ASTMH
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

VOLUME 109 OCTOBER 2023 NUMBER 4 SUPPLEMENT

2023 Annual Meeting | October 18-22

HYATT REGENCY CHICAGO | CHICAGO, ILLINOIS USA

PROGRAM BOOK

FROM EVIDENCE *to* ACTION

Supplement to
American Journal of Tropical Medicine and Hygiene

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Welcome to the 2023 Annual Meeting! We are thrilled to have you join us for this gathering of friends and colleagues, stimulating research, clinical advances, special lectures guests and additional exciting events. For those of you unable to attend in person, we hope you can join us virtually via the curated sessions that will be livestreamed throughout the meeting.

Either way, do not miss this year's opening keynote by Ambassador John Nkengasong. Dr. Nkengasong was recently selected to lead the new U.S. Bureau of Global Heath Security and Diplomacy, and brings a unique and profound mix of knowledge and experience in global health, courage, compassion and leadership skills to his new position and our meeting.

Other invited speakers include Dr. Kemi Ogundipe, pediatric advisor for Médecins Sans Frontières (MSF), who will deliver this year's Commemorative Lecture; and this year's Fred L. Soper Lecturer, Dr. Gagandeep Kang, a microbiologist and virologist who joined Bill & Melinda Gates Foundation in May as Director EDGE, Global Health.

Our Sunday plenary will highlight the work of President Jimmy Carter throughout his wonderful career, with speakers from The Carter Center and elsewhere. The annual Alan J. Magill Malaria Eradication Symposium will focus on use of vector control to advance malaria elimination. And we have something different planned for the President's Address—a panel of Past Presidents from ASTMH, who will lead an informal discussion on the state of the world of tropical medicine and global health.

Other highlights include a book panel with Daisy Hernandez, author of *The Kissing Bug—A True Story about an Insect, a Family and a Nation's Neglect of a Deadly Disease;* and a tour of our Chicago home for the week that features artwork by the fantastic American sculptor Richard Hunt, led by Jesus Lopes from his studio.

All of this plus the cutting-edge content on malaria, protozoa, viral and bacterial infections, clinical tropical medicine, issues in global health, and the rest you have come to expect. Find it all on the ASTMH meeting app, available for free at the App Store and Google Play. And be sure to visit our sponsors and exhibitors. They make all of the above possible and will host the Opening Reception, with complimentary food and drink.

We look forward to seeing you there.

¡Bienvenidos a la Reunión Anual de 2023! Estamos encantados de que se una a nosotros en esta reunión de amigos y colegas, investigaciones estimulantes, avances clínicos, invitados a conferencias especiales y eventos emocionantes adicionales. Para aquellos de ustedes que no puedan asistir en persona, esperamos que puedan participar virtualmente a través de las sesiones seleccionadas que se transmitirán en vivo durante la reunión.

De cualquier manera, no se pierda el discurso de apertura de este año a cargo del Embajador John Nkengasong. El Dr. Nkengasong fue seleccionado recientemente para dirigir la nueva Oficina de Diplomacia y Seguridad de la Salud Global de los EE. UU., y aporta una combinación única y profunda de conocimiento y experiencia en salud global, coraje, compasión y habilidades de liderazgo a su nuevo puesto y a nuestra reunión.

Otros oradores invitados incluyen al Dr. Kemi Ogundipe, asesor pediátrico de Médicos Sin Fronteras (MSF), quien pronunciará la Conferencia Conmemorativa de este año; y el orador Fred L. Soper de este año, el Dr. Gagandeep Kang, microbiólogo y virólogo que se unió a la Fundación Bill y Melinda Gates en mayo como Director EDGE, Salud Global.

En nuestra sesión plenaria del domingo se destacará el trabajo del presidente Jimmy Carter a lo largo de su maravillosa carrera, con oradores del Centro Carter y otros lugares. El Simposio anual sobre erradicación de la malaria Alan J. Magill se centrará en el uso del control de vectores para avanzar en la eliminación de la malaria. Y tenemos algo diferente planeado para el discurso del Presidente: un panel de ex presidentes de ASTMH, que dirigirán una discusión informal sobre el estado del mundo de la medicina tropical y la salud global.

Otros aspectos destacados incluyen un panel sobre libros con Daisy Hernandez, autora de *The Kissing Bug—A True Story about an Insect, a Family and a Nation's Neglect of a Deadly Disease;* y un recorrido por nuestra casa en Chicago durante la semana que presenta obras de arte del fantástico escultor estadounidense Richard Hunt, dirigido por Jesús Lopes desde su estudio.

Todo esto más el contenido de vanguardia sobre malaria, protozoos, infecciones virales y bacterianas, medicina tropical clínica, problemas de salud global y el resto que espera. Encuéntrelo todo en la aplicación para reuniones de ASTMH, disponible de forma gratuita en App Store y Google Play. Y asegúrese de visitar a nuestros patrocinadores y expositores. Ellos hacen posible todo lo anterior y serán los anfitriones de la recepción de apertura, con comida y bebida de cortesía.

Esperamos verlos allí.

Bienvenue à la réunion annuelle de 2023 ! Nous sommes ravis de vous accueillir dans le cadre de ce rassemblement d'amis et de collègues, pour des recherches stimulantes, des progrès cliniques, les conférences spéciales et d'autres événements passionnants. Pour ceux d'entre vous qui ne pourront pas être présents en personne, nous espérons que vous pourrez vous joindre à nous virtuellement grâce aux sessions qui seront diffusées en direct tout au long de la réunion.

Quoi qu'il en soit, ne manquez pas le discours d'ouverture de cette année qui sera prononcé par l'ambassadeur John Nkengasong. Le Dr Nkengasong a récemment été choisi pour diriger le nouveau Bureau américain de la sécurité et de la diplomatie sanitaires mondiales. Il apporte à son nouveau poste et à notre réunion, un mélange unique et profond de connaissances et d'expérience en matière de santé mondiale, de courage, de compassion et de compétences en matière de leadership.

Parmi les autres orateurs invités, mentionnons le Dr Kemi Ogundipe, conseiller en pédiatrie pour Médecins Sans Frontières (MSF), qui donnera la conférence commémorative de cette année, et le conférencier Fred L. Soper de cette année, le Dr Gagandeep Kang, microbiologiste et virologue qui a rejoint la Fondation Bill et Melinda Gates en mai en tant que directeur du programme EDGE, Santé mondiale.

Notre séance plénière du dimanche mettra en lumière le travail du président Jimmy Carter tout au long de sa merveilleuse carrière, avec des intervenants de la Fondation Carter et d'ailleurs. Le symposium annuel Alan J. Magill sur l'éradication du paludisme se concentrera sur l'utilisation de la lutte antivectorielle pour faire progresser l'élimination du paludisme. Et nous avons prévu quelque chose de différent pour le discours du président : un groupe d'anciens présidents de l'American Society of Tropical Medicine and Hygiene (ASTMH), qui mèneront une discussion informelle sur l'état du monde de la médecine tropicale et de la santé mondiale.

Parmi les autres temps forts, citons une table ronde avec Daisy Hernandez, auteure de *The Kissing Bug-A True Story about an Insect, a Family and a Nation's Neglect of a Deadly Disease,* et une visite de notre maison de Chicago pour la semaine, qui présente des œuvres d'art du fantastique sculpteur américain Richard Hunt, sous la conduite de Jesus Lopes depuis son studio.

Tout cela, ainsi que du contenu de pointe sur le paludisme, les protozoaires, les infections virales et bactériennes, la médecine tropicale clinique, les problèmes de santé mondiale et tout le reste auquel vous vous attendez. Vous trouverez tout cela sur l'application de réunion de l'ASTMH, disponible gratuitement sur l'App Store et Google Play. Et assurez-vous de visiter nos sponsors et exposants. Ils rendent tout cela possible et organiseront la réception d'ouverture, avec des repas et des boissons gratuits.

Au plaisir de vous y voir.

Christine A. Petersen, DVM, PhD, FASTMH
Scientific Program Chair

Stephen Popper, ScD
Associate Scientific Program Chair

Daniel G. Bausch, MD, MPH&TM, FASTMH
President

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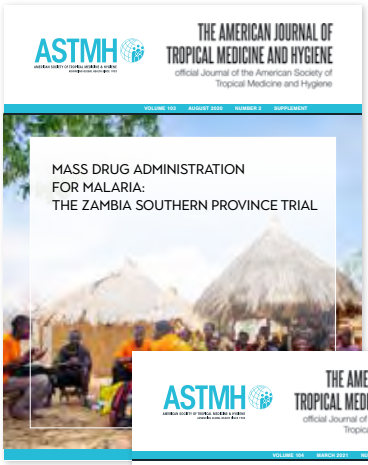
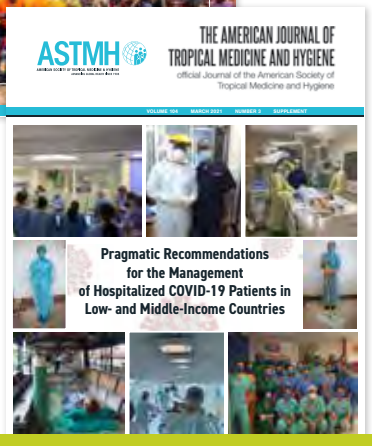
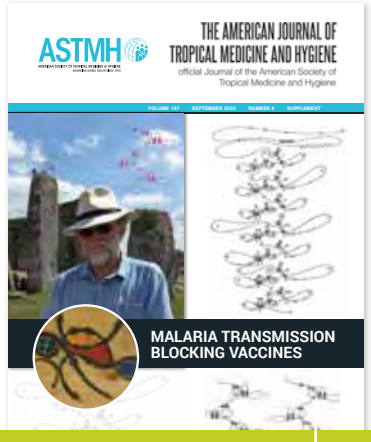
Throughout the year, the *American Journal of Tropical Medicine and Hygiene* publishes special supplemental issues devoted to a specific topic in the field.







To view all supplements, visit ajtmh.org and click on “Issues”

Supplements contain an average of 10-15 articles plus a foreword or editorial to introduce the papers and provide some perspective on the topic.

Supplement coordinators are responsible for securing the content of the issue, with approval from the AJTMH Editor-in-Chief.

Interested in a supplement? Contact Alison Jaeb, Managing Editor and Publisher, at journal@ajtmh.org.

RICHARD J. DURBIN
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United States Senate

WASHINGTON, DC 20510-1304

October 18, 2023

Dear Friends:

It is my pleasure to welcome you to the American Society of Tropical Medicine and Hygiene's 2023 Annual Meeting. This gathering is a special opportunity to recognize the American Society's work to fortify the global health workforce and strengthen public health infrastructure.

For more than a century, the American Society of Tropical Medicine and Hygiene has been dedicated to reducing the burden of tropical infectious diseases and improving global health. It has provided important insights and information on pandemic preparedness and response, as well as how to best tackle existing and emerging infectious disease threats. I applaud your commitment to generating and sharing scientific evidence, improving health policies and practices, and advocating for investment in tropical medicine and global health research.

Again, I would like to extend my warmest wishes to today's attendees for your dedication to the American Society of Tropical Medicine. Congratulations on all your work and achievements.

Very truly yours,

Richard J. Durbin
United States Senator

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American Society of Tropical Medicine and Hygiene
241 18th Street South, Suite 501
Arlington, VA 22202 USA

October 18, 2023

Dear Members of the American Society of Tropical Medicine and Hygiene (ASTMH):

I am pleased to welcome you to the annual ASTMH meeting.

Founded in 1903, the ASTMH has been a beacon of hope and progress in the field of tropical medicine and hygiene. For over a century, your efforts have contributed to the reduction of the global burden of tropical infectious diseases and the improvement of global health. The impact of your work extends beyond the confines of laboratories and research institutions; it reaches communities, nations and continents.

As a member of the United States Senate, I am deeply committed to supporting initiatives that promote global health and scientific advancement. Your work aligns with my values and priorities, and I am proud to stand with you in the pursuit of a healthier and more equitable world.

I join the community in thanking you for this special event. Organizations such as the American Society of Tropical Medicine and Hygiene truly are instrumental in improving the lives of others.

I wish you all further success in the future.

Sincerely,

Tammy Duckworth
United States Senator

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William A. Petri, Jr. in memory of William A. Petri, Sr.

All individuals who made a donation during registration and throughout the year.

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The American Society of Tropical Medicine and Hygiene, founded in 1903, is the largest international scientific organization of experts dedicated to reducing the worldwide burden of tropical infectious diseases and improving global health. We accomplish this through generating and sharing scientific evidence, informing health policies and practices, fostering career development, recognizing excellence, and advocating for investment in tropical medicine/global health research.

Attendee Benefits! Included in Registration!

In-Person attendees have access to the On-Demand content until October 1, 2024.

Livestream registrants will have access to livestreamed On-Demand content only.

(ePosters available through April 30, 2024)

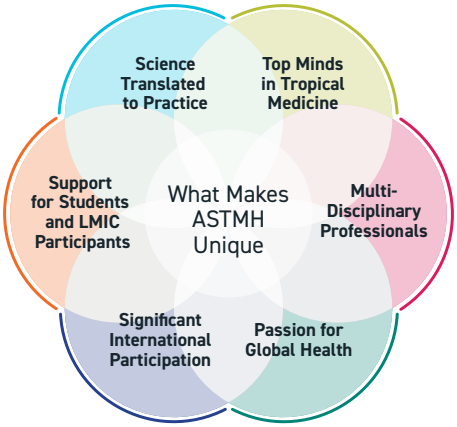
JOIN TODAY!

Membership

Join ASTMH or Renew Your Membership

Become part of the global health community dedicated to reducing the worldwide burden of tropical infectious diseases and improving global health.

Join online here or visit the TropMed Hub in the Exhibit Hall for more information.



Advantages of Membership

- Active specialty subgroups in the areas of clinical tropical medicine, medical entomology, virology, global health and molecular, cellular and immunoparasitology
- Online access to the *American Journal of Tropical Medicine and Hygiene*, the foremost peer-reviewed publication for communicating new findings in tropical medicine
- Reduced publishing fees in the *American Journal of Tropical Medicine and Hygiene*

Affiliate Membership

Affiliate Membership offers universities with programs in clinical and basic tropical medicine, infectious diseases and global public health the opportunity to join and lend their voice to a Society that is a leader in its field. Affiliate membership is particularly focused on bringing together undergraduate and graduate students, postdocs, medical residents and fellows in these programs so that they can take full advantage of all that ASTMH offers. **Click here** for more information.

Educational Opportunities

- Reduced registration rates for the Annual Meeting, the premier gathering of tropical medicine professionals, featuring the latest cutting-edge research and program developments via symposia, plenary and interactive sessions, contributed and invited abstracts, and impromptu networking opportunities
- Reduced rates for the Update Course in Clinical Tropical Medicine and Travelers' Health
- Examination Leading to a CTropMed® — Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health
- Unlimited access to GOTropMEd, the ASTMH Global Online Tropical Medical Education website

Professional Development Opportunities

- Funding, fellowship and sponsorship opportunities tailored to members' specific research and clinical needs
- Annual Meeting: the premier gathering of tropical medicine professionals
- Access to leading minds working and studying in tropical medicine today; educational webinars; a professional network
- Annual awards and scholarships for excellence across disciplines
- Members recognized as leaders in the tropical medicine and hygiene field
- Opportunities for leadership and skills-building through Board, subgroup and committee participation

Welcome to Our Members from Low and Lower-Middle Income Countries!

Reduced Regular Membership Dues for Low and Lower-Middle Income Countries ($25)

This is open to all citizens and legal residents of World Bank Low and Lower-Middle Income Countries and WHO/HINARI classification countries of A & B. Members must be permanent residents in their country of citizenship. Visiting researchers or others on short-term assignments do not qualify.

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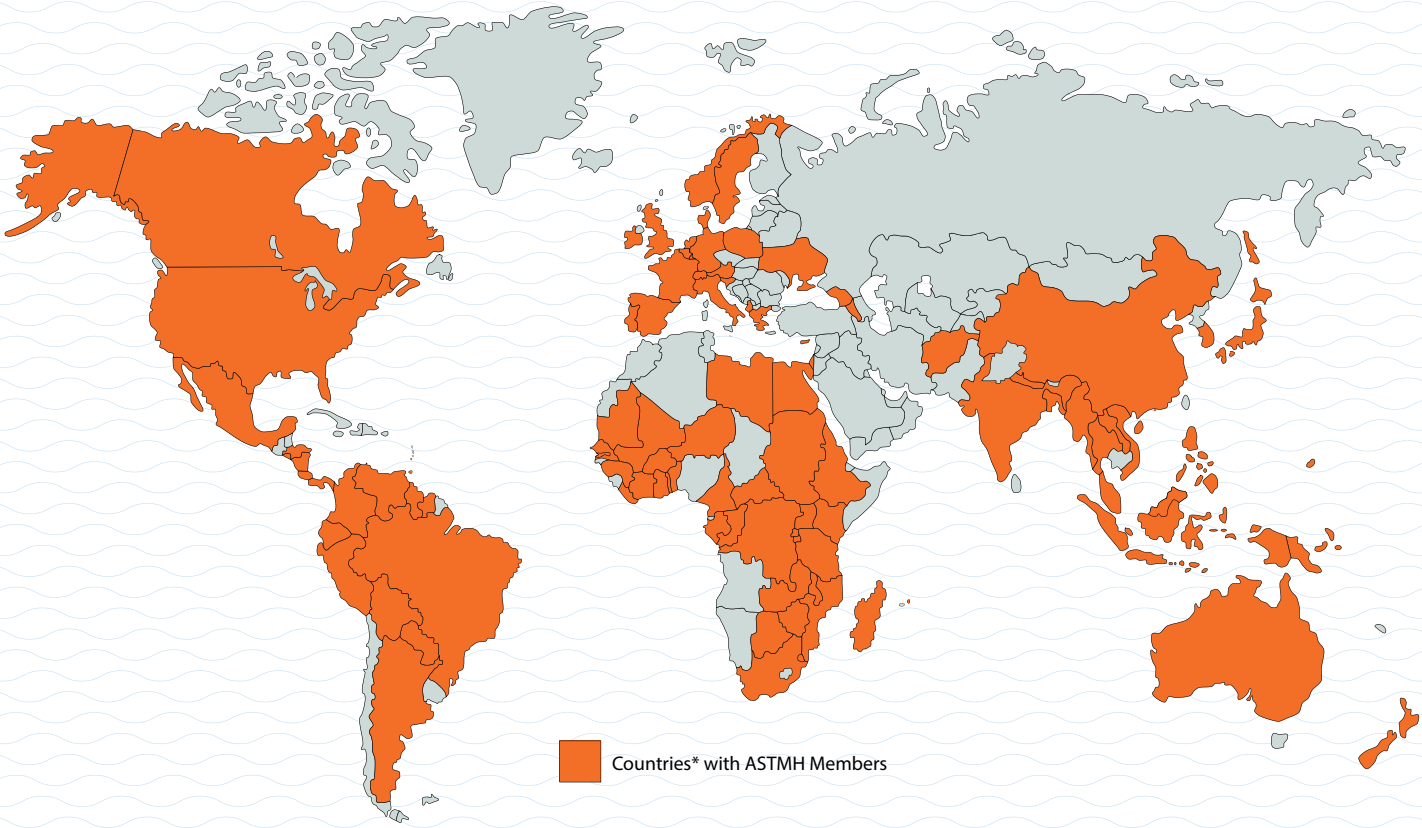

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ASTMH membership means access to research on the latest diseases and treatments, a standing within your global community, learning about clinical cases and field work and finding collaborators.

BUILD YOUR PROFESSIONAL NETWORK

Connect with respected leaders in the field. Whether in person at the Annual Meeting, through the Society's five subgroups or social media, members stay in touch to share the latest data, engage in scientific discourse and collaborate on Society activities.

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6:15–8:00 p.m. CDT

Crystal Ballroom A
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Wednesday, October 18, 2023

	Riverside Center – Exhibit Level (East Tower)	Grand Ballroom – Ballroom Level (East Tower)	Grand Hall J – Ballroom Level (East Tower)	Roosevelt 3B - Concourse Level (East Tower)	DuSable - Third Floor (West Tower)	Michigan 3 – Concourse Level (East Tower)	Plaza Ballroom - Lobby Level (East Tower)	Skyway 260 – Skyway Level (East Tower)	Columbian – Concourse Level (West Tower)	Crystal Ballroom A – Lobby Level (West Tower)
8 – 8:30 a.m.										
8:30 – 9 a.m.										
9 – 9:30 a.m.			Young Investigator Award Session A P. 85	Young Investigator Award Session B P. 86		Global Health Pre-Meeting Course: Effectively Communicating in Global Health: The Science of Public Engagement and Lessons from the Field P. 83	Clinical Pre-Meeting Course: Fever in the Tropics P. 84			
9:30 – 10 a.m.										
10 – 10:30 a.m.										
10:30 – 11 a.m.										
11 – 11:30 a.m.					ACCTMTH Clinical Research Award Session P. 93					
11:30 a.m. – Noon										
Noon – 12:30 p.m.										
12:30 – 1 p.m.										
1 – 1:30 p.m.										First-Time Attendee Orientation P. 95
1:30 – 2 p.m.										
2 – 2:30 p.m.										
2:30 – 3 p.m.										
3 – 3:30 p.m.										
3:30 – 4 p.m.								ACME Council Meeting		
4 – 4:30 p.m.									ACGH Council Meeting	
4:30 – 5 p.m.										
5 – 5:30 p.m.										
5:30 – 6 p.m.		LIVE STREAMING Opening Plenary Session and Awards Program P. 97								
6 – 6:30 p.m.										
6:30 – 7 p.m.										
7 – 7:30 p.m.	Opening Reception and Exhibits									
7:30 – 8 p.m.										
8 – 8:30 p.m.										
8:30 – 9:30 p.m.										

Wednesday, October 18, 2023

	Crystal Ballroom C – Lobby Level (West Tower)	Regency Ballroom A – Ballroom Level (West Tower)	Regency Ballroom B – Ballroom Level (West Tower)	Regency Ballroom C – Ballroom Level (West Tower)	Regency Ballroom D – Ballroom Level (West Tower)	Atlanta – Ballroom Level (West Tower)	Gold Coast - Concourse Level (West Tower)	McCormick – Third Floor (West Tower)	
8 – 8:30 a.m.									
8:30 – 9 a.m.									
9 – 9:30 a.m.		Young Investigator Award Session C P. 87	Young Investigator Award Session D P. 89	Young Investigator Award Session E P. 90	Young Investigator Award Session F P. 91				
9:30 – 10 a.m.									
10 – 10:30 a.m.									
10:30 – 11 a.m.									
11 – 11:30 a.m.						ACAV SIE Subcommittee			
11:30 a.m. – Noon									
Noon – 12:30 p.m.						ACAV SIRACA Subcommittee			
12:30 –1 p.m.									
1 – 1:30 p.m.									
1:30 – 2 p.m.									
2 – 2:30 p.m.						ACAV SALS Subcommittee			
2:30 – 3 p.m.	Student Reception								
3 – 3:30 p.m.									
3:30 – 4 p.m.						ACAV Council Meeting	ACMCIP Council Meeting	Clinical Group Council Meeting	
4 – 4:30 p.m.									
4:30 – 5 p.m.									
5 – 5:30 p.m.									
5:30 – 6 p.m.									
6 – 6:30 p.m.									
6:30 – 7 p.m.									
7 – 7:30 p.m.									
7:30 – 8 p.m.									
8 – 8:30 p.m.									
8:30 – 9:30 p.m.									

In-Person attendees have access to the On-Demand content until October 1, 2024.

Livestream registrants will have access to livestreamed On-Demand content only.

(ePosters available through April 30, 2024)

Thursday, October 19, 2023

LIVE STREAMING

	Riverside Center – Exhibit Level (East Tower)	Riverside Center – Exhibit Level (East Tower)	Grand Hall GHI – Ballroom Level (East Tower)	Grand Ballroom A – Ballroom Level (East Tower)	Grand Ballroom B – Ballroom Level (East Tower)	Grand Hall J – Ballroom Level (East Tower)	Grand Ballroom CDEF – Ballroom Level (East Tower)	Grand Hall K – Ballroom Level (East Tower)
8 – 8:30 a.m.				2 Symposium Pandemic Push to Elevate the Voice of HCPs P. 99	3 Scientific Session Malaria - Elimination P. 100	4 Scientific Session Global Health: Maternal, Community Health and Non-Communicable Diseases P. 101	5 Scientific Session Malaria - Dx: Challenges and Innovations P. 102	6 Scientific Session Kinetoplastida: Immunology, Invasion, Cellular and Molecular Biology P. 103
8:30 – 9 a.m.								
9 – 9:30 a.m.								
9:30 – 10 a.m.	Exhibit Hall Open Coffee Break 9:45 a.m. – 10:15 a.m.							
10 – 10:30 a.m.		Poster Session A Set-Up	Poster Session A Set-Up					
10:30 – 10:45 a.m.		Poster Session A Viewing	Poster Session A Viewing	14 Symposium Reaching Conflict-Affected Areas for NTDs, Malaria and Polio P. 110	15 Scientific Session ACMCIP: Parasite Immunology P. 111	16 Scientific Session Global Health: Use of Modelling to Improve Our Understanding of Disease Epidemiology and Intervention Implementation P. 111	17 Symposium Alan J. Magill Malaria Eradication: Using Vector Control to Advance Malaria Elimination P. 112	18 Scientific Session Kinetoplastida: Diagnosis and New Detection Tools P. 113
10:45 – 11 a.m.								
11 – 11:30 a.m.								
11:30 a.m. – Noon								
Noon – 12:30 p.m.	Exhibit Hall Open	Poster Session A Presentations P. 120	Poster Session A Presentations Late-Breaker Abstracts					
12:30 – 1 p.m.							28 Late-Breakers in Basic Science P. 173	29 Meet the Professors A P. 173
1 – 1:30 p.m.								
1:30 – 2 p.m.							30 Plenary Session II Fred L. Soper Lecture P. 174	
2 – 2:30 p.m.	Exhibit Hall Open Coffee Break 2:30 p.m. – 3 p.m.							
2:30 – 3 p.m.								
3 – 3:30 p.m.		Poster Session A Dismantle	Poster Session A Dismantle	31 Symposium Science under Assault P. 174	32 Symposium Approaching Malaria Elimination in Cambodia P. 175	33 Symposium Integrating Health Campaigns Delivers Intervention Coverage and Greater Sustainability P. 176	34 Scientific Session Malaria: Drug Development And Clinical Trials P. 176	35 Scientific Session ACMCIP: Protozoan Immunology P. 177
3:30 – 4 p.m.								
4 – 4:30 p.m.								
4:30 – 5 p.m.								
5 – 5:30 p.m.				44 Scientific Session Global Health: Global Health Security and Emerging Infectious Diseases P. 185	45 Symposium Diversity and Nonhuman Primate Malaria Parasites – Honoring Dr. William E. Collins P. 186	46 Symposium Innovations in Modelling and Analytics to Accelerate Development of a New Generation of Malaria Interventions P. 186	47 Symposium Enhancing Development and Evaluation of New Vector Control Technologies Through Social and Behavioral Research P. 187	48 Scientific Session Kinetoplastida: Epidemiology P. 188
5:30 – 6 p.m.								
6 – 6:30 p.m.								
6:30 – 7 p.m.								
7 – 7:30 p.m.								
7:30 – 8 p.m.						58 Symposium Tropical Bookshelf Panel with Author Daisy Hernandez P. 194		
8 – 8:30 p.m.								
8:30 – 9 p.m.								
9 – 9:15 p.m.								

Thursday, October 19, 2023

	Grand Hall L – Ballroom Level (East Tower)	Plaza Ballroom – Lobby Level (East Tower)	Crystal Ballroom A – Lobby Level (West Tower)	Crystal Ballroom B – Lobby Level (West Tower)	Regency Ballroom A – Ballroom Level (West Tower)	Regency Ballroom B – Ballroom Level (West Tower)	Regency Ballroom C – Ballroom Level (West Tower)	Regency Ballroom D – Ballroom Level (West Tower)
8 – 8:30 a.m.	7 Symposium Reaching Indigenous Populations with NTD Interventions P. 104	8 Symposium Strategies for Prevention and Control of Typhoid and Cholera Outbreaks P. 104	9 Scientific Session Clinical Tropical Medicine: Pediatrics P. 105	10 Symposium A Changing World - Practice in Travel Medicine P. 106	11 Scientific Session Viruses: Field Studies of Viruses P. 107	12 Symposium Spillover: Assessing the Risk and Preparing for Disease X P. 108	13 Symposium Spotted Fever Rickettsiosis: A Globally Neglected Cause of Acute Febrile Illness Hospitalizations P. 108	13A Symposium Locally-Acquired Mosquito-Transmitted Malaria in the U.S. P. 109
8:30 – 9 a.m.								
9 – 9:30 a.m.								
9:30 – 10 a.m.								
10 – 10:30 a.m.								
10:30 – 10:45 a.m.	19 Symposium Overcoming the LF and Oncho Cliff to Accelerate Elimination of Both Diseases P. 114	20 Scientific Session Bacteriology: Enteric Infections P. 114	21 Symposium Renal Health in the Tropics P. 115	22 Symposium Antimicrobial Stewardship in LMICs P. 116	23 Scientific Session Viruses - Evolution and Genomic Epidemiology P. 116	24 Scientific Session One Health I P. 117	25 Scientific Session Ectoparasite-Borne Diseases I P. 118	26 Symposium Antimalarials: Tackling P. falciparum Resistance through Use of Irresistible Compounds P. 119
10:45 – 11 a.m.								
11 – 11:30 a.m.								
11:30 a.m. – Noon								
Noon – 12:30 p.m.								
12:30 –1 p.m.								
1 – 1:30 p.m.								
1:30 – 2 p.m.								
2 – 2:30 p.m.								
2:30 – 3 p.m.								
3 – 3:30 p.m.	36 Symposium Neurocysticercosis: An Inflammatory Topic P. 178	37 Scientific Session Bacteriology: Cholera P. 179	38 Symposium Clinical Pearls in the Diagnosis and Management of Tropical Infections P. 179	39 Clinical Group (ACCTMTH) I: Marcolongo Lecture: Dengue - The Latest in Vaccines and Other Prevention Tools P. 180	40 Scientific Session Viruses: Immunology P. 181	41 Symposium NTDs at Home: Leishmania spp in the USA P. 182	42 Symposium Spatial Repellents to Prevent Mosquito-Borne Disease P. 183	43 Symposium Targeting "Gaps in Protection" to Prevent Malaria in Hard-to-Reach Communities P. 183
3:30 – 4 p.m.								
4 – 4:30 p.m.								
4:30 – 5 p.m.								
5 – 5:30 p.m.								
5:30 – 6 p.m.	49 Symposium The Path to Reach Those Left Behind by MDA and Vaccination Programs P. 188	50 Scientific Session Bacteriology: Infection-Malnutrition Interplay P. 189	51 Symposium Clinical Development of Monoclonal Antibodies That Target Malaria Sporozoites P. 190	52 Symposium Clinical Group (ACCTMH) II: Ask the Tropical Medicine Consultant P. 190	53 Scientific Session Viruses: Diagnostics, Therapeutics and Antivirals P. 191	54 Scientific Session One Health II P. 192	55 Scientific Session Mosquitoes – Bionomics, Behavior and Surveillance P. 192	56 Symposium Genetic and Genomic Approaches to Elucidate Selection and Drive Malaria Elimination P. 193
6 – 6:30 p.m.								
6:30 – 7 p.m.								
7 – 7:30 p.m.								
7:30 – 8 p.m.								
8 – 8:30 p.m.								
8:30 – 9 p.m.								
9 – 9:15 p.m.								

Friday, October 20, 2023

LIVE STREAMING

	Riverside Center – Exhibit Level (East Tower)	Riverside Center – Exhibit Level (East Tower)	Grand Hall GHI – Ballroom Level (East Tower)	Grand Ballroom A – Ballroom Level (East Tower)	Grand Ballroom B – Ballroom Level (East Tower)	Grand Hall J – Ballroom Level (East Tower)	Grand Ballroom CDEF – Ballroom Level (East Tower)	Grand Hall K – Ballroom Level (East Tower)
7 – 7:30 a.m.						Sponsored Symposum Chikungunya Virus: A Growing Preventable Risk to Travelers in a Warming Planet P. 54		Sponsored Symposium Climate Change and Malaria Elimination: Perspectives from the Ground P. 54
7:30 – 8 a.m.								
8 – 8:30 a.m.								
8:30 – 9 a.m.								
9 – 9:30 a.m.							59 Plenary Session III Commemorative Lecture P. 196	
9:30 – 10 a.m.	Exhibit Hall Open Coffee Break 9:45 a.m. – 10:15 a.m.							
10 – 10:30 a.m.		Poster Session B Set-Up	Poster Session B Set-Up					
10:30 – 10:45 a.m.		Poster Session B Viewing	Poster Session B Viewing	60 Symposium A Scientist's Cheat Sheet for Washington, DC P. 197	61 Symposium Benefits and Challenges of WHO Chemoprevention Guidelines Giving Increased Autotomy for Decision-Making to Countries P. 197	62 Symposium Cash for Climate? The Role of Funders and Upstream Stakeholders in Promoting Environmental Sustainability in Global Health Research P. 198	63 Scientific Session Malaria: Antimalarial Resistance and Chemotherapy P. 199	64 Symposium Advances in Treatment and Diagnostics for Disease Caused by Pathogenic Free - Living Amoebae P. 200
10:45 – 11 a.m.								
11 – 11:30 a.m.								
11:30 a.m. – Noon								
Noon – 12:30 p.m.	Exhibit Hall Open	Poster Session B Presentations P. 207	Poster Session B Presentations Late Breaker Abstracts			74 Late-Breakers in Clinical and Applied Sciences P. 261	75 Late- Breakers in Malaria P. 261	
12:30 – 1 p.m.								
1 – 1:30 p.m.								
1:30 – 2 p.m.		Poster Session B Viewing	Poster Session B Viewing	76 Symposium ACGH I: Effective Communication: Lessons from the Field P. 261	77 Symposium ACMCIP: Molecular Mechanisms of Transition between Acute and Chronic Parasitic Infections P. 262	78 Symposium Community Engagement in Control and Prevention of Cutaneous Leishmaniasis: The ECLIPSE Experience P. 262	79 Scientific Session Viruses: Epidemiology and Transmission Biology P. 263	80 Scientific Session Kinetoplastida: Genomics, Proteomic and Metabalomics, Molecular Therapeutic Targets, Drug Delivery and Discovery P. 264
2 – 2:30 p.m.								
2:30 – 3 p.m.								
3 – 3:30 p.m.								
3:30 – 4 p.m.	Exhibit Hall Open Coffee Break 3:30 p.m. – 4 p.m.							
4 – 4:30 p.m.		Poster Session B Dismantle	Poster Session B Dismantle	89 Symposium ACGH II: How to Sustainably Democratize/ Decolonize Global Health P. 271	90 Symposium ACMCIP II: Trager, Trainees and Takeoff P. 271	91 Symposium From a Single Dataset to a Million Patients; Harmonize IPD to Generate New Evidence in an Open Science Framework P. 272	92 Scientific Session Mosquitoes - Biology and Genetics of Insecticide Resistance P. 273	93 Symposium Leveraging Mathematical Modeling to Inform Decision Making for Control of NTDs P. 274
4:30 – 5 p.m.								
5 – 5:30 p.m.								
5:30 – 6 p.m.								
6 – 6:30 p.m.								
6:30 – 7 p.m.						Sponsored Symposium The Role of Antivirals for Prevention and Treatment of Dengue P. 55		
7 – 7:30 p.m.								
7:30 – 8 p.m.								

Friday, October 20, 2023

	Grand Hall L – Ballroom Level (East Tower)	Plaza Ballroom – Lobby Level (East Tower)	Crystal Ballroom A – Lobby Level (West Tower)	Crystal Ballroom B – Lobby Level (West Tower)	Regency Ballroom A – Ballroom Level (West Tower)	Regency Ballroom B – Ballroom Level (West Tower)	Regency Ballroom C – Ballroom Level (West Tower)	Regency Ballroom D – Ballroom Level (West Tower)
7 – 7:30 a.m.			Sponsored Symposium Achieving Global Malaria Targets Relies on Quality Health Services: Lessons Learned and Results from PMI's Support for Quality Improvement of Healthcare Services for Malaria P. 53					
7:30 – 8 a.m.								
8 – 8:30 a.m.								
8:30 – 9 a.m.								
9 – 9:30 a.m.								
9:30 – 10 a.m.								
10 – 10:30 a.m.								
10:30 – 10:45 a.m.	65 Scientific Session Filariasis: Epidemiology and Control P. 201	66 Scientific Session Schistosomiasis: Immunology, Pathology, Molecular Biology, Diagnosis and Treatment P. 201	67 Symposium Chagas Disease: Best Practices for Clinical Care P. 202	68 Meet the Professors B P. 203	69 Scientific Session Viruses: Vaccines, Clinical Trials and Immunity P. 203	70 Symposium Holistic Approaches: Integrating the Complexity of Natural Systems into Public Health Research and Decision Making P. 204	71 Scientific Session Arthropods/ Entomology - Other P. 205	72 Symposium Evidence and Lessons Learned from the Malaria Vaccine Imprelementation Program (2019-23) P. 205
10:45 – 11 a.m.								
11 – 11:30 a.m.								
11:30 a.m. – Noon								
Noon – 12:30 p.m.								
12:30 –1 p.m.								
1 – 1:30 p.m.								
1:30 – 2 p.m.								
2 – 2:30 p.m.	81 Scientific Session Filariasis: Clinical, Immunology and Diagnosis P. 265	82 Scientific Session Schistosomiasis: Epidemiology and Control P. 265	83 Symposium Reimagining the Continuum of Care for Severe Malaria Patients P. 266	84 Symposium What's New in Clinical Tropical Medicine Literature? P. 267	85 Symposium Bridging the Know-Do Gap: Using Implementation Science to Adapt Evidence-Based Interventions and Improve Uptake P. 267	86 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis I P. 268	87 Symposium ACME I: Invasive Arthropods and Public Health Impact P. 269	88 Symposium Integrated Malaria Molecular Surveillance (iMMS) and Strengthening the Capacity of National Laboratories and Regional Hubs P. 269
2:30 – 3 p.m.								
3 – 3:30 p.m.								
3:30 – 4 p.m.								
4 – 4:30 p.m.	94 Scientific Session Bacteriology: Other Bacterial Infections P. 274	95 Symposium More than a Guideline: Using the WHO 2030 NTD Roadmap to End Neglect of STH P. 275	96 Symposium CDC Yellow Book Travel Medicine Update P. 276		97 Symposium Wolbachia Vector Control: Next Steps P. 276	98 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis II P. 277	99 Symposium ACME II: Awards, Business Meeting and Hoogstraal Medal Presentation P. 278	100 Scientific Session Malaria: Epidemiology: Intervention Impact on Infectious Disease and Mortality P. 278
4:30 – 5 p.m.								
5 – 5:30 p.m.								
5:30 – 6 p.m.								
6 – 6:30 p.m.								
6:30 – 7 p.m.			Sponsored Symposium PfHRP2/3 Deletion: A Call to Action P. 56	101 Speed-Networking Session P. 280				
7 – 7:30 p.m.								
7:30 – 8 p.m.								

Saturday, October 21, 2023

LIVE STREAMING

	Riverside Center – Exhibit Level (East Tower)	Riverside Center – Exhibit Level (East Tower)	Grand Hall GHI – Ballroom Level (East Tower)	Grand Ballroom A – Ballroom Level (East Tower)	Grand Ballroom B – Ballroom Level (East Tower)	Grand Hall J – Ballroom Level (East Tower)	Grand Ballroom CDEF – Ballroom Level (East Tower)	Grand Hall K – Ballroom Level (East Tower)
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 8:30 a.m.				102 Scientific Session Global Health: Maternal, Newborn and Child Health P. 281	103 Scientific Session ACMCIP: Protective Mechanisms P. 282	104 Symposium Typhoid Conjugate Vaccine: Clinical Studies to Country Introduction P. 283	105 Symposium Mechanisms of Protection Induced by RTS,S/AS01 Vaccine and ID of Host Signatures Influencing Vaccine Efficacy to Inform Next-Gen Vaccines P. 284	106 Scientific Session Integrated Control Measures for NTDs I P. 285
8:30 – 9 a.m.								
9 – 9:30 a.m.								
9:30 – 10 a.m.	Exhibit Hall Open Coffee Break 9:45 a.m. – 10:15 a.m.							
10 – 10:30 a.m.		Poster Session C Set-Up	Poster Session C Set-Up					
10:30 – 10:45 a.m.		Poster Session C Viewing	Poster Session C Viewing				115 Plenary Session IV Presidents' Address: A Forward Look P. 292	
10:45 – 11 a.m.								
11 – 11:30 a.m.	Exhibit Hall Open	116 Poster Session C Presentations P. 292	116 Poster Session C Presentations Late-Breaker Abstracts					
11:30 a.m. – Noon							117 Symposium Demystifying NIH Grants P. 345	118 Meet the Professors C P. 345
Noon – 12:30 p.m.								
12:30 – 1 p.m.		Poster Session C Viewing	Poster Session C Viewing	120 Scientific Session Global Health: Maternal, Newborn and Child Health and Nutrition P. 345	121 ACMCIP: Parasite Drug Resistance, Genomics and Biomarkers P. 346	122 ASTMH Annual Business Meeting P. 347	123 Symposium To Infinity and Beyond: The Tale of Eradication, Why It Matters and the Lessons Learned from Smallpox, Rinderpest, Polio and Guinea Worm P. 347	124 Symposium Applications of Novel Functional Genomic Approaches in P. falciparum to Elucidate Antimalarial Action P. 348
1 – 1:30 p.m.								
1:30 – 2 p.m.								
2 – 2:30 p.m.								
2:30 – 3 p.m.								
3 – 3:30 p.m.		Poster Session C Dismantle	Poster Session C Dismantle	133 Symposium Diversity, Equity and Inclusion in the Global Health Work Force P. 355	134 Scientific Session ACMCIP: Parasite Biology - Genetic Approaches P. 355	135 Symposium Integrating Malaria into PHEOCs to Support Burden Reduction and Elimination P. 356	136 Scientific Session Malaria: Surveillance and Data Utilization P. 357	137 Scientific Session Integrated Control Measures for NTDs II P. 358
3:30 – 4 p.m.								
4 – 4:30 p.m.								
4:30 – 5 p.m.								
5 – 5:30 p.m.								
5:30 – 6 p.m.								
6 – 6:30 p.m.								
6:30 – 7 p.m.								
7 – 7:30 p.m.								
7:30 – 8 p.m.								

Saturday, October 21, 2023

	Grand Hall L – Ballroom Level (East Tower)	Plaza Ballroom – Lobby Level (East Tower)	Crystal Ballroom A – Lobby Level (West Tower)	Crystal Ballroom B – Lobby Level (West Tower)	Regency Ballroom A – Ballroom Level (West Tower)	Regency Ballroom B – Ballroom Level (West Tower)	Regency Ballroom C – Ballroom Level (West Tower)	Regency Ballroom D – Ballroom Level (West Tower)
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 8:30 a.m.	107 Scientific Session Cestodes P. 285	108 Scientific Session ACMCIP: Disease Mechanisms P. 286	109 Scientific Session Malaria: Proteins to Populations: Transmission Biology across Scales P. 287	110 Scientific Session Clinical Tropical Medicine: Arboviral Infections P. 288	111 Symposium ACAV I: Business Meeting P. 289	112 Scientific Session WaSH-E: Interventions P. 289	113 Scientific Session Ectoparasite-Borne Diseases II P. 290	114 Symposium Many Paths to P. falciparum Artemisinin Resistance P. 291
8:30 – 9 a.m.								
9 – 9:30 a.m.								
9:30 – 10 a.m.								
10 – 10:30 a.m.								
10:30 – 10:45 a.m.								
10:45 – 11 a.m.								
11 – 11:30 a.m.								
11:30 a.m. – Noon	119 Late-Breakers in Virology P. 345							
Noon – 12:30 p.m.								
12:30 –1 p.m.								
1 – 1:30 p.m.	125 Scientific Session Nematodes P. 349	126 Symposium Immune Mechanisms in Parasitic Diseases: Lessons Learned from Controlled Human Infection Models P. 349	127 Symposium Update on Malaria Management in Travelers 2023 P. 350	128 Scientific Session Clinical Tropical Medicine: CNS Infections and HIV P. 351	129 Scientific Session Viruses: Viral Pathogenesis and Biology P. 351	130 Symposium WASHing away Guinea Worm P. 352	131 Symposium Influence of Arboviruses on Mosquitoes Journey from Host-Seeking to Blood-Feeding P. 353	132 Symposium Effectiveness and Efficacy of Chemoprevention for Children under Five P. 354
1:30 – 2 p.m.								
2 – 2:30 p.m.								
2:30 – 3 p.m.								
3 – 3:30 p.m.	138 Symposium Drug Development in Filarial Infections: Current Achievements and Challenges P. 359	139 Symposium Turning the Tide for Women with Schistosomes P. 360	140 Scientific Session Malaria: Vaccine Development and Testing P. 360	141 Symposium Lassa Fever and Leptospirosis P. 361	142 Symposium ACAV II: The Dengue Endgame: Imagining a World with Dengue Control P. 361	143 Scientific Session WaSH-E: Outcomes P. 362	144 Scientific Session Mosquitoes - Biology, Physiology and Immunity P. 363	145 Symposium Surveillance for Malaria Elimination: What Does It Take to Be Sure of Zero Infections? P. 364
3:30 – 4 p.m.								
4 – 4:30 p.m.								
4:30 – 5 p.m.								
5 – 5:30 p.m.								
5:30 – 6 p.m.								
6 – 6:30 p.m.								
6:30 – 7 p.m.								
7 – 7:30 p.m.								
7:30 – 8 p.m.								

Miss a Session?

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Sunday, October 22, 2023

	Grand Ballroom Foyer - Ballroom Level (East Tower)	Crystal Ballroom Foyer - Lobby Level (West Tower)	Grand Ballroom A – Ballroom Level (East Tower)	Grand Ballroom B – Ballroom Level (East Tower)	Grand Hall J – Ballroom Level (East Tower)	Grand Ballroom CDEF – Ballroom Level (East Tower)	Grand Hall K – Ballroom Level (East Tower)	Grand Hall L – Ballroom Level (East Tower)
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 8:30 a.m.			147 Scientific Session Global Heath: ICT Innovations for Improved Health Care Service Delivery P. 365	148 Scientific Session Malaria: Prevention I P. 366	149 Symposium Diseases, Conflict and Health Security P. 367	150 Scientific Session Malaria: Pathogenesis P. 368	151 Symposium Overcoming the Challenges of PC-NTD Hotspots P. 368	152 Symposium Regulatory Principles for Vaccine Development: US FDA Perspective P. 369
8:30 – 9 a.m.								
9 – 9:30 a.m.								
9:30 – 10 a.m.								
10 – 10:30 a.m.	Coffee Break	Coffee Break						
10:30 – 10:45 a.m.						160 Plenary Session V: Waging Peace, Fighting Disease and Building Hope: A Tribute to President and Mrs. Carter P. 375		
10:45 – 11 a.m.								
11 – 11:30 a.m.								
11:30 a.m. – Noon			161 Scientific Session Global Health: Malaria and NTDs P. 376	162 Scientific Session Malaria: Prevention II P. 377	163 Symposium Making Surveillance as an Intervention Work P. 378	164 Symposium Building Malaria Modeling Capacity: Training a New Generation of Mathematical Modellers in Sub-Saharan Africa P. 378	165 Symposium The Role of Entomology in Onchocerciasis and Implication for Verification of LF Elimination P. 379	166 Symposium Cryptosporidiosis: New Science to Combat a Leading Cause of Early Childhood Diarrhea P. 380
Noon – 12:30 p.m.								
12:30 – 1 p.m.								
1 – 1:30 p.m.								
1:30 – 2 p.m.								
2 – 2:30 p.m.								

Miss a Session?

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- Learn about sponsors and exhibitors participating in the Annual Meeting

Program Changes

- The session schedule is subject to change. Check the Meeting App for program changes.

Sunday, October 22, 2023

	Plaza Ballroom – Lobby Level (East Tower)	Crystal Ballroom A – Lobby Level (West Tower)	Crystal Ballroom B – Lobby Level (West Tower)	Regency Ballroom A – Ballroom Level (West Tower)	Regency Ballroom B – Ballroom Level (West Tower)	Regency Ballroom C – Ballroom Level (West Tower)	Regency Ballroom D – Ballroom Level (West Tower)
7 – 7:30 a.m.							
7:30 – 8 a.m.							
8 – 8:30 a.m.	153 Scientific Session Mosquitoes - Molecular Biology, Population Genetics and Genomics P. 370	154 Scientific Session Malaria: Genomics: Sharpening Tools to Guide Interventions and Uncover Biology P. 370	155 Symposium Countering the Wicked Problem of Bad Quality Medicines P. 372	156 Symposium Challenges and Solutions to Meet Sporadic Outbreaks of Deadly Pathogens in Resource-Limited Settings P. 372	157 Symposium Hot Topics in Clinical Mycobacteriology P. 373	158 Scientific Session Mosquitoes - Epidemiology and Vector Control I P. 374	159 Symposium Emerging Data on How to Best Use Primaquine and Tafenoquine for Radical Cure of *P. vivax* P. 374
8:30 – 9 a.m.							
9 – 9:30 a.m.							
9:30 – 10 a.m.							
10 – 10:30 a.m.							
10:30 – 10:45 a.m.							
10:45 – 11 a.m.							
11 – 11:30 a.m.							
11:30 a.m. – Noon	167 Symposium Development, Implementation and Evaluation of IMCI-Based Clinical Decision Support Algorithms P. 380	168 Symposium Innovations in Diagnostics Supporting Improved Pneumonia Case Management P. 381	169 Scientific Session Clinical Tropical Medicine: Neglected Diseases and Fever P. 382	170 Symposium Preparing for the Next Zika Outbreak P. 383	171 Scientific Session Malaria: Immunology: Covering the Spectrum of Naturally-Acquired and Vaccine-Induced Immunity P. 384	172 Scientific Session Mosquitoes - Epidemiology and Vector Control II P. 384	173 Symposium Plasmepsin Inhibitors: Novel Mechanisms Leading to an Antimalarial Development Candidate P. 385
Noon – 12:30 p.m.							
12:30 –1 p.m.							
1 – 1:30 p.m.							
1:30 – 2 p.m.							
2 – 2:30 p.m.							

Become an Affiliate Member of ASTMH

ASTMH
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

Affiliate Membership offers a cost-effective way for universities, university programs, NGOs, research groups and professional societies throughout the world that have an interest in clinical and basic tropical medicine, infectious diseases and global public health to join and lend their voice to a Society that is a leader in its field.

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Affiliate membership within these organizations and institutions is particularly focused on bringing together students, trainees and early-career professionals, and enabling them to take advantage of ASTMH benefits. For universities and other programs with few resources to devote to advocacy, this category offers the opportunity to join in the messaging of a trusted and respected scientific society.

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To access the livestream sessions visit **www.astmh.org**.

Visit the ePoster Hall Gallery

Visit the ePosters in the ePoster Hall Gallery. Posters will be available for viewing until April 30, 2024.

We encourage attendees to visit the ePoster Hall Gallery on the Livestream Portal throughout the day for On-Demand viewing. ePosters can be accessed beginning on Wednesday, October 18, and will be available for viewing through April 30, 2024.

Please note that ePoster presenters (i.e., poster presenters who do not attend in person in Chicago) are not expected to attend the Poster Sessions on the Livestream Portal during designated presentation timeframes. As such, poster viewing in the ePoster Hall Gallery will take place on an On-Demand basis. We encourage ePoster presenters and attendees to communicate in the ePoster Hall Gallery using typed messages via the Chat Box. Since poster viewing in the ePoster Hall Gallery will take place on an On-Demand basis, most Chat conversations will take place on an asynchronous basis rather than in real time.

No live verbal communication will take place between attendees and ePoster presenters in the ePoster Hall Gallery. Communication between attendees and ePoster presenters will take place via typed messages in a Chat Box.

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ASTMH Values and Promotes Diversity

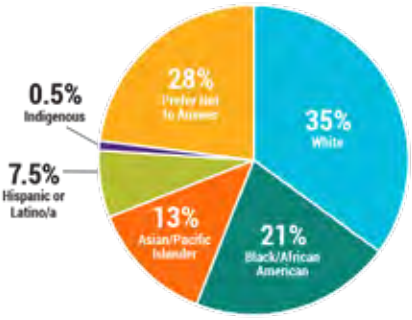
ASTMH Inclusion/Respect Statement

Our diverse membership comes from more than 115 countries and engages with an enormous array of infectious diseases, cultures, ethnicities, and countries. We come from academia, research institutes, implementation programs, industry, multilateral organizations, foundations, and governments, gathering annually to exchange data, share learning, and honor contributions from the field and the lab. As a Society, we are committed to the open exchange of ideas, freedom of thought and expression, and productive scientific debate that are central to our mission. These require an open and diverse environment that is built on dignity and mutual respect for all members, participants, and staff, free of discrimination based on personal attributes including but not limited to ethnicity, color, national origin, age, religion, socioeconomic status, disability, sexual orientation, gender, and gender identity or expression.

We affirm the key principles of inclusion, diversity, and respect for all people. In a world of rich diversity, the advancement of science depends on the intellectual breadth and depth of a diverse ASTMH, one that informs and enriches the shape and content of scientific discourse. These principles guide the actions of ASTMH's leaders, members, and staff in advancing the goals of the Society.

You can see ASTMH's diversity in its membership, leadership and in its Annual Meeting presenters and attendees. Symposium Organizers were encouraged to consider diversity with respect to gender, institutional background and country of origin when developing symposium submissions. All symposia were required to have at least one male and one female participant.

2022 Annual Meeting Attendees



2023 Board of Directors/Executive Committee

ASTMH Board, Subgroup Leadership and Fellows of ASTMH

ASTMH Board, Subgroup Leadership and Fellows of ASTMH (FASTMH)

ASTMH extends a special thank you to its Board members for their outstanding contributions throughout the year and their dedication to advancing the Society's mission.

Executive Committee

*Indicates voting member

President*
Daniel G. Bausch
FIND, Switzerland

President-Elect*
Linnie Golightly
Weill Cornell Medical College, United States

Secretary-Treasurer
Kent Kester
IAVI, United States

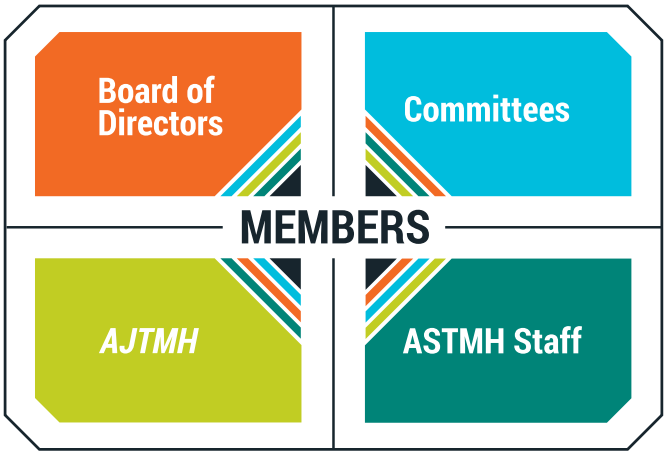
Chair, Scientific Program Committee
Christine A. Petersen
University of Iowa, United States

Editor-in-Chief, *American Journal of Tropical Medicine and Hygiene*
Philip Rosenthal
University of California San Francisco, United States

Presidential Advisor
Julie Jacobson
Bridges to Development, United States

CEO
Karen A. Goraleski
ASTMH, United States

Organizational Chart



Directors-at-Large

John H. Amuasi* (2023-2026)
Kwame Nkrumah University of Science and Technology School of Public Health, Ghana

Johanna Daily* (2022-2025)
Albert Einstein College of Medicine, United States

Keke Fairfax* (2022-2025)
University of Utah, United States

Emily S. Gurley* (2023-2026)
Johns Hopkins Bloomberg School of Public Health, United States

A. Desiree LaBeaud* (2020-2023)
Stanford University, United States

Bartholomew Nyangahu Ondigo* (2022-2023)
Egerton University, Kenya

Hannah Steinberg* (2023-2024)
University of Chicago Illinois before Jonathan Stiles

Jonathan K. Stiles* (2022-2023)
Morehouse School of Medicine, United States

Katherine Taylor* (2022-2023)
University of Notre Dame, United States

Bhupendra Tripathi* (2022-2024)
Bill & Melinda Gates Foundation, India

Subgroup Leadership

American Committee of Medical Entomology (ACME)
Chair: Catherine Hill
Purdue University, United States

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)
President: Michael Hsieh
Children's National Hospital, United States

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV)
Chair: Saravanan Thangamani
SUNY Upstate Medical University, United States

American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH – Clinical Group)
President: Natasha Hochberg
Novartis, United States

ASTMH Committee on Global Health (ACGH)
President: James Colborn
Clinton Health Access Initiative, United States

Board, Subgroup Leadership and Fellows of ASTMH

Fellows of ASTMH (FASTMH)

Fellow member status in the Society is an honor recognizing sustained professional excellence in any phase of tropical medicine, hygiene, global health and related disciplines. 2023 Fellows will be announced and recognized during the Awards Program on Wednesday, October 18.

2022 Fellows

Subash Babu
National Institutes of Health

Aaron Brault
Centers for Disease Control and Prevention

Lark Coffey
University of California Davis, School of Veterinary Medicine

Patrick Hickey
Uniformed Services University

Jonathan Juliano
University of North Carolina

Teshome Gebre Kanno
The Task Force for Global Health

Urszula Krzych
Walter Reed Army Institute of Research

Louis Lambrechts
Institut Pasteur

Makedonka Mitreva
Washington University School of Medicine

Ann Moormann
University of Massachusetts Medical School

Douglas Norris
Johns Hopkins Bloomberg School of Public Health

Miguel Reina Ortiz
Boise State University

Shannon Takala Harrison
University of Maryland School of Medicine

Daniel Tisch
Case Western Reserve University

ASTMH Staff

Karen A. Goraleski, *CEO*

Shaima Abdul-Aziz, *Project Manager, Scientific Program*

Annie Calacci, *Editorial Production Manager, AJTMH*

Stephen M. Croll, *Chief Operating Officer*

Judy DeAcetis, *Administrative Manager, Scientific Program*

Doug Dusik, *Senior Manager, Communications*

Buffy Finn, *Manager, Membership*

Natalia Gutierrez, *Scientific Program Coordinator*

Rebecca Hamel, *Manager, Development*

Brenda Howe, *Manager, Meetings and Partnerships*

Alison Jaeb, *Managing Editor and Publisher, AJTMH*

Lyn Maddox, *Vice-President, Meetings*

Rhonda Schultz, *Manager, Board and Fellowships*

Chelsea Taylor, *Operations Coordinator*

Additional Annual Meeting Support

Anna Chen, *Burness*

Matthew Davis, *Burness*

Danielle Dieterich, *Burness*

Gideon Hertz, *Burness*

Katy Lenard, *Burness*

Misia Lerska, *Burness*

Jessica Sansarran, *Burness*

Carol Schadelbauer, *Burness*

Preeti Singh, *Burness*

Lee Sova-Claypool, *Burness*

Kennedy Voxe, *Burness*

ASTMH Subgroups and Committees

ASTMH membership reflects a wide range of expertise in tropical medicine. For this reason, Society subgroups provide unique forums for members to engage in core scientific, educational, advocacy and policy issues related to a specific expertise with fellow stakeholders of similar interests. Benefits of becoming a subgroup member include receiving information on networking, pre-meeting courses and symposia activities planned for Annual Meetings to enhance career development. Each subgroup is governed by leaders who are elected annually by its members. This ensures ownership of Subgroup initiatives by those interested and invested in current topics of the field.

Subgroups

American Committee of Medical Entomology (ACME)

ACME promotes medical entomology within ASTMH and in organizations with scopes of activities that include the area of human diseases transmitted by arthropods.

Catherine Hill, *Chair, Councilor and Hoogstraal Medal Coordinator*

Adriana Troyo Rodriguez, *Chair-Elect and Councilor;* Douglas Norris, *Past Chair and Councilor;* Berlin Londono, *Secretary-Treasurer and Councilor;* Marco Neira, *Councilor;* Eleanore Sternberg, *Councilor;* Jennifer Stevenson, *Councilor*; Lauren Cator, *Councilor*; Nsa Dada, *Councilor*; Pamela Pennington, *Councilor*; Zach Adelman, *Councilor*; Jewelna Akorli, *Councilor*, Sarah Hamer, *Councilor*; Renee Ali, *Student Representative*

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)

ACMCIP facilitates interactions among scientists within ASTMH who work in the varied disciplines of parasitology, especially in basic laboratory, pre-clinical and translational research, clinician sciences and population-based sciences.

Michael Hsieh, *President*

Mahalia Desruisseaux, *Past President;* Amanda Lukens, *Secretary-Treasurer;* Regina Joice Cordy, *Councilor (Annual Meeting Symposia)*; Jeffrey Dvorin, *Councilor (Awards and Pre-Meeting Course)*; Amy Bei, *Councilor for Communications;* Selina Bopp, *Councilor-at-Large*; Omar Harb, *Councilor-at-Large*; Usheer Kanjee, *Councilor-at-Large*; Scott Lindner, *Councilor-at-Large*; Lola Fagbami, *Councilor for Trainees*

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV)

ACAV provides a forum for exchange of information among people interested in arbovirus research.

Saravanan Thangamani, *Chair and Councilor*

Rebecca Christofferson, *Past Chair and Councilor*; Mauricio Nogueira, *Chair-Elect and Councilor*; Shannon Bennett, *Secretary*; Rebecca Christofferson, *Treasurer*; Patricia Aguilar, *Councilor*; Nathan Grubaugh, *Councilor*; Matthew Aliota, *Councilor*; Maria Onyango, *Councilor*; Amy Krystosik, *Councilor*; Tyler Sharp, *Councilor*; Meghan Hermance, *Councilor*; Shannan Rossi, *Councilor*; Izabela Mauricio de Rezende, *Councilor for Trainees*

American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH)

The Clinical Group (ACCTMTH) is the clinicians' group within ASTMH and includes civilian, military and governmental experts in travelers' health, tropical infection and tropical disease.

Natasha Hochberg, *President*

Kyle Petersen, *President-Elect*; Mark Kortepeter, *Past President*; Shaymaa Abdalal, *Secretary-Treasurer*; Aisha Khatib, *Councilor*; Iván González, *Councilor*; Jill Weatherhead, *Councilor*; Laia Vazquez, *Student Representative*

ASTMH Committee on Global Health (ACGH)

ACGH promotes the development of the field of global health within ASTMH and addresses multidisciplinary transnational approaches to health issues that unfavorably affect underserved and under-resourced populations.

James Colborn, *President*

Yazoumé Yé, *President-Elect*; Corine Karema, *Past President*; Maria Elena Bottazzi, *Secretary-Treasurer*; Achama Eluwa, *Councilor*; Abdisalan Noor, *Councilor*; Arielle Dolegui, *Councilor*; Katherine Wolf, *Councilor*; Camila Tompkins, *Councilor for Trainees*

Administration

Audit/Finance

Kent Kester, *Chair*

Julie Jacobson; Daniel Bausch; Karen Goraleski; Stephen Croll

Development Committee

Chandy John, *Chair*

Nicole Achee; Serap Aksoy; Daniel G. Bausch; Julie Jacobson; Kent Kester; Desiree LaBeaud; Jean Lang; Jetsumon Sattabongkot Prachumsri; Julian Rayner; Karen Goraleski

ASTMH Subgroups and Committees (cont.)

American Journal of Tropical Medicine and Hygiene

Editorial Board: Jonathan Berman; Dwight Bowman; Brett Forshey; Hector Garcia; Steven Graves; Eric Halsey; A. Desiree LaBeaud; Patrick Lammie; Thomas Nutman; Tyler Sharp; Terrie Taylor; David Walker; A. Clinton White, Jr.

Editorial Staff: Philip Rosenthal, *Chair (Editor-in-Chief)*

Joe Vinetz (Associate Editor); Daniel Tisch (Biostatistical Editor); Baijayanta Mukhopadhyay (Art Curator); Alison Jaeb (Managing Editor and Publisher); Annie Calacci (Peer Review Coordinator/ Editorial Production Manager)

Section Editors: Bradley Blitvich; Aaron Brault; Claudia Ida Brodskyn; J. Stephen Dumler; David Hamer; Duane Hospenthal; James Kazura; Kristina Krohn; Audrey Lenhart; Anna Mandalakas; John Sanders; Christina Stauber; Maxine Whittaker

Inclusion/Respect Task Force

Julie Jacobson, *Co-Chair*

Johanna Daily, *Co-Chair*

Pedro Aide; Koya Allen; Daniel G. Bausch; Christine Petersen; Regina Rabinovich; Frank Richards, Jr.; Amanda Ruiz; Micaela Sandoval; Jonathan Stiles; Anna Uehara

Nominating Committee

Julie Jacobson, *Co-Chair*
Patricia F. Walker, *Co-Chair*

Ahmed Abd El Wahed; Patricia Aguilar; Hanna Ehrlich; Eileen Farnon; David Hamer; Matthew Kasper; Albert Ko; Miriam Laufer; Richard Oberhelman; Simon Pollett; Jetsumon Prachumsri; Amanda Elyssa Ruiz

Annual Meeting

Commemorative Lecture

Daniel G. Bausch, *Chair*

Annual Meeting Lecture (Fred L. Soper and Charles F. Craig)

Albert Icksang Ko, *Chair*

Anna Durbin; Beth Kirkpatrick; James McCarthy; Monica Parise; Frank Richards

Scientific Program

Christine Petersen, *Chair*

Stephen Popper, *Associate Chair*

See full committee list on page 32.

Travel Awards

Tracey Lamb, *Chair*

Manfred Accrobessi; Muhammed Aflolabi; Saeed Ahmad; Hoseah Akala; Subash Babu; Raquel Binder; Jorge Cervantes; Robert Commons; Edgard Dabira; Nsa Dada; Dibyadyuti Datta; Gillian Eastwood; Keke Fairfax; Marisa Hast; S. Patrick Kachur; Claire Kamaliddin; Nadira Karunaweera; Maryam Keshtkar Jahromi; Robert McCann; Wilbur Kearse Milhous; Francis Ndungu; Caroline Ng; Winter Okoth; Kolapo Oyebola; Jakrapun Pupaibool; Binod Rayamajhe; Elizabeth Rogawski McQuade; Alexandra Rowe; Maria Luisa Simoes; Sharon Tennant

Young Investigator Award

Ann Moorman, *Chair*

Charles Adetunji; Sasisekhar Bennuru; Fernando Bruno; Katia Bruxvoort; Andrea Conroy; David Diemert; Alex Eapen; Zannatul Ferdous; Rebecca Fischer; Dionicia Gamboa; Pedro Gazzinelli Guimares; Sara Healy; Prasanna Jagannathan; Solomon Kibrit Birhanie; Alexander Kwarteng; Kristen Lyke; Hughes Nana Djeunga; Juliana Otieno; Isaac Oyewole; Maggy Sikulu-Lord; Maria Luisa Simoes; Anita Suresh; Ashley Vaughan

Awards and Professional Recognition

Medals

James Kazura, *Chair*

Stephen Higgs; Stephanie James

Communications Award

Karen A. Goraleski, *Chair*

Ilan Moss; Marissa Chmiola; Tulika Singh; Laila Woc-Colburn

Subgroups and Committees (cont.)

Certificate Exam

Certificate Examination

Latha Rajan, *Chair*

Kevin Dieckhaus; Patrick Hickey; Godwin Igodo; David McCormick; Bayan Missaghi; Tara Ness; Monica Pachar Flores; Gregory Raczniack; Liliana Sanchez-Gonzalez; Megan Shaughnessy; Melinda Tanabe

Diploma Course Certification Committee

Anne McCarthy, *Chair*

Eva Clark; Melanie Fisher; Brett Hendel-Paterson; German Henostroza; Benno Kreuels; Christopher Smith

Education/Fellowships/Grant Awards

Alan J. Magill Fellowship

Sarah Volkman, *Chair*

Janiine Babcock; Mame Niang; Nicanor Obaldia; Christina Polyak; Douglas Postels; Larry Slutsker; Joseph Wagman; Norman Waters; Karen A. Goraleski (Ex-Officio); Bruno Moonen (Ex-Officio)

Benjamin H. Kean Travel Fellowship in Tropical Medicine

Arlene Dent, *Chair*

Musa Ali; Ross Boyce; Katherine Dobbs; Dominique Earland; Seth Hoffman; Farzana Islam; Nathan Lo; Juan Marcelo Perez Velazquez; Christina Polyak; Thomas Richie; Paul Robben; Katherine Sabourin; Michele Spring; Tania Thomas; Indi Trehan; Paige Waterman

Burroughs Wellcome Fund-ASTMH Fellowship

Subash Babu, *Co-Chair*

Molly Hughes, *Co- Chair*

Peter Billingsley; Arlene Dent; Thomas Eisele; Michael Kron; Matthew Laurens; Jessica Lin; Victoria McGovern (Ex-Officio)

Centennial Travel Award

David Fidock, *Chair*

Melissa Conrad; Matthew Ippolito; Giselle Lima-Cooper; Douglas J. Perkins

Digital Education Committee

Kristina Krohn, *Chair*

Shaymaa Abdalal; Nicole Achee; Patricia Aguilar; Lyric Bartholomay; Katelyn Brenneman; James Colborn; Stephen Davies; Gabriel Hamer; Catherine Hil; Natasha Hochberg; Teresia Njoroge; Maria Onyango; Stephen Popper; Julian Rayner; Saravanan Thangamani; Jill Weatherhead

Robert E. Shope International Fellowship

Eric C. Mossel, *Chair*

Charles Calisher; Rebecca Christofferson; Keli Gerken; Richard Shope; Thomas Yuill

Membership

Fellows

Kent Kester, *Chair*

Bruce Christensen; Mahamadou Diakite; Duane Hospenthal; Sanjai Kumar; Dennis Kyle; Jean Lang; Shirley Luckhart; Alan Spira; Nikos Vasilakis; Joe Vinetz

ASTMH Distinguished International Fellow

Dyann Wirth, *Chair*

Stephen Higgs; Ousmane Koita; Pedro Vasconcelos; Xiao-Nong Zhou

International Membership Committee

Jonathan Stiles, *Co-Chair*

Bhupendra Tripathi, *Co-Chair*

Ronald Blanton; Adilson de Pina; Silva Maria Fatima DiSanti; Sheena Francis; Nadira Karunaweera; Jean Lang; Yaye Ndiaye; Shrikant Nema; Bartholomew Ondigo; Carola Salas; Joana Silva; Paul Wangai

Membership

Kent Kester, *Co-Chair*

Aileen Marty, *Co-Chair*

Shaymaa Abdalal; Priyanka Barua; Moussa Djimde; Franck Dumetz; Deus Ishengoma; Kofi Issa; Sarah Labuda; Gwenyth Lee; Julie Pavlin; Mark Polhemus; Ann Stewart; Melinda Tanabe

ASTMH Subgroups and Committees (cont.)

Trainee Membership Committee

Amanda Ruiz, *Co-Chair*

Bart Ondigo, *Co-Chair*

Koya Allen; Philip Budge; Brennan Cebula; Hanna Ehrlich; Edmund Ekuadzi; Catherine Mitran; Hannah Steinberg; Lola Fagbami; Izabela Mauricio de Rezende; Laia Vazquez; Camila Tompkins; Teresia Njoroge

Ad Hoc

Green Task Force

Desiree LaBeaud, *Chair*

Michele Barry; Shyam Prakash Dumre; Hanna Ehrlich; Bartholomew Ondigo; Sapna Sadarangani; Laia Vazquez; Njeri Wamae

***AJTMH* Review Task Force**

Daniel G. Bausch, *Chair*

Philip Rosenthal, *Co-Chair*

Keke Fairfax; Deus Ishengoma; Alison Jaeb; Tishina Okegbe; Frank Richards; Christine Stauber

Scientific Program Committee

The Society and the Annual Meeting attendees offer special thanks to the Scientific Program Committee for their work in determining the robust agenda offered at this year's meeting.

Chair
Christine A. Petersen, DVM, PhD, FASTMH
University of Iowa

Associate Chair
Stephen Popper, ScD
University of California Berkeley

Clinical Tropical Medicine
Chair: Henry Wu, *Emory University*
Samuel Akech, *KEMRI/Wellcome Trust Research Programme*
Workagegnehu Bilchut, *University of Gondar*
Johanna Daily, *Albert Einstein College of Medicine*
Maya Gopalakrishnan, *All India Institute of Medical Sciences*
Martin Grobusch, *Academic Medical Center*
Elizabeth Gulleen, *Fred Hutchinson Cancer Research Center*
Rapeephan Maude, *Mahidol-Oxford Tropical Medicine Research Unit*
Kyle Petersen, *Uniformed Services University of the Health Sciences*
Melinda Tanabe, *University of Texas Medical Branch*

Diarrhea and Bacterial Illness
Chair: Richelle Charles, *Massachusetts General Hospital*
Jessica Fairley, *Emory University*
Diana Martin, *Centers for Disease Control and Prevention*
Farah Qamar, *Aga Khan University*
Mark Simons, *Uniformed Services University*
Ana Weil, *University of Washington*

Ectoparasite-Borne Diseases
Chair: J. Stephen Dumler
Heidi Goethert, *Tufts University*
Kevin Macaluso, *University of South Alabama*
Saravanan Thangamani, *SUNY Upstate Medical University*

Entomology
Chair: Audrey Lenhart, *Centers for Disease Control and Prevention*
Kelli Barr, *University of South Florida*
Solomon Kibret Birhanie, *West Valley Mosquito and Vector Control District*
Louis Lambrechts, *Institut Pasteur*
Joel Lutomiah, *Kenya Medical Research Institute (KEMRI)*
Kristan Schneider, *University of Applied Sciences Mittweida*
Maggy Sikulu-Lord, *The University of Queensland*
Maria Luisa Simoes, *Institute of Tropical Medicine Antwerp*

Filariasis
Chair: Sasisekhar Bennuru, *National Institutes of Health*
Brenda Beerntsen, *University of Missouri-Columbia*
Katherine Gass, *Task Force for Global Health*
Jesica Herrick, *University of Illinois at Chicago*

Global Health
Chair: Richard Reithinger, *RTI International*
Clive Brown, *Centers for Disease Control and Prevention*
Mamadou Diallo, *Centers for Disease Control and Prevention*
Caterina Fanello, *University of Oxford*
Mariam Fofana, *Yale School of Public Health*
Andres Lescano, *Universidad Peruana Cayetano Heredia*
Catherine Oldenburg, *University of California San Francisco*
Julie Pavlin, *National Academies of Sciences, Engineering and Medicine*
Miguel Reina Ortiz, *Boise State University*
Laura Steinhardt, *Centers for Disease Control and Prevention*
Michael Wimberly, *University of Oklahoma*

Integrated Control Measures for Neglected Tropical Diseases
Chair: Darin Evans, *United States Agency for International Development*
Christine Bachman, *Global Health Labs*
Paul Cantey, *Centers for Disease Control and Prevention*
Michael French, *RTI International*
Teshome Gebre Kanno, *The Task Force for Global Health*
Ricardo Soares Magalhaes, *University of Queensland*
Vasantha Kumari Neela, *Universiti Putra Malaysia*

Intestinal and Tissue Helminths, Cestodes
Chair: Jose Serpa-Alvarez, *Baylor College of Medicine*
Ayman Elbadry, *Cairo University*
Makedonka Mitreva, *Washington University*
Francesca Tamarozzi, *IRCCS Sacro Cuore Don Calabria Hospital*

Kinetoplastida and Other Protozoa
Chair: Paul Nguewa, *Universidad de Navarra*
Natalie Bowman, *University of North Carolina*

Scientific Program Committee (cont.)

Frederick Buckner, *University of Washington*
Omar Hamarsheh, *Al-Quds University*
Abhay Satoskar, *Ohio State University*
Jaya Shrivastava, *Public Health England*
Mary Wilson, *University of Iowa*

Late-Breakers in Basic Sciences
Co-Chair: Wei-Kung Wang, *University of Hawaii Manoa*
Co-Chair: Yai Justin Doritchamou, *National Institutes of Health*

Late-Breakers in Clinical and Applied Sciences
Co-Chair: Noreen Hynes, *Johns Hopkins University*
Co-Chair: Miguel Cabada, *University of Texas Medical Branch*
Sharon Tennant, *University of Maryland*
Paige Waterman, *Walter Reed Army Institute of Research*

Late-Breakers in Malaria
Chair: Shannon Takala Harrison, *University of Maryland School of Medicine*
Mahamadou Diakite, *Malaria Research & Training Center-USTTB*
Giselle Lima-Cooper, *Indiana University*
Carola Salas
David Saunders, *U.S. Army*

Malaria
Chair: Shannon Takala Harrison, *University of Maryland School of Medicine*
Ruth Ashton, *Tulane University*
Andrea Berry, *University of Maryland* Adilson DePina, *Ministry of Health, Cabo Verde*
Mahamadou Diakite, *Malaria Research & Training Center-USTTB*
Silvia Di Santi, *USP*
Katherine Dobbs, *Case Western Reserve University*
Thomas Eisele, *Tulane University*
Susanta Ghosh, *National Institute of Malaria Research*
Giselle Lima-Cooper, *Indiana University*
Jessica Lin, *University of North Carolina*
Jailos Lubinda, *Telethon Kids Institute, Malaria Atlas Project*
Richard Maude, *Mahidol University*
Peter McElroy, *Centers for Disease Control and Prevention*
Christian Nsanzabana, *Swiss Tropical and Public Health Institute*
Miranda Oakley, *Food and Drug Administration*
Carola Salas
David Saunders, *U.S. Army*
Nathan Schmidt, *Indiana University School of Medicine*
Karl Seydel, *Michigan State University* Larry Slutsker, *Consultant*
Eleanore Sternberg, *Tropical Health* Moriya Tsuji, *Columbia University*

Molecular Parasitology
Chair: Julian Rayner, *University of Cambridge*
Philip Budge, *Washington University St. Louis*
Michael Ferdig, *University of Notre Dame*
Alexis Kaushansky, *Seattle Children's Research Institute*
Laura Kirkman, *Weill Cornell Medical College*
Tracey Lamb, *University of Utah*
David Serre, *University of Maryland*
Issiaka Soulama, *Institut de Recherche en Sciences de la Santé*
Ashley Vaughan, *Seattle Children's Research Institute*

One Health: The Interconnection between People, Animals, Plants and Their Shared Environment
Kelly Baker, *University of Iowa*
Ahmed Abd El Wahed, *Leipzig University*
Koya Allen, *Booz Allen Hamilton*
Christina Bergey, *Rutgers University*
Rose Jalang'o, *Ministry of Health, Kenya*

Pneumonia, Respiratory Infections and Tuberculosis
Jorge Cervantes, *Nova Southeastern University*
Jasper Chan, *The University of Hong Kong*
Geofrey Makenga, *National Institute for Medical Research*
Muhammad Imran Nisar, *Aga Khan University*
S. M. Mazidur Rahman, *International Centre for Diarrhoeal Disease Research, Bangladesh*

Schistosomiasis-Helminths
Chair: Michael Hsieh, *Children's National Hospital*
Stephen Davies, *Uniformed Services University of the Health Sciences*
Charles Delahunt, *Global Health Labs*
Keke Fairfax, *University of Utah*

Virology
Chair: Greg Ebel, *Colorado State University*
Patricia Aguilar, *University of Texas Medical Branch*
Waqas Ahmad, *KBCMA University College of Veterinary*
Edith Chepkorir, *Kenya Medical Research Institute (KEMRI)*
Anna Durbin, *Johns Hopkins Bloomberg School of Public Health*
Maria Guzman, *"Pedro Kouri" Tropical Medicine Institute*
Michael Holbrook, *National Institute of Allergy and Infectious Diseases*
Ralph Huits, *IRCCS Ospedale Sacro Cuore Don Calabria*
Karen Jacobson, *Stanford University*
Carla Mavian, *University of Florida*
John Schieffelin, *Tulane University*
Pedro Vasconcelos, *Pará State University*
Nikos Vasilakis, *University of Texas Medical Branch*

Water, Sanitation, Hygiene and Environmental Health
Chair: Robert Dreibelbis, *London School of Hygiene & Tropical Medicine*
Emily Bailey, *Campbell University*
Kondwani Chidziwisano, *Malawi University of Business and Applied Sciences*
Joseph Eisenberg, *University of Michigan School of Public Health*
Isaac Chun Hai Fung, *Georgia Southern University*
Christine George, *Johns Hopkins Bloomberg School of Public Health*
Tarique Huda, *International Centre for Diarrhoeal Disease Research, Bangladesh*

Fellowships, Travel Awards, and Grants

Alan J. Magill Fellowship

Chair: Sarah Volkman, *Harvard School of Public Health, United States*

This fellowship, created in honor of Alan Magill, supports career-broadening experiences to enhance professional development and leadership opportunities beyond those traditionally available from within an applicant's home organization and, in doing so, equips awardees to later assume leadership and mentoring roles in various aspects of tropical medicine.

ASTMH is grateful for the support and partnership with the Bill & Melinda Gates Foundation.

2023 Recipient

Issiaka Soulama, PharmD, PhD
Institut de Recherche en Sciences de la Santé (IRSS), Burkina Faso

Annual Meeting Travel Awards

Chair: Tracey Lamb, *University of Utah, United States*

ASTMH offers travel awards to qualified students, early-career investigators and scientists actively working in the tropical medicine field to attend the Annual Meeting. These awards facilitate participation for those who might not otherwise be able to attend.

Abdul Latif Adams, *TUS, Ireland*

Derrick Adu Mensah, *Kumasi Center for Collaborative Research in Tropical Medicine, Ghana*

Hasan Mohammad Al-Amin, *QIMR Berghofer Medical Research Institute, Australia*

Benedicta Atsu, *University of Ghana School of Public Health, Ghana*

Priyanka Barua, *University of Dhaka, Bangladesh*

ASTMH Subgroup Awards (cont.)

American Committee of Medical Entomology (ACME) Future Leaders in International Medical Entomology Award

Chair: Catherine Hill, *Purdue University, United States*

The Future Leaders fellowship is a competitive award that will be offered to an outstanding junior medical entomology researcher (must be at the undergraduate to post-doctoral level) to showcase individuals that have matched interests to ACME's objectives of promoting medical entomology and reducing the burden of human diseases transmitted by arthropods globally. Applicants must be a non-US citizen from an LMIC.

2023 Recipient

Majidah Hamid-Adiamoh, *University of Notre Dame, Eck Institute for Global Health, United States*

American Committee of Medical Entomology (ACME) Award of Distinction

Chair: Catherine Hill, *Purdue University, United States*

This new ACME award was established to help recognize individuals that have made outstanding contributions to the field of medical entomology.

2023 Recipient

Ellen Dotson, *Centers for Disease Control and Prevention, United States*

American Committee of Medical Entomology (ACME) Hoogstraal Medal

Chair: Catherine Hill, *Purdue University, United States*

The Harry Hoogstraal Medal for Outstanding Achievement in Medical Entomology was established in 1987 to recognize the most influential medical entomologists for their contributions to their field. This award is named in honor of Dr. Harry Hoogstraal whose contributions to systematics of medically important arthropods and the diseases they carry are vast.

2023 Recipient

Jose Ribeiro, *National Institutes of Health, United States*

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Travel Award for Low and Low-Middle Income (LMIC) Trainees

Chair: Michael Hsieh, *Children's National Hospital, United States*

The ACMCIP student travel award recognizes a student or trainee conducting basic parasitology research who is primarily based in a low or low-middle income country.

2023 Recipient

Ines Ngoh, *University of Bamenda, Cameroon*

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Award for Advanced Training

Chair: Michael Hsieh, *Children's National Hospital, United States*

This ACMCIP-sponsored award is designed to defray travel expenses for trainees to attend practical training courses in the fields of molecular, cellular or immunoparasitology. The trainee must be or become an ASTMH and ACMCIP member.

2023 Recipient

Wenqiao He, *University of North Carolina at Chapel Hill, United States*

ASTMH Subgroup Awards (cont.)

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) William Trager Award for Basic Parasitology

Chair: Michael Hsieh, *Children's National Hospital, United States*

The William Trager Award, established by the ACMCIP in 2015, recognizes a fundamental breakthrough in molecular, cellular or immunoparasitology. This annual award is named in honor of Prof. William Trager, PhD, a past president of ASTMH, who established *in vitro* culture conditions for *Plasmodium* parasites and thereby directly enabled almost all of the current fields of basic and applied malaria research.

2023 Recipient

Jonathan Marchant, *Medical College of Wisconsin, United States*

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Take-Off Award

Chair: Michael Hsieh, *Children's National Hospital, United States*

The Take-Off Award (formerly Junior Investigator Award) recognizes an early-career stage scientist who has made significant contributions in the field of cellular, molecular and immunoparasitology.

2023 Recipient

Sachel Mok, *Columbia University, United States*

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Student Travel Awards

Chair: Saravanan Thangamani, *SUNY Upstate Medical University, United States*

Up to seven individuals are presented the ACAV student/post-doc travel awards by the ASTMH's American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV).

2023 Recipients

Shiho Torii, *Institut Pasteur, France*

Parker Norman, *University of South Alabama College of Medicine, United States*

Natalia Ingrid Oliveira Da Silva, *University of Texas Medical Branch, United States*

Arturo Barbachano-Guerrero, *University of Colorado Boulder, United States*

Verity Hill, *Yale University, United States*

Paola Flores, *Ponce Health & Sciences University, United States*

Helene Cecilia, *New Mexico State University, United States*

ASTMH Subgroup Awards (cont.)

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Dalrymple/Young Award

Chair: Saravanan Thangamani, *SUNY Upstate Medical University, United States*

The Dalrymple/Young Award is given every three years to a mid-career investigator who has made outstanding contributions to arbovirology. Those awarded the Dalrymple-Young Award for mid-career scientists in zoonotic virology truly follow two of the outstanding leaders in their field during the second half of the 20th century.

2023 Recipient

Nikos Vasilakis, *University of Texas Medical Branch, United States*

ASTMH Committee on Global Health (ACGH) Student/Post-Doc Travel Awards

Chair: Achama Eluwa, *University of Oxford, United Kingdom*

The ACGH travel award program supports travel to the Annual Meeting for a student or postdoctoral fellow whose research directly promotes the practice of global health.

2023 Recipient

Adebiyi Adeniran, *Washington University School of Medicine, United States*

ASTMH Committee on Global Health (ACGH) Award for Research Support

Chair: Achama Eluwa, *University of Oxford, United Kingdom*

This ACGH-sponsored award is designed to support research expenses for trainees who have approved research projects that are currently active or will start during 2023. Trainees can use the award to support travel to field sites, purchase equipment, software, reagents or supplies, or cover other expenses that will enhance the project.

2023 Recipients

Sarah Boudova, *Thomas Jefferson University, United States*

Godwin Kwakye-Nuako, *University of Cape Coast, Ghana*

Marissa Milstein, *University of Minnesota College of Veterinary Medicine, United States*

ASTMH Subgroup Awards (cont.)

ACCTMTH Clinical Research Award

Chair: Obinna Nnedu, *Ochsner Medical Center, United States*

This award recognizes excellence in clinically-oriented research presented by students (within six months of completing undergraduate or Master's level training, including medical undergraduate degrees) or those in graduate medical training of work submitted and presented at the Annual Meeting. 2023 recipients will be determined at the competitive judging event held on Wednesday, October 18, during the Annual Meeting.

2022 Recipients

Kathryn Radulovacki, *Emory University School of Medicine, United States*

Karen Blake Jacobson, *Stanford University, United States*

Mohammed Sohaib Asghar, *Dow University of Health Sciences, Pakistan*

Program Information

All schedules are U.S. Central Time Zone

ACCTMTH Clinical Research Award Competition

Wednesday, October 18, 11 a.m. – 3 p.m.

This award recognizes excellence in clinically oriented research presented by students (within six months of completing undergraduate or Master's-level training, including medical undergraduate degrees, or those in graduate medical training) for work submitted and presented at the Annual Meeting. Support these young scientists by attending their presentations during this session. View the session schedule on page 93.

Young Investigator Award Competition

Wednesday, October 18, 9 a.m. – 2 p.m.

The Young Investigator Award is presented to outstanding young researchers during the Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research. Support these young scientists by attending their presentations during this session. View the session schedule on page 84.

Late-Breaker Abstracts

These sessions feature presentations of important new data obtained after the closing date for abstract submission. Late-Breaker oral and poster presentations will take place during sessions on Thursday, Friday and Saturday. A schedule of Late-Breaker Abstract presentations can be found in the Meeting App and the Late-Breaker Abstract Presentation Schedule.

Symposium 17:

Alan J. Magill Malaria Eradication Symposium: Using Vector Control to Advance Malaria Elimination

Thursday, October 19, 10:15 a.m. – Noon

Grand Ballroom CDEF - Ballroom Level (East Tower)

Supported with funding from the Bill & Melinda Gates Foundation

This annual symposium honors the life and work of ASTMH Past President Alan Magill, who at the time of his untimely death in 2015 was promoting the bold goal of global malaria eradication in his role as the Malaria Director at the Bill & Melinda Gates Foundation. The symposium will bring together leaders in the malaria field to summarize the challenges and advances in areas of relevance to the malaria elimination and eradication effort.

ACMCIP Abstracts

Throughout this book, you will notice that some abstracts are followed by the notation "(ACMCIP abstract)." This notation means the abstract content pertains to molecular, cellular or immunoparasitology. ACMCIP refers to the American Committee of Molecular, Cellular and Immunoparasitology, an ASTMH subgroup. For more information, go to astmh.org/subgroups/acmcip.

Calling All Early- and Mid-Career Attendees

Events for Students, Trainees, Fellows, Residents and Junior Faculty

Are you a trainee or otherwise fairly new to research, global public health or clinical tropical medicine? The following sessions are designed to help build fundamental skills and perspectives for a successful start to your career. Mark your planner on the ASTMH Annual Meeting App and learn from experienced members of the various ASTMH professional communities.

Young Investigator Award Competition

Wednesday, October 18, 9 a.m. – 2 p.m.

Grand Hall J - Ballroom Level (East Tower)
Roosevelt 3B - Concourse Level (East Tower)
Regency Ballrooms A, B, C, D - Ballroom Level (West Tower)

Pfizer

ASTMH is grateful for the Pfizer sponsorship of the Young Investigators Award Competition.

ACCTMTH Clinical Research Award Competition

Wednesday, October 18, 11 a.m. – 3 p.m.

Dusable - Third Floor (West Tower)

ACMCIP Mentor/Trainee Lunch Kick-Off Panel

Wednesday, October 18, Noon – 1:30 p.m.

Crystal Ballroom C - Lobby Level (West Tower)

Program Information

All schedules are U.S. Central Time Zone

Point of Entry: First-Time Attendee Orientation

Wednesday, October 18, 1 p.m. – 2 p.m.

Crystal Ballroom A - Lobby Level (West Tower)

Are you new to the ASTMH Annual Meeting and want to get the lay of the land? Don't miss our Point of Entry session on Sunday afternoon. New attendees will be oriented to the schedule, session structure and highlights of the Annual Meeting. Meet others attending the meeting for the first time and expand your professional network while learning the ins and outs of where to go and what to attend.

Student Reception

Wednesday, October 18, 2:30 p.m. – 3:30 p.m.

Crystal Ballroom C - Lobby Level (West Tower)

The ASTMH Board of Directors invites all students, postdoctoral fellows and residents to the student reception. This reception is an opportunity to meet fellow trainees, network with colleagues and mentors and engage in conversation with Society leaders.

The TropStop — Student/Trainee Lounge

Grand Hall MN - Ballroom Level (East Tower)

This casual setting, designed with students, trainees and residents in mind (e.g., free coffee and free internet), is your place for a break from the fast pace of the meeting and to relax with colleagues and friends. Be sure to check out Career Chats held in the TropStop. This is your opportunity to meet professionals in the fields of tropical medicine and global health who will share their career stories and discuss topics and strategies to help you along your career path.

TropStop Career Chats

Grand Hall MN - Ballroom Level (East Tower)

Career Chats (via Zoom; limited to registrants who signed up for this event)

NETWORKING STRATEGIES FOR TRAINEES

Thursday, October 19, 9:15 a.m. – 10:15 a.m.

Career Chats (In-Person)

MEET THE OVERSEAS MENTORS

Friday, October 20, 3 p.m. – 4 p.m.

Career Chats (In-Person)

MEET THE EDITORS

Saturday, October 21, 2 p.m. – 3 p.m.

Ponder to Probe: A Climate-Health Networking Event

Thursday, October 19, 5:15 p.m. – 7 p.m.

Roosevelt 3B - Concourse Level (East Tower)

The ASTMH Committee on Global Health (ACGH) invites you to join us for an informal discussion on how climate change affects global health. Chat with experts who are working in the field and ask them how climate change affects their work, what we can do to better incorporate climate change into our work, and what we can do to help mitigate the problem.

Speed-Networking with the Experts Session

Friday, October 20, 6:15 p.m. – 8 p.m.

Crystal Ballroom B – Lobby Level (West Tower)

The annual Speed-Networking session is organized by the five ASTMH subgroups: ASTMH Committee on Global Health (ACGH), the American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH/Clinical Group), the American Committee of Medical Entomology (ACME), the American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) and the American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP). The session is designed to facilitate interactions between senior scientists, physicians and trainees in an informal setting in order to provide an array of important information on possible career paths in tropical medicine. During this session, students and young career scientists will have an opportunity to briefly meet experts who represent each of the subgroup fields, including scientists in global health, clinicians, epidemiologists, entomologists and basic research scientists. Experts will have a broad range of career experiences working in international posts, policy, federal government and the military, among others. Experts will share information with students about their career choices, trajectories, challenges along the way and how they see their work fitting into the larger tropical medicine arena. Students in this session will be designated to a subgroup to match their interests and current educational paths. Please note that this meeting is limited to those who pre-registered for the event.

Program Information

All schedules are U.S. Central Time Zone

Clinical Pub Trivia Night

Saturday, October 21, 6:15 p.m. - 7:45 p.m.

Michigan 1 B/C - Concourse Level (East Tower)

Come join us for a fun-filled collegial competition, sponsored by the ASTMH Clinical Group. This is a chance to meet others interested in clinical tropical medicine, show your knowledge, learn some new fun facts, and enjoy free snacks. Don't worry if you are new to trop med. Teams will be a mix of people with different levels of experience, and you won't be asked to answer any question alone. The winning team takes home prizes and bragging rights.

Burroughs Wellcome Fund-ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

Following are abstract presentations to be made by recipients of the Burroughs Wellcome Fund-ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases.

Miriam Fofana

Discordant circulating and mucosal antibody responses elicited by SARS-CoV-2 infection and vaccination in a longitudinal cohort from Brazil

Abstract 6432

Deanna Friedman-Klabanoff

Off-target antibody responses induced by RTS,S/AS02A/1B in malaria-naïve adults associated with protection against controlled human malaria infection

Abstract 6884

Joelle Rosser

Drones and Dengue: Piloting the use of unmanned aerial vehicles to map trash distribution and dengue virus risk in rural and urban Kenya

Abstract 7229

High risk of dengue and chikungunya virus found amongst children living in informal urban settlements in Makassar, Indonesia

Abstract 5285

Pranay Sinha

Prevalence of soil-transmitted helminth co-infection among persons with TB

Abstract 6457

Program Information

All schedules are U.S. Central Time Zone

Poster Sessions

Riverside Center – Exhibit Level (East Tower)
Grand Hall GHI – Ballroom Level (East Tower)

Three poster sessions will be held in the Riverside Center on the Exhibit Level and Grand Hall GHI on the Ballroom Level of the East Tower. During these sessions, presenters will be available at their posters for discussion. There are additional times for poster viewing (presenters need not be in attendance during these time periods). We encourage attendees to visit the Poster Hall throughout the day.

Important Information about the ePoster Hall Gallery on the Livestream Portal

If you cannot find a poster in the Poster Hall, search the digital posters in the ePoster Hall Gallery on the Livestream Portal. The Livestream Portal can be accessed at **https://www.astmh.org/**.

Digital posters uploaded to the ePoster Hall can be accessed via the Livestream Portal through April 30, 2024.

Please note that ePoster presenters are not expected to attend the Poster Sessions on the Livestream Portal during designated presentation timeframes and as such, poster viewing in the ePoster Hall Gallery will take place on an On-Demand basis. We encourage ePoster presenters and attendees to communicate in the ePoster Hall Gallery using typed messages via the Chat Box. Since poster viewing in the ePoster Hall Gallery will take place on an On-Demand basis, most Chat conversations will take place on an asynchronous basis rather than in real time.

No live verbal communication will take place between attendees and ePoster presenters in the ePoster Hall Gallery. Communication between attendees and ePoster presenters will take place via typed messages in a Chat Box.

POSTER SESSION SCHEDULE

All times in United States Central Time Zone

POSTER SESSION A

Thursday, October 19

Setup | 9:45 a.m. – 10:15 a.m.

Viewing | 10:15 a.m. – 3 p.m.

Presentations | Noon – 1:45 p.m.

Dismantle | 3 p.m. – 5:15 p.m.

POSTER SESSION B

Friday, October 20

Setup | 9:45 a.m. – 10:15 a.m.

Viewing | 10:15 a.m. – 4 p.m.

Presentations | Noon – 1:45 p.m.

Dismantle | 4 p.m. – 6:15 p.m.

POSTER SESSION C

Saturday, October 21

Setup | 9:45 a.m. – 10:15 a.m.

Viewing | 10:15 a.m. – 3 p.m.

Presentations | 11 a.m. – 12:45 p.m.

Dismantle | 3 p.m. – 5:15 p.m.

Program Information

All schedules are U.S. Central Time Zone

POSTER SESSION A

Riverside Center – Exhibit Level (East Tower)

- Bacteriology
- Clinical Tropical Medicine
- Helminths – Nematodes - Filariasis
- Integrated Control Measures for Neglected Tropical Diseases (NTDs)
- Kinetoplastida and Other Protozoa
- One Health: The Interconnection between People, Animals, Plants and Their Shared Environ-ment
- Pneumonia, Respiratory Infections and Tuberculosis
- Schistosomiasis and Other
- Water, Sanitation, Hygiene and Environmental Health

Malaria

Virology

Entomology

Global Health

Grand Hall GHI – Ballroom Level (East Tower)

Late-Breakers

ENTRANCE

POSTER SESSION B

Riverside Center – Exhibit Level (East Tower)

- Bacteriology
- Cestodes
- Helminths – Nematodes – Intestinal Nematodes
- Clinical Tropical Medicine
- HIV and Tropical Co-Infections
- Integrated Control Measures for Neglected Tropical Diseases (NTDs)
- Kinetoplastida and Other Protozoa
- One Health: The Interconnection between People, Animals, Plants and Their Shared Environ-ment
- Pneumonia, Respiratory Infections and Tuberculosis
- Schistosomiasis and Other Trematodes
- Water, Sanitation, Hygiene and Environmental Health

Malaria

Virology

Entomology

Global Health

Grand Hall GHI – Ballroom Level (East Tower)

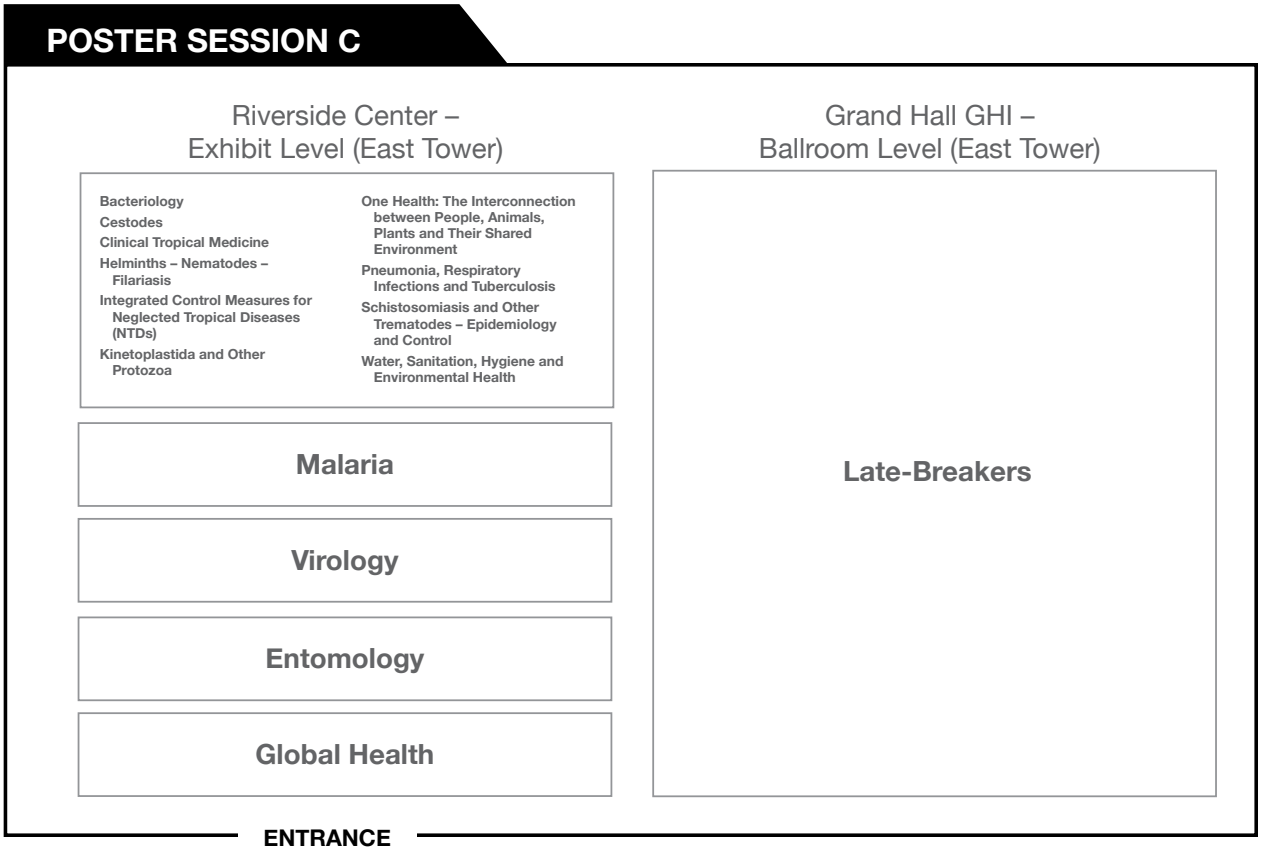
Late-Breakers

ENTRANCE

Program Information

All schedules are U.S. Central Time Zone

POSTER SESSION C



Meet us in the TropMed Hub

Riverside Center – Exhibit Level (East Tower)

Visit the TropMed Hub and visit with ASTMH member volunteers from:

- American Society of Tropical Medicine and Health (ASTMH)
- *American Journal of Tropical Medicine and Hygiene (AJTMH)*
- ASTMH Subgroups
  - American Committee of Medical Entomology (ACME)
  - American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)
  - American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV)
  - American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH – Clinical Group)
  - ASTMH Committee on Global Health (ACGH)

Our subgroups provide unique forums for members to engage in core scientific, educational, advocacy and policy issues related to a specific expertise with fellow stakeholders of similar interests. Benefits include networking and Pre-Meeting Courses and symposia activities planned for Annual Meetings to enhance career development.

Learn more about:

- ASTMH membership
- How to submit a manuscript to *AJTMH*
- ASTMH subgroups and how to get involved
- Explore GOTropMEd – the ASTMH Global Online Tropical Medical Education website

Sponsored Symposia

Achieving Global Malaria Targets Relies on Quality Health Services: Lessons Learned and Results from PMI's Support for Quality Improvement of Healthcare Services for Malaria

Crystal Ballroom A - Lobby Level (West Tower)
Friday, October 20, 7 a.m. - 8:45 a.m.

Sponsored by U.S. President's Malaria Initiative (PMI) Impact Malaria

Recent publications from the Unitaid-funded CARAMAL project brought into sharp focus that the effectiveness of malaria control and elimination tools is dependent on the strength and quality of the health care systems through which they are delivered. Access to diagnosis and treatment of malaria, and the prevention of malaria in pregnancy depends on the availability and quality of routine health services at community, facility, and referral levels, but the quality of those services is often lacking in malaria-affected countries. PMI has prioritized support to countries to improve the quality of health services for malaria for more than 15 years. PMI's support has resulted in the development and implementation of effective quality improvement programs at community, facility, and referral levels, including the Outreach Training and Supportive Supervision (OTSS) quality improvement package that has been implemented in more than 15 countries. These innovative quality improvement programs have been tested, refined, and expanded over more than a decade.

This symposium will:

1. Outline PMI's approach to strengthening health systems and improving the quality of health services
2. Present the findings of an independent evaluation of these quality improvement approaches in multiple countries
3. Share country examples and lessons learned of successful quality improvement programs at community, facility, and referral levels

While malaria-affected countries and their partners have been successful in reaching high coverage of multiple preventive interventions (including ITNs, IRS, and SMC) when delivered through campaigns, coverage of malaria interventions delivered through routine health services has lagged, often failing to leverage malaria-specific support for strengthening service delivery and stalling progress towards malaria control and elimination. The targets set out by malaria affected countries and WHO's Global Technical Strategy will not be achieved until the health systems of malaria-affected countries deliver high quality healthcare services. Approaches that improve the quality of these services in malaria-affected countries, such as OTSS, have been developed and refined in multiple countries over more than a decade with the support of PMI, with a growing body of evidence on their effectiveness, including an independent evaluation of OTSS the results of which are featured in the upcoming Special Supplement. National malaria programs and their partners, as well as other disease control programs, can benefit from the lessons learned from these effective quality improvement programs that could be replicated in their countries.

CHAIR

Meera Venkatesan
PMI/USAID, Washington, DC, United States

Patrick Kachur
Columbia University, New York, NY, United States

OVERVIEW OF THE PMI IMPACT MALARIA PROJECT'S QUALITY IMPROVEMENT MODEL

Dr. Lawrence Barat
PMI Impact Malaria Project, Washington, DC, United States

CAN OUTREACH, TRAINING AND SUPPORTIVE SUPERVISION (OTSS) IMPROVE COMPETENCY IN MALARIA DIAGNOSTIC TESTING AND CLINICAL CASE MANAGEMENT? AN EVALUATION OF OTSS+ IN CAMEROON, GHANA, NIGER, AND ZAMBIA

Carolina Vanderick
Managing Director, Tropical Health LLP, London, United Kingdom

HOW OTSS INFLUENCES HEALTH FACILITIES' READINESS AND HEALTH CARE WORKERS COMPETENCY TO PREVENT AND TREAT MALARIA IN NIGER

Dr. Daniel Koko
PMI Impact Malaria Project, Niamey, Niger

CHAMPIONS PROGRAM: IMPROVING MANAGEMENT OF SEVERE MALARIA IN CAMEROON

Dr. Germaine Ekoyol
National Malaria Control Program, Yaounde, Cameroon

Panel Discussion and Q&A on experiences with Quality Improvement in malaria-affected countries with session presenters and National Malaria Program representatives

Sponsored Symposia

Climate Change and Malaria Elimination: Perspectives from the Ground

Grand Hall K - Ballroom Level (East Tower)
Friday, October 20, 7 a.m. - 8:45 a.m.

Sponsored by Global Institute for Disease Elimination (GLIDE)

This sponsored symposium will review country experiences and perspectives on impacts of climate change on the global malaria response. Panelists will discuss effects of extreme weather events, rising sea levels, and changing rainfall patterns, which can directly impact the transmission dynamics of malaria.

Climate change can contribute to unpredictable rainy seasons and malaria patterns and create new breeding sites for mosquitoes. Differences in weather elements like temperature, rainfall distribution, and humidity greatly influence both the lifespan of mosquitoes and the development of malaria parasites within them and, subsequently, on malaria transmission. These complex interactions pose significant challenges to malaria elimination efforts, where resources and infrastructure may already be limited.

Understanding these interconnections will provide valuable insights into how changing climatic conditions influence malaria transmission dynamics, allowing countries to identify the challenges and vulnerabilities faced in their malaria elimination efforts under the influence of climate change, and to develop targeted strategies that address their specific context, enhancing resilience and effectiveness in combating malaria amidst a changing climate.

Chikungunya Virus: A Growing Preventable Risk to Travelers in a Warming Planet

Grand Hall J - Ballroom Level (East Tower)
Friday, October 20, 7 a.m. - 8:45 a.m.

Sponsored by Medscape

This interactive, 90-minute, discussion-based symposium will cover multiple aspects of Chikungunya virus (CHIKV) transmission and mosquito distribution with a focus on the impact of climate change on the reservoir, entomology and unpredictability of outbreaks and inability to prevent endemicity and imported cases in travellers. The symposium will raise physician awareness with two patient case studies assessing the difficulties in diagnosis and management and the symposium will conclude with outlining the need for a Chikungunya virus vaccine, the types of vaccines in development and latest vaccine clinical trial data.

7:15 AM
WELCOME AND INTRODUCTION
Lin H. Chen
Associate Professor of Medicine, Harvard Medical School, Boston, MA, United States

7:20 AM
ENTOMOLOGY, TRANSMISSION, MOSQUITO DISTRIBUTION, AND TRAVEL-RELATED EPIDEMIOLOGY AND RISK
Davidson H. Hamer
Professor of Global Health and Medicine, Boston University School of Public Health

7:30 AM
PANEL DISCUSSION ON OUTBREAK UNPREDICTABILITY, LACK OF AWARENESS, TRAVEL-RELATED RISKS, IMPACT OF CLIMATE CHANGE, AND MOSQUITO PROTECTION MEASURES
Lin H. Chen
Associate Professor of Medicine, Harvard Medical School, Boston, MA, United States

Davidson H. Hamer
Professor of Global Health and Medicine, Boston University School of Public Health

Rogelio López-Vélez
Director of the WHO Collaborating Centre for Clinical Management of Leishmaniasis, Ramón y Cajal Institute for Health Research, Madrid, Spain

Francesca F. Norman
National Referral Unit for Tropical Diseases, Infectious Diseses Department, Ramón y Cajal Hospital, Madrid, Spain

7:45 AM
CHALLENGES WITH DIAGNOSIS, CLINICAL PRESENTATION, AND MANAGEMENT
Francesca F. Norman
National Referral Unit for Tropical Diseases, Infectious Diseses Department, Ramón y Cajal Hospital, Madrid, Spain

Sponsored Symposia

7:55 AM
PANEL DISCUSSION: TRAVELER PATIENT CASES
Lin H. Chen
Associate Professor of Medicine, Harvard Medical School, Boston, MA, United States
Davidson H. Hamer
Professor of Global Health and Medicine, Boston University School of Public Health
Rogelio López-Vélez
Director of the WHO Collaborating Centre for Clinical Management of Leishmaniasis, Ramón y Cajal Institute for Health Research, Madrid, Spain
Francesca F. Norman
National Referral Unit for Tropical Diseases, Infectious Diseses Department, Ramón y Cajal Hospital, Madrid, Spain

8:05 AM
CHIKUNGUNYA VACCINES: WHERE ARE WE NOW?
Rogelio López-Vélez
Director of the WHO Collaborating Centre for Clinical Management of Leishmaniasis, Ramón y Cajal Institute for Health Research, Madrid, Spain

8:15 AM
PANEL DISCUSSION: WHO SHOULD BE VACCINATED, PRIORITIZATION, OUTBREAKS, AND OVERCOMING VACCINES HESITATION
Lin H. Chen
Associate Professor of Medicine, Harvard Medical School, Boston, MA, United States
Davidson H. Hamer
Professor of Global Health and Medicine, Boston University School of Public Health
Rogelio López-Vélez
Director of the WHO Collaborating Centre for Clinical Management of Leishmaniasis, Ramón y Cajal Institute for Health Research, Madrid, Spain
Francesca F. Norman
National Referral Unit for Tropical Diseases, Infectious Diseses Department, Ramón y Cajal Hospital, Madrid, Spain

8:30 AM
SUMMARY
Lin H. Chen
Associate Professor of Medicine, Harvard Medical School, Boston, MA, United States

8:35 AM
Q AND A

The Role of Antivirals for Prevention and Treatment of Dengue

Grand Hall J - Ballroom Level (East Tower)
Friday, October 20, 6:15 p.m. - 8:00 p.m.

Sponsored by Johnson & Johnson

Dengue is the most prevalent arboviral disease in human beings, with 3·6 billion people living in areas with risk of disease transmission, and with an estimated 390 million dengue infections and ~100 million dengue cases annually. There are currently no approved antivirals available to treat dengue, and preventative vaccines available do not offer protection against all serotypes. The only treatment against dengue is the preventive and supportive care. There is a strong need for integrated management of Dengue that includes preventive and therapeutic approaches to halt spread of this devastating disease.

CHAIR AND MODERATOR

Tine De Marez
Dengue Compounds Development Team Leader, Global Public Health R&D, Janssen Research & Development, LLC, Titusville, NJ, United States

OPENING AND INTRODUCTION
Tine De Marez
Dengue Compounds Development Team Leader, Global Public Health R&D, Janssen Research & Development, LLC, Titusville, NJ, United States

PROMISES AND CHALLENGES WITH DENGUE VACCINES
Anna P. Durbin
Professor, International Health and Director, Center for Immunization Research Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

JNJ-1802 FOR PRE-EXPOSURE PROPHYLAXIS OF DENGUE
Anna P. Durbin
Professor, Johns Hopkins School of Medicine, Baltimore, MD, United States

PERSPECTIVES OF POPULATIONS BENEFITING FROM AN ANTIVIRAL TO PREVENT DENGUE
Aaron Farmer
Director, Chief of Virology, AFRIMS, Bangkok, Thailand

DEPLOYMENT OF ANTIVIRALS AS A TOOL FOR OUTBREAK CONTROL IN ENDEMIC COMMUNITIES
Serge Masyn
Director Data Sciences,
Janssen R&D, Beerse, Belgium

MODERATED Q&A
Tine De Marez
Dengue Compounds Development Team Leader, Global Public Health R&D, Janssen Research & Development, LLC, Titusville, NJ, United States

Sponsored Symposia

PfHRP2/3 Deletion: A Call to Action

Crystal Ballroom A (Lobby Level – West Tower)
Friday, October 20, 6:15 p.m. – 8:00 p.m.

Sponsored by Abbott

Most malaria rapid diagnostic tests (RDTs) are ineffective in detecting hrp2/3 negative P. falciparum parasites. In recent years, the presence of this parasite has continued to grow in an increasing number of countries where costly ongoing monitoring efforts are required. New diagnostic solutions capable of identifying all P. falciparum parasites, regardless of gene deletion, is a recognized priority. Join us as a panel of experts will discuss the scope and significance of this threat, solutions to best address it, and the performance new technology can deliver.

USING ANALYTICAL SENSITIVITY DATA TO ANTICIPATE CLINICAL SENSITIVITY FOR MALARIA RDTS

Allison Golden
Scientific Program Officer
PATH, Seattle, Washington, United States

SURMOUNTING GLOBAL CHALLENGES OF HRP2/3 GENE DELETION IN MALARIA DIAGNOSTICS: THE ROLE OF FIND PARTNERSHIPS

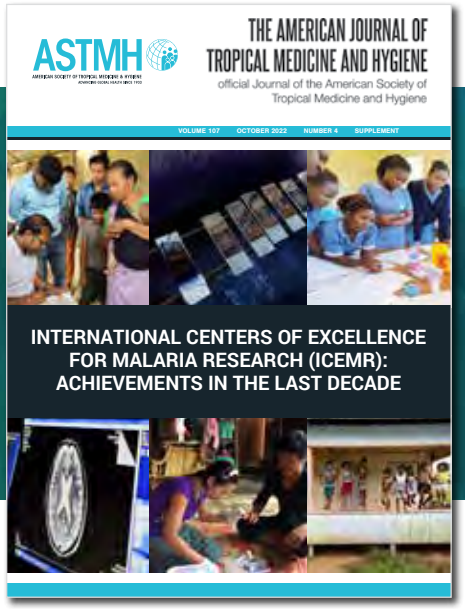
Ewurama Owusu
Scientist
FIND, Geneva, Switzerland

CLINICAL PERFORMANCE OF AN INVESTIGATIONAL RDT IN ETHIOPIA

Xavier Ding
Clinical Strategy Manager, Infectious Disease Emerging Markets
Abbott, Baar, Switzerland

Why Publish with the *American Journal of Tropical Medicine and Hygiene*?

- No submission fees
- Open Access publishing options
- Support for publishing research from low- and middle-income countries
- Have your research read by over one million readers every year from all over the world
- Average time to first decision is less than four weeks
- Advance online publication
- Low publication costs
- Publish supplemental data online at no charge



THANK YOU

To all of you who have published papers in the *Journal* and we look forward to your continued submissions. Remember, ASTMH members receive a discount on publishing fees. So, if you are not already a member, consider joining today.

astmh.org | **ajtmh.org**
@astmh | **@ajtmh**

#TropMed23
#IamTropMed #ASTMHinclusion

Onsite: What, When, Where, Badge Pick-Up/Registration

Social Media at the 2023 Annual Meeting

Follow the Annual Meeting on ASTMH social media channels.

Visit **astmh.org** to access all social media outlets as follows:

Subscribe to the ASTMH Facebook page for updates from the Annual Meeting and for relevant content year-round.

Follow **@ASTMH**. During the conference, you can follow what your colleagues are tweeting by using the **#TropMed23** and **#IamTropMed** hashtags. Also follow **@AJTMH** for *Journal* updates.

Enjoy archived video from past Annual Meetings, Alan Magill Symposia, webinars and interviews with pioneers in the field.

Follow ASTMH on LinkedIn. Raise your professional profile when you promote your Annual Meeting presentation, attendance, award or ASTMH membership.

Registration

Grand Ballroom Foyer – Ballroom Level (East Tower)

Annual Meeting Registration Hours

Wednesday, October 18	**9 a.m. – 7:30 p.m.**
Thursday, October 19	**7 a.m. – 5 p.m.**
Friday, October 20	**7 a.m. – 5 p.m.**
Saturday, October 21	**7 a.m. – 5 p.m.**
Sunday, October 22	**7 a.m. – 11 a.m.**

The following food functions are included in the registration fee:

- Opening reception (Wednesday)
- Student reception (Wednesday)
- Poster session lunches (Thursday, Friday, Saturday)
- Coffee breaks

Badges/Meeting Access

Participation in the Annual Meeting is limited to registered attendees. An official badge is required for admission to all sessions, social activities and exhibit area. If there is an error on a badge, please have it corrected at the registration desk.

Spouse/Guest Registration

(Only for those outside the tropical medicine and global health field.) Spouse/guest registration includes admission to the opening reception on Wednesday and admission to the exhibit hall, plenary sessions, poster sessions and food functions only.

Americans with Disabilities Act (ADA)

ASTMH fully complies with the legal requirements of the ADA and the rules and regulations thereof.

Hotel

Annual Meeting sessions and events will be held at the Hyatt Regency Chicago.

Hyatt Regency Chicago

151 E. Wacker Drive
Chicago, Illinois 60601 United States
+1-312-565-1234

Onsite: What, When, Where

Camera/Recording Restrictions and Unauthorized Photography

Only registered members of the media and attendees who receive prior approval from ASTMH staff may take cameras into the exhibit hall or use recording devices during sessions. Still and video photography, including photography by mobile phones, is strictly prohibited in educational sessions. Attendees found to be using cameras in educational sessions without permission will be asked to leave the conference and will not be issued a refund.

Solicitations

Sales and promotional activities are restricted to exhibitors and must take place in their assigned exhibit area. Solicitations by unauthorized persons are strictly prohibited.

Press Room

Randolph 1A – Concourse Level (East Tower)

The press room is available for professional journalists reporting on the conference. ASTMH media kits are available. Media announcements and other details can be found in the press room.

Press room hours of operation are:

Wednesday, October 18	**Noon – 5 p.m.**
Thursday, October 19	**7:45 a.m. – 5:00 p.m.**
Friday, October 20	**7:45 a.m. – 5:00 p.m.**
Saturday, October 21	**7:45 a.m. – 5:00 p.m.**

Impromptu Meeting Rooms for Attendees

Horner Room and Ogden Room - Third Floor (West Tower)

The Horner and Ogden rooms are designated for impromptu gatherings and other group meetings. Meeting room reservations are available on a first-come, first-served basis. Use the sign-up sheet located outside the rooms to reserve meeting time for your group.

Disclaimer

ASTMH is not responsible for the opinions expressed by speakers or the content of speaker slides and handout materials.

Miss a Session?

In-person attendees have access to the On-Demand content until October 1, 2024.

Livestream registrants will have access to livestreamed On-Demand content only.

Media/Press

The Annual Meeting is open to credentialed members of the press. To register for a press pass, please contact: Katy Lenard: +1-202-494-2584 **klenard@burness.com**

Special Event: Richard Hunt Sculpture Tour

Thursday, October 19
3:30 p.m. – 5 p.m.

Friday, October 20
3:30 p.m. - 5 p.m.

Meet at 3:15 p.m. in the lobby of the Hyatt Regency Chicago at the Wacker Drive entrance.

Please join us along with the Green Task Force for a Chicago Art Walk featuring the work of Chicago's own famous sculptor, Richard Hunt. According to Kinshasha Holman Conwill, Director of the Studio Museum in Harlem, "Hunt has been a major figure in American Art for forty years. His sculpture and public commissions have earned a singular place in the cultural landscape and public imagination." Jesus Lopes, a staff artist in Richard Hunt's Studio, will lead the tours.

Onsite: What, When, Where

Information for Speakers: Speaker Ready Room

Grand Suite 2AB – Ballroom Level (East Tower)

Hours

Wednesday, October 18	**Noon – 5 p.m.**
Thursday, October 19	**7 a.m. – 5 p.m. (Closed 11 a.m. – Noon)**
Friday, October 20	**7 a.m. – 5 p.m. (Closed 11 a.m. – Noon)**
Saturday, October 21	**7 a.m. – 5 p.m. (Closed 1 p.m. – 2 p.m.)**
Sunday, October 22	**7 a.m. – Noon**

Speaker Ready Rooms DOs and DON'Ts

- **DO** plan to submit your slides to the Speaker Ready Room at least one (1) day in advance of your scheduled session. Early presentation submittal is vital to a successful ASTMH Annual Meeting.
- **DO** arrive more than 30 minutes prior to your session time - late submissions are not guaranteed to arrive in your meeting room before your presentation!
- **DO NOT** bring your presentation directly to your meeting room!
- Presentation slides **must** be submitted to the Speaker Ready Room prior to your session. Please give yourself ample time to visit the Speaker Ready Room to submit your presentation slides.
- **DO** bring your presentation slides to the Speaker Ready Room on a USB storage device (flash drive, hard drive, etc.) if possible. Alternate submission options will be provided if necessary.
- **DO** bring all content/media associated with your presentation on the same USB storage device as your presentation. Media content includes pictures, audio files, videos, fonts, etc.
  - **DO** let the Speaker Ready Room staff know if your presentation includes any media content.
- **DO** create a backup copy of your presentation and media content using a secondary USB storage device, cloud storage (Dropbox, Google Drive, Microsoft OneDrive, etc.), or simply email the presentation to yourself – your inbox is a quick and simple way to store small files such as a PowerPoint presentation!
- Quicktime .mov, will not be compatible. Embedded audio should be saved in mp3 or .wav format.

Presentation Formatting

Aspect ratios

- All presentation slides should be created with a Widescreen 16:9 aspect ratio. All PowerPoint versions 2013 or later will automatically create slides with a 16:9 aspect ratio.
- Slide presentations using a 4:3 aspect ratio will display correctly, but black frames will appear on the sides of the screen. Please note 4:3 aspect ratios are largely outdated and should be avoided whenever possible.

Microsoft Powerpoint Formatting

- Powerpoint presentation slides should be saved in either ".ppt" or ".pptx" formats. Both are acceptable.

Macintosh/Apple Keynote Formatting

- Apple Keynote presentations will not be accepted and must be converted to ".pptx" format.
- Keynote presentations converted to Powerpoint presentations do not always convert properly. Converted Powerpoint presentations should be reviewed for accuracy and formatting prior to submission to the AV team in SRR.

Embedded Content and Hyperlinks

- All media content such as video or audio files **must** be embedded into the Powerpoint presentation. Hyperlinks within a presentation that lead to internet websites such as YouTube will not be accepted.
- Embedded videos should be saved as ".mp4," ".wmv," or ".mov" formats.
- Embedded audio files should be saved as ".mp3" or ".wav" formats.
  - ".aiff" audio files are not acceptable

Meeting Rooms

- All meeting rooms will be supplied with Windows computers (Windows 10 and the latest version of Microsoft PowerPoint), projectors, projection screens, microphones, a laser pointer, a slide advancer, and a confidence monitor (55" TV in front of the stage mirroring projector screens).
- All presentations will be operated from a Windows computer located at the tech table. **Note that the AV team will not be able to connect any presenters' computers to the video system.**

Continuing Education at TropMed23

Continuing Education Credit Continuing Medical Education (CME) Accreditation

ASTMH is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. ASTMH designates this live activity for a maximum of 26.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Register for CME Credit

The CME documentation fee is $200 US.

- Claim CME credit for one session during a period of concurrent sessions.
- Attendees with Livestream Registration can claim CME credit
- CME certificates will be sent by e-mail in December.
- Complete the CME Survey and CME Claim Form by Wednesday, October 25 **here**.

American Board of Internal Medicine (ABIM) Maintenance of Certification (MOC) Credit

Submit CME Survey and CME Claim Form by Wednesday, October 25 in order to receive ABIM MOC credit.

If you wish to receive ABIM MOC credit, you must register for CME credit for $200 US. We cannot issue ABIM MOC credit unless the registration includes payment for CME credit. Successful completion of this Annual Meeting CME activity, which includes a minimum participation threshold and participation in the evaluation component, enables the participant to earn up to 26.25 Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Your participation information, as well as your ABIM member ID and date of birth will be shared with the American Board of Internal Medicine via the Accreditation Council for CME PARS system for the purpose of reporting MOC completion.

PLEASE NOTE:

- The CME fee of $200 US must be paid in order to receive ABIM MOC credit.
- CME registrants seeking ABIM MOC credit must complete the CME Survey and CME Claim Form by Wednesday, October 25 in order to receive ABIM MOC credit.
- Pre-meeting courses are not eligible for ABIM MOC credit.
- Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity.
- Attendees seeking ABIM MOC credit must provide their ABIM MOC ID number and date of birth during the registration process.

Full-Disclosure Policy Affecting CME Activities

As a sponsor accredited by the Accreditation Council for Continuing Medical Education (ACCME), ASTMH must ensure balance, independence, objectivity and scientific rigor in all its individually sponsored or jointly sponsored educational activities. The Accreditation Council for Continuing Medical Education (ACCME) requires ASTMH to document that anyone in a position to control the content of an educational activity has disclosed all financial relationships with an ACCME-defined ineligible company. ASTMH must then mitigate relevant financial relationships so as not to affect the content of the presentation. This disclosure is intended to allow attendees to form their own judgments about such content.

Veterinarian Continuing Education Credit

To better serve the continuing education needs of the full range of disciplines participating in the Annual Meeting, ASTMH offers accredited CE sessions for veterinarians. The Society's application is reviewed by the American Association of Veterinary State Boards RACE Committee. Anticipating approval, ASTMH is typically notified just prior to the start of the Annual Meeting. On Wednesday, October 18, registrants for veterinarian continuing education will be sent an evaluation form by email. This form will indicate the sessions that qualify for veterinary CE credits. The fee to claim veterinarian continuing education credit is $200 US, payable upon registration.

ASTMH is at Work All Year Round!

Diploma Courses in Clinical Tropical Medicine and Travelers' Health

The Society advocates and facilitates the development of new training programs in clinical tropical medicine and travelers' health and has established a mechanism for accrediting them. These courses, known as Diploma Courses, may vary considerably in format and even in broad objectives, but to be accredited by the Society they must cover the topic matter included on the Certificate Exam and have an expectation of conferring on the examinee a certain degree of competence in the key subjects. Most confer a Diploma in Clinical Tropical Medicine and Travelers' Health; some confer a different diploma or degree in which the same expectations are included.

Virtual Update Course in Clinical Tropical Medicine and Travelers' Health

This two-day condensed course provides a broad overview of core topics in clinical tropical medicine and travelers' health. It is designed for all healthcare providers working in tropical medicine or travelers' health and for those planning to take the ASTMH Certificate Examination (CTropMed®).

CTropMed® — Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health

The next exam will be offered online in 2024. Fostering professional development in the fields of clinical tropical medicine and travelers' health is one of the Society's highest priorities. To that end, ASTMH developed the Certificate of Knowledge in Clinical Tropical Medicine and Travelers' Health (CTropMed® Program) as a means to distinguish individuals who have demonstrated advanced knowledge and experience in clinical tropical medicine and travelers' health. The CTropMed® Certificate is conferred on 1) licensed healthcare professionals applying via Practice Pathway or those healthcare professionals (regardless of licensure) who have passed an ASTMH accredited Diploma Course; 2) have direct experience in the fields of tropical medicine and/or travelers' health, and 3) have passed the ASTMH Examination in Clinical Tropical Medicine and Travelers' Health.

Fellow of ASTMH (FASTMH)

Fellow member status (also known as Fellowship) in the Society is an honor recognizing sustained professional excellence in any phase of tropical medicine, hygiene, global health and related disciplines.

Membership Directory

This resource, available exclusively to ASTMH members, puts thousands of experts in tropical medicine and global health at your fingertips. The directory provides member listings in alphabetical order and by geographic location to ease the search for colleagues around the world.

ASTMH
AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

THE AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE
official Journal of the American Society of Tropical Medicine and Hygiene

American Journal of Tropical Medicine and Hygiene

The *American Journal of Tropical Medicine and Hygiene*, the leading international journal in tropical medicine, is a peer-reviewed journal published monthly. Content includes original scientific articles and cutting-edge science covering new research with an emphasis on laboratory science and the application of technology in the fields of tropical medicine, parasitology, immunology, infectious diseases, epidemiology, basic and molecular biology,virology and international medicine. The *Journal* publishes unsolicited peer-reviewed manuscripts, invited review articles, short reports, case studies, reports on the efficacy of new drugs and methods of treatment, prevention and control methodologies, new testing methods and equipment, book reports and letters to the editor. Topics range from applied epidemiology in such relevant areas as AIDS to the molecular biology of vaccine development.

Why publish with the *American Journal of Tropical Medicine and Hygiene?*

- The leading journal focused on all aspects of tropical medicine
- Have your research read by 500,000 readers from all over the world
- No submission fees
- Low publication costs compared to many other journals
- Discounted publication costs for ASTMH members
- No charge to publish supplementary data online
- Support for publishing research from low- and middle-income countries
- Open Access publishing options
- A panel of Section Editors with expertise in all aspects of tropical medicine
- Average time to first review decision of less than four weeks
- Advance online publication

We would like to take the opportunity to thank all of you who have published papers in *AJTMH* and we hope you will continue to submit your research to us. Remember, ASTMH members receive a discount on publishing fees in the *Journal* so if you are not already a member, please consider joining today.

MARK YOUR CALENDAR

Mark Your Calendar for World Malaria Day 2024
April 25, 2024

World Malaria Day is observed each year on April 25 to give countries in affected regions a chance to learn from each other's experiences and support one another's efforts in the fight against malaria; to enable new donors to join in a global partnership against malaria and for research and academic institutions to reveal scientific advances to the public; and to give international partners, companies and foundations a chance to showcase their efforts and reflect on how to scale-up what has worked.

GOTropMEd, the ASTMH Global Online Tropical Medical Education website, is a members-only benefit offering online talks and presentations by world experts in tropical medicine, hygiene and global health. Researchers, clinicians, students, trainees and health professionals can access more than 225 resources curated especially for the Society's digital education efforts. Watch interviews with TropMed luminaries, brush up on science presented at Annual Meetings, learn professional development skills and more.

Stop by the TropMed Hub in the Exhibit Hall to learn more.

GOTropMEd.astmh.org

Free and unlimited access to GOTropMEd is a benefit of membership to ASTMH. Non-members will need to join ASTMH to access GOTropMEd.

ASTMH
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Check Out Our Online Page for Students, Trainees, Post-Docs, Medical Residents and Fellows

Your one-stop-shop to help build fundamental skills and perspectives for a successful start to Tropical Medicine/Global Health Careers:

- Membership Benefits
- Subgroup Information
- Career Center
- Fellowships and Awards
- Clinical Research Award Competition
- Annual Meeting
- Young Investigator Awards
- Advocacy
- Trainee Chats

Look for the Pre-/Post-Docs page under the Education & Resources tab on the ASTMH website.

ASTMH Board, Subgroup and Committee Meetings

Wednesday, October 18

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) SIE Subcommittee Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 11 a.m. - Noon

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) SIRACA Subcommittee Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, Noon - 2 p.m.

Young Investigator Award Committee Meeting

Regency Ballroom A - Ballroom Level (West Tower)
Wednesday, October 18, 2 p.m. - 3:30 p.m.

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) SALS Subcommittee Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 2 p.m. - 3:30 p.m.

ACCTMTH Clinical Research Award Committee Meeting

DuSable - Third Floor (West Tower)
Wednesday, October 18, 3 p.m. - 4 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Skyway 260 - Skyway Level (East Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m.

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Council Meeting

Gold Coast - Concourse Level (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m.

Clinical Group (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH) Council Meeting

McCormick - Third Floor (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m.

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Council Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m.

ASTMH Committee on Global Health (ACGH) Council Meeting

Columbian - Concourse Level (West Tower)
Wednesday, October 18, 4 p.m. - 5:30 p.m.

Thursday, October 19

International Membership Committee Meeting

Haymarket - Concourse Level (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m.

Diploma Course Directors Meeting

Wright - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m.

AJTMH Editorial Board Meeting

McCormick - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m.

Centennial Travel Award Committee Meeting

DuSable - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m.

Membership Committee Meeting

Michigan 1B - Concourse Level (East Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m.

Ben Kean Fellowship Committee Meeting

Michigan Boardroom - Concourse Level (East Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m.

Digital Education Committee Meeting

Michigan 1A - Concourse Level (East Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m.

ASTMH Board, Subgroup and Committee Meetings

Friday, October 20

Burroughs Wellcome Fund - ASTMH Fellowship Committee Meeting

Michigan Boardroom - Concourse Level (East Tower)
Friday, October 20, 7 a.m. - 8 a.m.

Trainee Membership Committee

McCormick - Third Floor (West Tower)
Friday, October 20, 7 a.m. - 8 a.m.

CTropMed Exam Committee Meeting

Wright - Third Floor (West Tower)
Friday, October 20, 12:15 p.m. - 1:30 p.m.

Saturday, October 21

Diploma Course Certification Committee Meeting

Gallery 3 Boardroom - Skyway Level (West Tower)
Saturday, October 21, 7 a.m. - 8 a.m.

ASTMH Presidents Meeting

Michigan 3 - Concourse Level (East Tower)
Saturday, October 21, 7 a.m. - 8 a.m.

Scientific Program Committee Meeting

Michigan 1A/B/C - Concourse Level (East Tower)
Saturday, October 21, 7 a.m. - 8 a.m.

Clinical Group (ACCTMTH) Past Presidents Meeting

Michigan 1A - Concourse Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m.

VISIT THE EXHIBIT HALL

Riverside Center – Exhibit Level (East Tower)

Visit the Exhibit Hall to connect with organizations sharing the latest products, services, and programs in tropical medicine/global health.

STOP BY THE EXHIBIT HALL

- Opening Reception following the Opening Plenary and Awards Ceremony on Wednesday, October 18
- Morning and afternoon hours include coffee breaks
- Mid-day hours include lunch locations

DON'T MISS THE TROPMED HUB. LEARN ABOUT

- ASTMH membership and year-round activities
- *American Journal of Tropical Medicine and Hygiene (AJTMH)* and how to submit material to the Journal
- GOTropMEd, the member-only digital education platform
- The Society's five subgroups and how to get involved
- American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV)
- American Committee of Medical Entomology (ACME)
- American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH)
- American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)
- ASTMH Committee on Global Health (ACGH)

2023 Annual Meeting

Exhibit Hall Hours

Wednesday, October 18
7 p.m. – 9:30 p.m. Opening Reception

Thursday, October 19
9:30 a.m. – 10:30 a.m.
Noon – 1:30 p.m.
2:15 p.m. – 3:15 p.m.

Friday, October 20
9:30 a.m. – 10:30 a.m.
Noon – 1:30 p.m.
3:15 p.m. – 4:15 p.m.

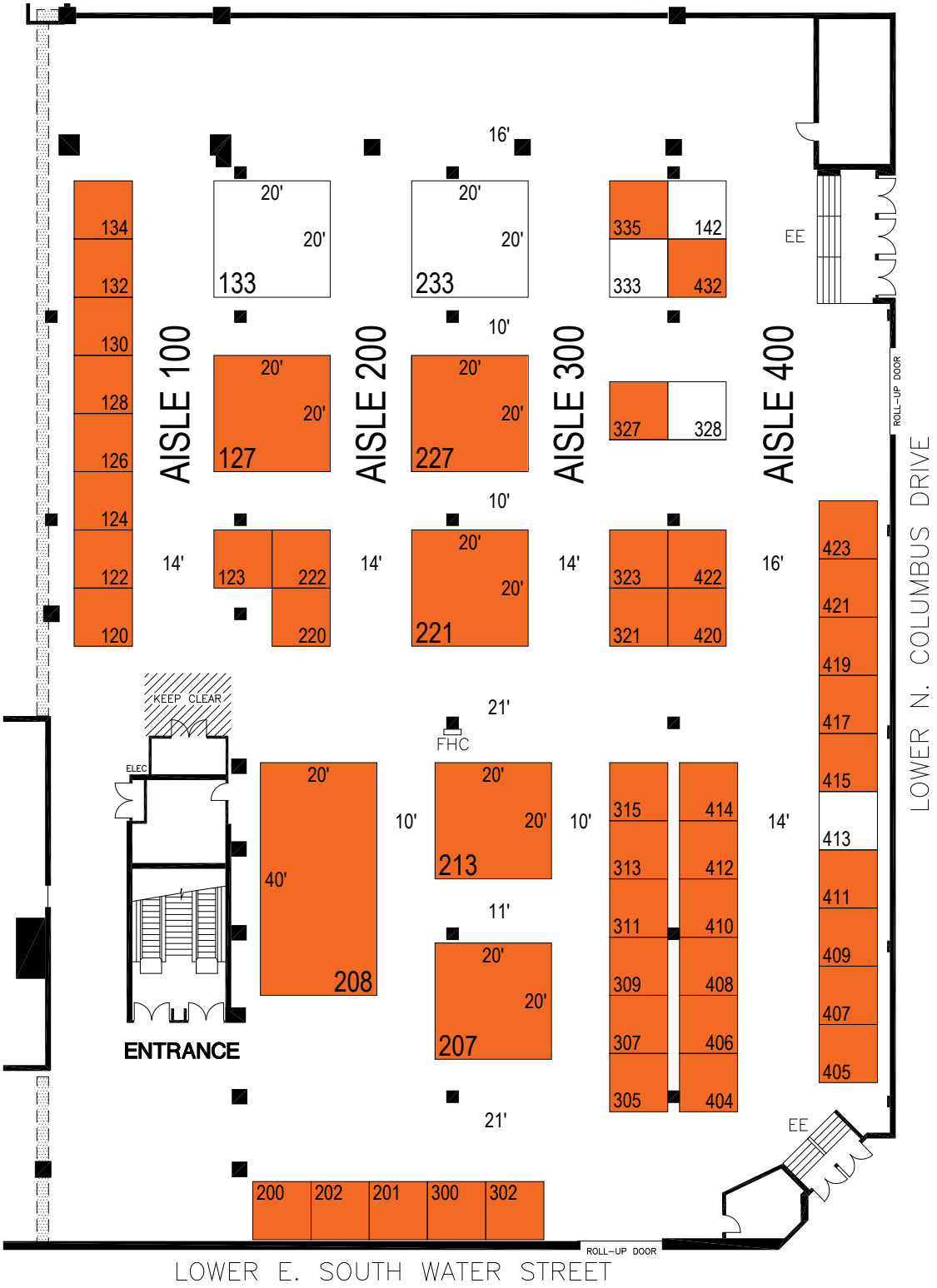
Saturday, October 21
9:30 a.m. – 10:30 a.m.
11 a.m. – 12:30 p.m.

FROM EVIDENCE *to* ACTION

Thank you to all the 2023 Exhibitors.
See you in the Exhibit Hall!

Exhibitor List

Exhibit Hall Floor Plan



2023 Contributor, Exhibitor, Sponsor and Supporter Directory

Abbott

PRINCIPAL SPONSOR

SPONSORED SYMPOSIUM SPONSOR

Booth 208

LinkedIn: Abbott | Diagnostics : Overview | LinkedIn
Instagram: Abbott (@abbot global)
Twitter: Abbott (@AbbottNews) / X (twitter.com)

Abbott is a global leader in point-of-care (POC) diagnostics with a comprehensive portfolio of rapid tests, services, and handheld devices for use in a wide variety of healthcare settings: labs, clinics, remote healthcare outposts, retail outlets, the patient's bedside and at home. Abbott's offering of near-patient tests and services spans key health and therapeutic areas, including infectious disease, cardiometabolic, informatics, toxicology and consumer diagnostics.

Abt Associates

Booth 419

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Abt Associates
@PMIgov

Abt Associates is a global consulting and research firm that combines data and bold thinking to improve the quality of people's lives. We collaborate with clients and communities to advance equity and innovation—creating scalable digital solutions to combat infectious disease, mitigating climate change, and evaluating programs for measurable social impact. Abt has partnered with the U.S. President's Malaria Initiative on vector control programs for 11 years, and leads the PMI Evolve Project.

ADAPT-One-Health

Booth 120

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Phone :+4917661360325
ahmed.abd_el_wahed@uni-leipzig.de
adaptonehealth.net

ADAPT: African One Health Network for Disease Prevention: Building Capacity for Sustainable Antimicrobial Stewardship Across sub-Saharan Africa. The mission of ADAPT is to build the capacity across sub-Saharan African countries for the improved management of antimicrobial resistance (AMR) and neglected tropical diseases (NTDs), and for the improved stewardship of antimicrobials, using a One Health approach in partnership with state, local, and regional stakeholders.

altona Diagnostics

Booth 321

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BEI Resources

Booth 130

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+1-800-359-7370
Contact@BEIResources.org
www.beiresources.org/

BEI Resources, funded by NIAID, is the leading source for high-quality cultures and reagents for studying antibiotic resistance, vector borne, emerging and opportunistic microbial diseases, AIDS, epidemiology and public health. Explore the catalog and benefits we offer at www.beiresources.org, and let us serve as a catalyst for your research efforts.

2023 Contributor, Exhibitor, Sponsor and Supporter Directory

Bill & Melinda Gates Foundation

SPONSOR

P.O. Box 23350
Seattle, WA 98102 USA
Phone: +1-206-709-3100
Email: **info@gatesfoundation.org**
Website: **www.gatesfoundation.org**

Guided by the belief that every life has equal value, the Bill & Melinda Gates Foundation works to help all people lead healthy, productive lives. In developing countries, it focuses on improving people's health and giving them the chance to lift themselves out of hunger and extreme poverty. In the United States, it seeks to ensure that all people—especially those with the fewest resources—have access to the opportunities they need to succeed in school and life. Based in Seattle, Washington, the foundation is led by CEO Mark Suzman, under the direction of co-chairs Bill Gates and Melinda French Gates and the board of trustees.

BioFire Defense

Booth 123

Ryan Gregerson
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Salt Lake City, UT 84107 USA
+1-801-262-3592
Ryan.Gregerson@BioFireDefense.com
www.biofiredefense.com/
@BiofireDefense

At BioFire Defense we deliver an integrated suite of biological agent identification products, including BioFire® FilmArray® and BioFire® Global Fever Panel. With just one test, bacterial, viral and protozoan targets can be identified in whole blood in under an hour. Our products and services speed up medical results, help people stay healthy, and make communities more secure.

Biomedical Research Institute

Booth 405

Margaret Mentink-Kane
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(703) 786-9262
mmentinkkane@afbr-bri.org
www.afbr-bri.org/

The Schistosomiasis Resource Center (SRC) at the Biomedical Research Institute is a unique schistosomiasis research supply laboratory funded by the NIAID at the National Institutes of Health. The SRC provides Schistosoma life cycle reagents free of charge to scientists, students, biotech and independent investigators in the U.S. and around the world. In addition to fostering the development of schistosomiasis research, the SRC offers technical assistance to laboratories on snail propagation and maintenance, parasite collection and animal infection protocols. A team of SRC technicians propagate and maintain several Schistosoma life cycles so that we can supply you with reagents to advance your projects.

Burroughs Wellcome Fund

SUPPORTER

P.O. Box 13901
Research Triangle Park, NC 27709 USA
+1-919-991-5100
www.bwfund.org
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@BWFPATH

The Burroughs Wellcome Fund is an independent private foundation dedicated to advancing the biomedical sciences by supporting research and other scientific and educational activities. Within this broad mission, BWF has two primary goals: To help scientists early in their careers develop as independent investigators and to advance fields in the basic biomedical sciences that are undervalued or in need of particular encouragement. BWF's financial support is channeled primarily through competitive peer-reviewed award programs.

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Carramore International Ltd

Booth 142

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www.carramore.com

Carramore is a supplier of customized services to medical and life science research in LMICs, involving product sourcing and supply, and including the associated logistics. Our reputation is founded on our ability to anticipate, overcome and manage the challenges that arise, and the last few years have seen the logistical complications and regulatory requirements increase significantly. Our experience in meeting such challenges is unsurpassed and we are actively supplying into over 70 countries in Africa and Asia.

Chan Zuckerberg Initiative Foundation

Booth 421

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chanzuckerberg.com/

The mission of the Chan Zuckerberg Initiative (CZI) is to support the science and technology that will make it possible to cure, prevent, or manage all diseases by the end of this century. Chan Zuckerberg ID (CZ ID) is a free, open-source pathogen genomics analysis platform developed by CZI that empowers researchers to detect and discover infectious diseases, contributing to the management, prevention, and treatment of infectious diseases worldwide. CZ ID supports analysis for metagenomics, antimicrobial resistance, and viral consensus genomes.

Centers for Disease Control and Prevention

Booth 126

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rgold@cdc.gov

Cephla (+ Prakash Lab, Stanford University)

Booth 417

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(669) 247-2178
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hongquan@cephla.com

Cephla will focus on its non-profit branch on automated microscopes for diagnosis of infectious diseases including malaria and TB.

CURE ID

Booth 128

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cure.ncats.io
@id_cure

CURE ID is a website and mobile app that is a collaboration between FDA and NCATS/NIH. It serves as tool for collecting case reports on how existing drugs are being used in new ways to treat infectious diseases that lack adequate approved therapies. Clinicians and patients can share how drugs have been repurposed to treat their diseases with unmet medical needs.

Doctors Without Borders/Médecins Sans Frontières (MSF)

Booth 412

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Drugs for Neglected Diseases initiative

Booth 414

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www.dndi.org
@DNDi

The Drugs for Neglected Diseases initiative (DNDi) is an international, not-for-profit research and development organization. We discover, develop, and deliver treatments for neglected patients around the world. Our treatments are affordable and patient-friendly – and have already saved millions of lives.

Eck Institute for Global Health

Booth 404

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globalhealth.nd.edu
@NDEckInstitute

The University of Notre Dame's Eck Institute for Global Health (EIGH) serves as a university-wide enterprise that recognizes health as a fundamental human right and works to promote research, training, and service to advance health standards and reduce health disparities for all. The EIGH brings together multidisciplinary teams to understand and address health challenges that disproportionately affect the poor and to train the next generation of global health leaders.

Elsevier

Booth 307

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www.us.elsevierhealth.com/

Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions, and deliver better care.

Global Institute for Disease Elimination (GLIDE)

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Booth 122

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www.glideae.org
@GLIDE_AE

The Global Institute for Disease Elimination (GLIDE) is a global health Institute based in Abu Dhabi, focused on accelerating the elimination of preventable infectious diseases: currently malaria, polio, lymphatic filariasis, and river blindness, by 2030 and beyond. GLIDE works in partnership to elevate awareness and engagement, advance elimination strategies, and foster and scale innovation. The Institute was founded in 2019 as the result of a long-standing collaboration between His Highness Sheikh Mohamed bin Zayed Al Nahyan, President of the UAE, and the Bill & Melinda Gates Foundation.

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Got Fakes?

Booth 309

Department of Chemistry and Biochemistry
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www.padproject.nd.edu/

Hands-on demonstrations of technologies for finding fake medicines, not sponsored by instrument manufacturers.

GSK

Booth 221

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www.gsk.com/en-gb/

GSK, GLOBAL HEALTH Global Health is a cornerstone of our ESG agenda & one of the areas of responsible business that matter most to us. Our purpose is to unite science, technology & talent to get ahead of disease together.

Henry M. Jackson Foundation for the Advancement of Military Medicine

Booth 220

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@HJFMilMed

HJF partners with government, academia, and industry to implement tropical medicine research programs, developing novel countermeasures for the detection, prevention, and treatment of infectious diseases. HJF administers a diverse biomedical portfolio at civilian and military treatment facilities and laboratories worldwide to perform tropical medicine research. From vaccine development to surveillance and epidemiology, HJF drives infectious disease research success by aiding funded programs in strengthening and diversifying their research portfolios.

HUMAN Gesellschaft fuer Biochemica und Diagnostica mbH

Booth 200

Dr. Christine Hettmann-Dreuw
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info@human.de
www.human.de

Established in 1972, HUMAN is a leading IVD industry player since over 50 years, offering a diverse portfolio from clinical chemistry to innovative diagnostics. With a vast network spanning 160+ countries, HUMAN is a trusted partner to medical labs and organizations. Headquartered in Germany, with regional offices in UAE, Singapore, China, India, and Panama, HUMAN prioritizes sustainability, holding ISO 14001 and EMAS certifications for its eco-friendly practices.

InBios International, Inc.

Booth 432

Wendy Bagnato
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Seattle, WA 98109 USA
+1-206-344-5821
wendy@inbios.com
www.inbios.com

At InBios we believe an accurate diagnosis is the first step to effective treatment. Our mission has been to develop innovative, superior quality, cost-effective diagnostics for emerging infectious diseases and biothreats. All products are manufactured in the USA, and several have FDA market approvals. Since 1996, InBios has been a trusted source of urgent response to public health threats. We have been here for soldiers in the Gulf contracting Leishmaniasis, Chagas transmission in the Americas, surges and outbreaks of West Nile, Dengue, Chikungunya and Zika around the world, and most recently the 2020 COVID-19 pandemic. Assays in the pipeline or available for export include diagnostics for Chikungunya, Scrub Typhus, Strongyloidiasis, Melioidosis, and Filaria.

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Integrated DNA Technologies

Booth 335

Jim Huntley
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jhuntley@idtdna.com
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@idtdna

IDT leads the industry in the manufacture of custom oligonucleotides for molecular biology applications. We've developed proprietary technologies for genomics applications, such as Next Generation Sequencing, CRISPR genome editing, qPCR, and RNA interference. Through our GMP services, we manufacture products used in diagnostic tests for many forms of cancer and most inherited and infectious diseases. We are continually improving IDT synthesis platforms, processing technology, and automation, as well as our rapid prototyping and custom production.

IAMAT – International Association for Medical Assistance to Travellers

SUPPORTER

FSIMT/IAMAT
202 – 10 Morrow Avenue
Toronto, Ontario M6R 2J1 Canada
info@iamat.org
www.iamat.org
@IAMAT_Travel

IAMAT (International Association for Medical Assistance to Travellers), a division of the Foundation for the Support of International Medical Training, awards scholarships to doctors and nurses from countries where travel medicine is an emerging specialty. Our scholars introduce travel health services and improve health standards in their community, benefiting local patients and travellers. Since 1990, IAMAT/FSIMT has sponsored the annual Vincenzo Marcolongo Memorial Lecture in honor of its founder, a specialist in tropical medicine who dedicated his life to the health needs of travelers.

International Society of Travel Medicine

Booth 201

Whitney Alexander
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www.istm.org/index.asp
@_ISTM_

The ISTM is a vibrant and inclusive international society organized and operated exclusively for educational, scientific and charitable purposes, and is committed to ongoing and sustained contributions to the advancement of travel and migration medicine globally. The ISTM is dedicated to promoting healthy, safe, and responsible travel and movement of all people crossing borders by facilitating advancement of epidemiological surveillance and research, education and service in travel and migration medicine, to the benefit of individuals and communities.

Johnson & Johnson

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Website: **www.jnj.com/gph**
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At Johnson & Johnson, we believe good health is the foundation of vibrant lives, thriving communities and forward progress. Through a dedicated global public health (GPH) organization, we established a team of innovators who put the world's most vulnerable at the heart of everything we do—measuring our success in lives impacted. Our mission is to make relevant innovations that save lives, cure patients and prevent disease available, affordable and accessible for the world's most underserved communities.

MCD Global Health

Booth 315

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Medicines Development for Global Health

Booth 422

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Medicines Development for Global Health is an independent, not-for-profit, biopharmaceutical company dedicated to the development and delivery of affordable medicines for the people who need them most.

Medigen, Inc

Booth 408

Peter Pushko
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www.medigen-usa.com

Medigen, Inc offers cGMP production and fill finish services for viruses and virus-based vaccines. We specialize on FDA and ICH compliant cGMP manufacturing of virus banks, cell banks (master and working), production of attenuated viruses, virus vectors and protein drug substance, as well as fill finish services for vaccine drug products. Customer-centric approach; Virus GMP Manufacturing; Virus GMP Banking; Live viruses; Virus vectors; Virus-Like Particles; Oncolytic viruses; Finished Drug Product; Adenovirus Vector; Herpes Virus; Baculovirus; Influenza; Chikungunya; Lassa; VEE; Dengue; Japanese encephalitis; yellow fever.

Medscape

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Booth 132

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Noul Co., Ltd.

Booth 311

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Noul develops innovative products called miLab, that deliver accurate, hospital-grade diagnostic testing even to local clinics lacking full lab infrastructure. It fully automates the entire process from sample preparation to embedded AI-based analysis. miLab is blazing a new trail in decentralized diagnostic testing, finding its applications in a wide array of diagnostic tests, including but not limited to malaria diagnostics, blood analysis, and cancer screening.

Novartis

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ovartis is a focused innovative medicines company. Every day, we work to reimagine medicine to improve and extend people's lives so that patients, healthcare professionals and societies are empowered in the face of serious disease. Our medicines reach more than 250 million people worldwide."

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Oxford Centre for Tropical Medicine and Global Health

Booth 305

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www.tropicalmedicine.ox.ac.uk
@TropMedOxford

Our Centre is a network of research groups based in Oxford, Africa and Asia. Focussing on national health priorities where we operate, our aim is to tackle infectious diseases, from malaria, TB and COVID to neglected tropical diseases and emerging infections. Our research ranges from clinical studies to behavioural sciences, with capacity building integral to all our activities. Our research facilities are among the largest and most enduring run by any university overseas. In addition to basic research, diagnostics development, clinical trials and implementation, we run training programmes for research scientists. We aim to provide world class research facilities, coupled with a strong ethos of capacity development.

Panadea Diagnostics GmbH

Booth 124

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Panadea Diagnostics GmbH, as a science driven biotech company in a strong partnership with the Bernhard Nocht Institute for Tropical Medicine, also has a keen focus on the development and manufacture of top quality tests for tropical and emerging infectious diseases. With our patented technology platform, our immunoassay tests have superior specificity and sensitivity, especially for priority diseases in the WHO blueprint list.The outstanding performance characteristics make them ideal for scientists, researchers and health authorities, for their tasks of outbreak monitoring, infection surveillance, and seroprevalence studies.

Parasites Without Borders

SPONSOR

Booth 213

Daniel Griffin
23 Murray Avenue
Port Washington, NY 10050 USA
+1-888-963-8970
info@parasiteswithoutborders.com
parasiteswithoutborders.com/
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A comprehensive, advanced educational resource and disseminator of basic and clinical information dealing with all aspects of the global problems associated with the acquisition of parasitic diseases that adversely affect people around the world.

Physicians for Human Rights

Booth 411

256 West 38th Street, 9th Floor
New York, NY 10018 USA
+1-646-564-3759
info@phr.org
phr.org/
@P4HR

Physicians for Human Rights (PHR), which shared in the 1997 Nobel Peace Prize, works at the intersection of medicine, science, and law to end human suffering, save lives, and secure justice and universal human rights. Together with partner health professionals and allies in the law enforcement and legal sectors, PHR investigates and documents human rights violations, strengthens the skills of frontline human rights defenders, and supports accountability processes through incontrovertible forensic evidence and targeted advocacy.

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Rapigen Inc

Booth 410

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michelle@rapigen-inc.com
rapigen-inc.com/

We are the pioneers of diagnostic kit and technology, specializing in the area of in-vitro diagnostics with excellent source of technology. Rapigen's products, which were the first to be commercialized using the Black Gold Nano Particles technology within the rapid diagnostic kit industry, are manufactured based on excellent standards of product quality and improved reproducibility. Currently, we are exporting our products to more than 52 countries around the world, carrying out various projects and collaborations with diverse international entities, and pioneering a comprehensive array of services, to support diversified OEM customization service through an innovative R&D.

Robert J. Havey, MD Institute for Global Health

Booth 207

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@FSMGlobalHealth

The Havey Institute for Global Health works to expand knowledge, capacity and equity in global health through transdisciplinary research and education partnerships.

Rotarians Against Malaria - GLOBAL Rotary Action Group (RAM-G RAG)

Booth 406

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RAM-G
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+1-303-601-6013
dperlman1@mac.com
ram-global.org

Engage, Educate, and Partner with Rotarians, Scientists, and Governments, to Innovate, Share, and Scale Up Efforts in the Fight Against Malaria

RTI International

Booth 420

3040 East Cornwallis Road
Durham, NC 27709 USA

RTI International is both a global research institute and a leading international development organization. We combine these powerful capabilities with those of our partners to co-create smart, shared solutions for a more prosperous, equitable, and resilient world.

Sabin Vaccine Institute

SPONSOR

Rajee Suri, VP Communications
rajee.suri@sabin.org
2175 K Street, NW Suite 400
Washington, DC 20037
Sabin.org
@SabinVaccine

Our Vision Is a Future Free From Vaccine-preventable Diseases. We are dedicated to making vaccines more accessible, enabling innovation and expanding immunization across the globe.

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Save the Children

Booth 423

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Fairfield, CT 06825 USA
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asharmin@savechildren.org
savethechildren.org
@SavetheChildren

Because every child deserves a healthy start in life, Save the Children USA's Department of Global Health supports the delivery of high-impact health services to improve the health of children and their families living in areas of disproportionately low health service coverage, every day and in times of crisis. Our goal is to ensure, by 2030, no child dies from preventable causes before their fifth birthday and that children have a healthy start in life. Together with children, families and communities, as well as supporters around the world, we focus on programs and advocate for policies that improve health and nutrition, end hunger, and prevent and treat childhood illnesses.

Shoreland Travax

Booth 202

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www.shoreland.com

Log in to the world of travel medicine. To be on top of the world, you need Travax – the premier clinical decision support tool for travel medicine practitioners. Travax offers the clearest independently researched health and safety risk-mitigation recommendations available. Searchable malaria, yellow fever, and elevation maps let you quickly see if a traveler's destination presents a risk.

Takeda

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Booth 222

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U.S. President's Malaria Initiative (PMI) PMI Impact Malaria project

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Booth 300

Taylor Prochnow
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@Impact_Malaria

As the flagship global service delivery project of the U.S. President's Malaria Initiative (PMI), the PMI Impact Malaria team works with national malaria programs to fight malaria and save lives by strengthening diagnosis, treatment, and drug-based prevention for those most at risk, particularly children and pregnant women.

University of Minnesota - Global Medicine

Booth 302

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@UMNGlobalHealth

University of Minnesota Department of Medicine Global Medical Education is committed to improving the health of individuals and communities globally. We are engaged in global health teaching, research, and clinical care which is values based and which improves the health of individuals and communities. We offer a wide range of courses, in-person and online, to meet your educational needs including: CTropMed Certification training/ preparation, our Global Health Course, Asian Clinical Tropical Medicine Course, and Interactive Case learning.

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University of Notre Dame Paper Analytical Device Project

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Hands-on demonstrations of technologies for finding fake medicines, not sponsored by instrument manufacturers.

University of Texas Medical Branch-Galveston

Booth 323

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The University of Texas Medical Branch (UTMB) is a leader in tropical and emerging infectious diseases research. Coordinated leadership of multiple Departments, Institutes, Centers, the high-containment Galveston National Laboratory, and multiple international programs form the backbone of UTMB's Infectious Disease research community of >130 principal investigators. State-of-the-art high-containment facilities enable a wide breadth of research activities. Multiple training opportunities, including NIH-funded T32 training programs are available to predoctoral and postdoctoral scientists, clinical trainees, and physicians.

Vectech

Booth 409

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www.vectech.io/
@VectechAI

We use AI to identify vectors and improve data-driven vector control.

VEuPathDB

Booth 415

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Walter Reed Army Institute of Research (WRAIR)

Booth 313

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The Walter Reed Army Institute of Research is the largest biomedical research facility administered by the DOD and the oldest research institution in the Army. Across the globe, WRAIR works with civilian researchers, medical professionals, and military members to develop and test products to reduce the impact of infectious diseases. Additionally, WRAIR conducts basic and applied research that promotes psychological resilience, enhances neurological functioning, and improve Warfighter readiness.

Valneva USA Inc.

Booth 127

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US Marketing Manager
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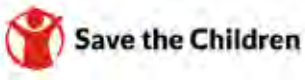
Sheri.HALL@valneva.com
www.valneva.us/en/
Twitter: @ValenvaUSA

Valneva is a specialty vaccine company focused on the development and commercialization of prophylactic vaccines for infectious diseases with significant unmet medical need. Our vision is to contribute to a world in which no one dies or suffers from a vaccine-preventable disease. Valneva USA, Inc. markets and distributes Valneva's Japanese encephalitis vaccine, IXIARO®, in the US. The company has leveraged its expertise and capabilities both to successfully commercialize two vaccines and to rapidly advance a broad range of vaccine candidates into and through the clinic, including candidates against Lyme disease, the chikungunya virus and COVID-19.

2023 Exhibitors



Wednesday, October 18

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)
Wednesday, October 18, 9 a.m. - 7:30 p.m. U.S. Central Time Zone

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Wednesday, October 18, 7 a.m. - 7 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Wednesday, October 18, 7 a.m. - 7 p.m. U.S. Central Time Zone

Global Health (ACGH) Pre-Meeting Course: Effectively Communicating in Global Health: The Science of Public Engagement and Lessons from the Field

Michigan 3 - Concourse Level (East Tower)
Wednesday, October 18, 9 a.m. - 3:30 p.m. U.S. Central Time Zone

The purpose of this course is to provide global health professionals tools they need to improve their engagement with community partners and their communication with media, governments, healthcare professionals and the general public. In this course, participants will first learn methodologies of developing successful public engagement activities and initiatives and will hear from experts in the field of community and public engagement. They will then learn didactic and pragmatic tools for communicating in science and the science behind these tools and gain more specific tools tailored to global health work from professionals working in public health. By the end of the course, participants will have learned the skills needed to more effectively communicate their work to various different audiences.

At the end of the activity, participants will be able to:

- Understand the basic principles of public engagement, science communication and community outreach;
- Consider the different audiences in global health communication and tools for reaching them;
- Describe the best approaches for community outreach;
- Compare/contrast the differences between community outreach and communicating scientific content; and
- Develop a toolkit that can be used for communicating their work in the future.

COURSE CO-CHAIRS

James Colborn
Clinton Health Access Initiative, Inc., Evergreen, CO, United States

Hannah Bialic
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

9 a.m.
WELCOME, INTRODUCTION OF TOPICS AND LOGISTICS
James Colborn
Clinton Health Access Initiative, Inc., Evergreen, CO, United States

Hannah Bialic
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

9:15 a.m.
COMMUNITY ENGAGEMENT IN NORTHEAST THAILAND
Tom Crellen
University of Glasgow, Glasgow, United Kingdom

9:15 a.m.
COMMUNITY ENGAGEMENT IN NORTHEAST THAILAND
Arporn Wangwiwatsin
Khon Kaen University, Khon Kaen, Thailand

9:45 a.m.
COMMUNITY ENGAGAMENT AND HEALTH MESSAGING IN MALAWI
Janelisa Musaya
Kamuzu University of Health Sciences, Blantyre, Malawi

10:15 a.m.
PUBLIC ENGAGEMENT IN GLOBAL HEALTH: HOW, WHERE AND WHY (WORKSHOP)
Hannah Bialic
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

10:15 a.m.
PUBLIC ENGAGEMENT IN GLOBAL HEALTH: HOW, WHERE AND WHY (WORKSHOP)
Julian C. Rayner
Cambridge Institute for Medical Research, University of Cambridge, Cambridge, United Kingdom

11:30 a.m.
BREAK

11:45 a.m.
PANEL DISCUSSION - COMMUNITY OUTREACH AND PUBLIC ENGAGEMENT
Tom Crellen
University of Glasgow, Glasgow, United Kingdom

Arporn Wangwiwatsin
Khon Kaen University, Khon Kaen, Thailand

Janelisa Musaya
Blantyre, Malawi

12:15 p.m.
LUNCH BREAK

1 p.m.
INTRODUCTION OF AFTERNOON SESSION
James Colborn
Clinton Health Access Initiative, Inc., Evergreen, CO, United States

Hannah Bialic
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

1:15 p.m.
COMMUNICATING SCIENCE TO THE MEDIA
Jennie Bragg
Malaria No More, Washington, DC, United States

2 p.m.
RISK COMMUNICATIONS – STRATEGIES TO COMMUNICATE PUBLIC HEALTH INFORMATION DURING OUTBREAKS
Jessica Anderson
U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

2:30 p.m.
RESEARCH ELEVATOR PITCH INTERACTIVE SESSION
Hannah Bialic
Wellcome Centre for Integrative Parasitology, University of Glasgow, Glasgow, United Kingdom

2:30 p.m.
RESEARCH ELEVATOR PITCH INTERACTIVE SESSION
Julian C. Rayner
Cambridge Institute for Medical Research, University of Cambridge, Cambridge, United Kingdom

Clinical Pre-Meeting Course (ACCTMTH): Fever in the Tropics

Plaza Ball Room- Lobby Level (East Tower)
Wednesday, October 18, 9 a.m. - 5 p.m. U.S. Central Time Zone

The purpose of this course is to educate healthcare professionals about the clinical aspects of fever in the tropics and the etiologies prevalent in Central and Southeast Asia, Sub-Saharan Africa and Central and South America. Participants will learn about the epidemiology of fevers in tropical areas, their diagnosis, management, prevention and control, as well as the public health impact and the measures taken by public health authorities to prevent and control these diseases and their transmission.

COURSE CO-CHAIRS

Sapha Barkati
J.D. MacLean Centre for Tropical Diseases, McGill University, Montreal, QC, Canada

Miguel Cabada
University of Texas Medical Branch and UPCH and UTMB Collaborative Research Center – Cusco Universidad Peruana Cayetano Heredia, Galveston, TX, United States

9 a.m.
INTRODUCTION
Sapha Barkati
J.D. MacLean Centre for Tropical Diseases, McGill University, Montreal, QC, Canada

Miguel Cabada
University of Texas Medical Branch and UPCH and UTMB Collaborative Research Center – Cusco Universidad Peruana Cayetano Heredia, Galveston, TX, United States

9:15 a.m.
EMERGENT CAUSES OF FEVER OUTSIDE THE TROPICS
Francesca Norman
Hospital Ramón Y Cajal, Madrid, Spain

10 a.m.
FEVER IN CENTRAL AND SOUTH AMERICA
Carlos Seas
Universidad Peruana Cayetano Heredia, Instituto de Medicina Tropical Alexander von Humboldt, Lima, Peru

10:45 a.m.
BREAK

11 a.m.
FEVER IN SUB-SAHARAN AFRICA
Emmanuel Bottieau
Institute of Tropical Medicine, Antwerp, Belgium

11:45 a.m.
INTERACTIVE CASE PRESENTATION
Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

11:45 a.m.
INTERACTIVE CASE PRESENTATION
Emmanuel Bottieau
Institute of Tropical Medicine, Antwerp, Belgium

12:30 p.m.
LUNCH

1:30 p.m.
FEVER FROM SOUTH CENTRAL ASIA
Priscilla Rupali
Christian Medical College (CMC), Vellore, India

2:15 p.m.
EPIDEMIOLOGY OF FEVER IN THE TROPICS
Michael Libman
McGill University, Montréal, QC, Canada

3 p.m.
BREAK

3:15 p.m.
FEVER IN SOUTHEAST ASIA
Wasin Matsee
Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

4 p.m.
INTERACTIVE CASE PRESENTATIONS
Wasin Matsee
Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

Young Investigator Award Sessions

The Young Investigator Award is presented to outstanding young researchers during the Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research. Support these young scientists by attending their presentations during this session.

ASTMH thanks Pfizer for support of the Young Investigators.

ASTMH thanks the following Friends of the Young Investigators

Anonymous

William A. Petri, Jr. in memory of William A. Petri, Sr.

All individuals who made a donation during registration and throughout the year.

Young Investigator Award Session A

Grand Hall J - Ballroom Level (East Tower)

Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE

Sasisekhar Bennuru
National Institutes of Health, Bethesda, MD, United States

Katia Bruxvoort
University of Alabama at Birmingham, Birmingham, AL, United States

Juliana Otieno
Uzima University, Kisumu, Kenya

5029

TEMPORAL TRENDS OF BLOOD GLUCOSE IN CHILDREN WITH CEREBRAL MALARIA

Kennedy M. Chastang[1], Rami Imam[2], Meredith G. Sherman[3], Ronke Olowojesiku[4], Amina M. Mukadam[5], Karl B. Seydel[6], Alice M. Liomba[7], John R. Barber[8], Douglas G. Postels[9]
[1]Howard University, Washington, DC, United States, [2]The George Washington University School of Medicine, Washington, DC, United States, [3]Global Health Initiative, Children's National Medical Center, Washington, DC, United States, [4]Department of Pediatrics, Children's National Medical Center, Washington, DC, United States, [5]University of Washington, Seattle, WA, United States, [6]Michigan State University, East Lansing, MI, United States, [7]Blantyre Malaria Project, Blantyre, Malawi, [8]Division of Biostatistics and Study Methodology, Children's National Research Institute, Washington, DC, United States, [9]Division of Neurology, Children's National Medical Center, Washington, DC, United States

5537

FECAL PH AS A MARKER OF CHRONIC MALNUTRITION OR STUNTING AMONG CHILDREN HOSPITALIZED FOR DIARRHEA AND OTHER NON-DIARRHEAL PATHOLOGIES

Md. Shabab Hossain
International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh

5706

EFFECTIVENESS OF THE EUVICHOL® ORAL CHOLERA VACCINE AT 2 YEARS: A CASE-CONTROL AND BIAS-INDICATOR STUDY IN HAITI

Wilfredo R. Matias[1], Yodeline Guillaume[1], Gertrude Cene Augustin[2], Kenia Vissieres[2], Ralph Ternier[2], Damien M. Slater[1], Jason B. Harris[1], Molly F. Franke[3], Louise C. Ivers[1]
[1]Massachusetts General Hospital, Boston, MA, United States, [2]Zanmi Lasante, Port-au-Prince, Haiti, [3]Harvard Medical School, Boston, MA, United States

5763

POTENTIAL SUITABILITY OF SULFADOXINE-PYRIMETHAMINE PLUS AMODIAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION IN AREAS OF HIGH, PRE-EXISTING DRUG RESISTANCE

Gina Maria Cuomo-Dannenburg[1], Andria Mousa[2], Sam Gudoi[3], Kevin Baker[3], Maria Suau Sans[3], Chuks Nnaji[3], John Baptist Bwanika[3], Ivan Alejandro Pulido Tarquino[3], Christian Rassi[3], Monica A. de Cola[1], Craig Bonnington[3], Robert Verity[1], Matthew Cairns[2], Paul Milligan[2], Cally Roper[2], Lucy Okell[1], Patrick G T Walker[1]
[1]Imperial College London, London, United Kingdom, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Malaria Consortium, London, United Kingdom

5839

ASSOCIATIONS BETWEEN MATERNAL AND PATERNAL STRESS, MATERNAL DEPRESSION, MATERNAL EXPOSURE TO INTIMATE PARTNER VIOLENCE, AND CHILD STRESS

Alexis V. Silvera[1], Zachary Butzin-Dozier[1], Sophia T. Tan[1], Andrew N. Mertens[1], Kausar Parvin[2], Md. Mahfuz Al Mamun[2], Dora Il'yasova[3], Md. Ziaur Rahman[2], Helen O. Pitchik[1], Benjamin F. Arnold[4], Idan Shalev[5], Ivan Spasojevic[3], Shahjahan Ali[2], Gabrielle Shuman[1], Mohammed R. Karim[2], Sunny Shahriar[2], Christine P. Stewart[6], Abul K. Shoab[2], Syeda L. Famida[2], Salma Akther[2], Md. Saheen Hossen[2], Palash Mutsuddi[2], Mahbubur Rahman[2], Leanne Unicomb[2], Liying Yan[7], Lia C. H. C. H. Fernald[1], John M. Colford Jr.[1], Stephen P. Luby[8], Douglas A. Granger[9], Ruchira T. Naved[2], Audrie Lin[5]
[1]School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [3]Department of Medicine, Duke University, Durham, NC, United States, [4]Francis I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States, [5]Department of Biobehavioral Health, Pennsylvania State University, University Park, PA, United States, [6]Department of Nutrition, University of California, Davis, Davis, CA, United States, [7]EpigenDx, Inc., Hopkinton, MA, United States, [8]Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States, [9]Institute for Interdisciplinary Salivary Bioscience Research, University of California, Irvine, Irvine, CA, United States

6310

CLINICAL SIGNS AND IMMUNE RESPONSE CHANGES DURING *PLASMODIUM* FRAGILE CO-INFECTION OF ART-TREATED SIV+ RHESUS MACAQUES

Sydney Nemphos[1], Hannah Green[1], Sallie Fell[1], James Prusak[1], Kelly Goff[1], Matilda Moström[1], Coty Tatum[1], Robert Blair[1], Carolina Allers[1], Monica Embers[1], Nicholas Maness[1], Preston Marx[1], Brooke Gasperge[1], Amitinder Kaur[1], Berlin Londono-Renteria[2], Jennifer A. Manuzak[1]
[1]Tulane National Primate Research Center, Covington, LA, United States, [2]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

6425

DEVELOPING NOVEL FLATWORM ION CHANNEL LIGANDS TO TREAT NEGLECTED TROPICAL DISEASES

Daniel J. Sprague[1], Sang-Kyu Park[1], Claudia M. Rohr[1], Simone Häberlein[2], Jonathan S. Marchant[1]
[1]Medical College of Wisconsin, Milwaukee, WI, United States, [2]Institute of Parasitology, Justus Liebig University Giessen, Giessen, Germany

6509

AFTERSHOCK: PERSISTENT INFLAMMATION AND ENDOTHELIAL ACTIVATION IN ADULT SURVIVORS OF DENGUE SHOCK

Angela McBride[1], Phan Vinh Tho[2], Luong Thi Hue Tai[2], Nguyen Thanh Phong[2], Nguyen Thanh Ngoc[3], Duyen Huynh Thi Le[3], Nguyen Lam Vuong[3], Louise Thwaites[3], Martin J Llewelyn[1], Nguyen Van Hao[4], Sophie Yacoub[3]
[1]Brighton and Sussex Medical School, Brighton, United Kingdom, [2]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, [3]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [4]University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam

6545

IMPACT OF AN ANCILLARY CARE POLICY DURING AN EBOLA VACCINE TRIAL IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Gwen Lemey[1], Ynke Larivière[1], Trésor Zola[2], Solange Milolo[2], Engbu Danoff[2], Emmanuel Esanga[2], Junior Matangila[2], Raffaella Ravinetto[3], Jean-Pierre Van geertruyden[1], Vivi Maketa[2], Patrick Mitashi[2], Pierre Van Damme[1], Hypolite Muhindo Mavoko[2]
[1]University of Antwerp, Antwerp, Belgium, [2]University of Kinshasa, Kinshasa, Democratic Republic of the Congo, [3]Institute of Tropical Medicine, Antwerp, Belgium

6766

CONDUCTING AN EBOLA VACCINE TRIAL IN A REMOTE AREA OF THE DEMOCRATIC REPUBLIC OF THE CONGO: CHALLENGES, MITIGATIONS, AND LESSONS LEARNED

Ynke Larivière[1], Trésor M. Zola[2], Gwen Lemey[1], Bernard Osangir[1], Paul P. Vermeiren[1], Solange Milolo[2], Rachel Meta[2], Emmanuel Esanga[2], Junior Matangila[2], Jean-Pierre Van geertruyden[1], Pierre Van Damme[1], Vivi Maketa[2], Patrick Mitashi[2], Hypolite Muhindo-Mavoko[2]

[1]University of Antwerp, Antwerp, Belgium, [2]University of Kinshasa, Kinshasa, Democratic Republic of the Congo

7021

ASSOCIATION BETWEEN ARTERIAL STIFFNESS ANDLOA LOAMICROFILAREMIA:A POPULATION BASED CROSS-SECTIONAL STUDY IN A RURAL AREA OF THE REPUBLIC OF CONGO

Jérémy T. Campillo[1], Valentin Dupasquier[2], Elodie Lebredonchel[3], Ludovic G. Rancé[2], Marlhand C. Hemilembolo[4], Sébastien D. S. Pion[1], Michel Boussinesq[1], Francois Missamou[4], Antonia Perez Martin[5], Cédric B. Chesnais[1]

[1]Institut de Recherche pour le Développement, Montpellier, France, [2]CHU de Montpellier, Montpellier, France, [3]AP-HP, Paris, France, [4]PNLO, Brazzaville, Republic of the Congo, [5]CHU de Nimes, Nimes, France

7116

MICRONUTRIENT STATUS DURING PREGNANCY IS ASSOCIATED WITH YOUNG CHILD TELOMERE LENGTH

Farheen Jamshed[1], Shahjahan Ali[2], Sophia T. Tan[3], Andrew N. Mertens[4], Jue Lin[5], Zachary Butzin-Dozier[4], Md. Ziaur Rahman[2], Rubhana Raqib[2], Douglas A. Granger[6], Anjan K. Roy[2], Abul K. Shoab[2], Firdaus S. Dhabhar[7], Syeda L. Famida[2], Md. Saheen Hossen[2], Palash Mutsuddi[2], Salma Akther[2], Mahbubur Rahman[2], Juergen Erhardt[8], Idan Shalev[9], John M. Colford Jr.[4], Stephen P. Luby[10], Lia C. H. Fernald[11], Christine P. Stewart[12], Audrie Lin[9]

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7188

ANTIBIOTIC STEWARDSHIP USING THE EPOCT+ DIGITAL CLINICAL DECISION SUPPORT ALGORITHM IN PRIMARY CARE FACILITIES IN TANZANIA: A CLUSTER RANDOMIZED CONTROLLED TRIAL

Rainer Tan[1], Lameck B. Luwanda[2], Godfrey Kavishe[3], Alexanda V. Kulinkina[4], Chacha Mangu[3], Sabine Renggli[2], Geofrey Ashery[2], Margreth Joram[2], Ibrahim E. Mtebene[2], Peter Agrea[3], Alan Vonlanthen[1], Vincent Fairve[1], Julien Thabard[1], Humphrey Mhagama[3], Gillian Levine[4], Marie-Annick Le Pogam[1], Kristina Keitel[5], Patrick Taffé[1], Nyanda Ntinginya[3], Honorati Masanja[2], Valérie D'Acremont[1]

[1]Unisanté, Lausanne, Switzerland, [2]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [3]National Institute of Medical Research - Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, [4]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [5]University Hospital Bern, Bern, Switzerland

7195

REDUCING LOW BIRTH WEIGHT BY ADDING TWO DOSES OF AZITHROMYCIN TO THE INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY WITH SULFADOXINE PYRIMETHAMIN: A RANDOMIZED CONTROLLED TRIAL IN BURKINA FASO

Moussa Lingani[1], Serge Henri Zango[1], Innocent Valéa[1], Sékou Samadoulougou[2], Michèle Dramaix[3], Halidou Tinto[1], Philippe Donnen[3], Annie Robert[4]

[1]Institut de Recherche en Sciences de la Santé/Direction Régionale du Centre Ouest (IRSS/DRCO), Nanoro, Burkina Faso, [2]Evaluation Platform on Obesity Prevention, Quebec Heart and Lung Institute Research Center, Quebec City, QC G1V 4G5, Quebec, QC, Canada, [3]École de santé publique, Université Libre de Bruxelles. CP594, route de Lennik 808, 1070 Bruxelles, Bruxelles, Belgium, [4]Epidemiology and Biostatistics Research Division, Institut de recherche expérimentale et clinique, Université catholique de Louvain, Brussels B1.30.13, Clos Chapelle-aux-Champs 30, B-1200 Brussels, Bruxelles, Belgium

Young Investigator Award Session B

Roosevelt 3B - Concourse Level (East Tower)

Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE

Andrea Conroy
Indiana University, Indianapolis, IN, United States

Alex Eapen
National Institute of Malaria Research, Chennai, India

Hugues C. Nana Djeunga
Centre for Research on Filariasis and other Tropical Diseases (CRFilMT), Yaounde, Cameroon

Ashley Vaughan
Seattle Children's Research Institute, Seattle, WA, United States

5313

EVALUATING THE CONTRIBUTION OF NS1 ANTIGENEMIA TO DENGUE-ELICITED NEUTROPENIA

Chad Gebo, Mitchell Waldran, Lauren Bahr, Adam Wegman, Nathan Roy, Adam Waickman

SUNY Upstate Medical University, Syracuse, NY, United States

5348

SIMPLE, INEXPENSIVE *IN VITRO* DRUG SURVIVAL ASSAY FOR MONITORING ANTIMALARIAL DRUG SENSITIVITY IN MALARIA ENDEMIC REGIONS

Chinedu Ogbonnia Egwu, Fatoumata Bojang, Ndey Fatou Drammeh, Aminata Seedy Jawara, Fatou K. Jaiteh, Eniyou Oriero, Alfred Amambua-Ngwa

Medical Research Council unit at London School School of Hygienen and Tropical Medicine, Banjul, Gambia

5388

EXPLORING DIMETHYL FUMARATE AS AN ADJUNCTIVE THERAPY FOR CEREBRAL MALARIA IN EXPERIMENTAL CEREBRAL MALARIA MODEL

Cheryl Sachdeva[1], Tarun Keswani[1], Akua Mensah[2], Min-Hui Cui[1], Craig Branch[1], Johanna P. Daily[1]

[1]Albert Einstein College of Medicine, Bronx, NY, United States, [2]CUNY Lehman College, Bronx, NY, United States

5512

COMPARISON OF ESTIMATES OF MALARIA TRANSMISSION INTENSITY DERIVED FROM THE FACILITY-BASED TEST POSITIVITY RATE VERSUS HOUSEHOLD, MALARIA-INDICATOR STYLE SURVEYS

Brandon D. Hollingsworth[1], Emmanuel Baguma[2], Moses Ntaro[2], Edgar Mulogo[2], Ross M. Boyce[3]
[1]Cornell University, Ithaca, NY, United States, [2]Mbarara University of Science & Technology, Mbarara, Uganda, [3]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

5658

SCHISTOSOMAL CIRCULATING ANODIC ANTIGEN CLEARANCE IN PRESCHOOL AGED CHILDREN FROM THE PIP (PRAZIQUANTEL IN PRESCHOOLERS) TRIAL

Gloria Kakoba Ayebazibwe[1], Andrew Edielu[1], Susannah Colt[2], Emily L. Webb[3], Patrice A. Mawa[1], Hannah W. Wu[3], Govert J.van Dam[4], Paul Corstjens[4], Racheal Nakyesige[1], Jennifer F. Friedman[2], Amaya L. Bustinduy[3]
[1]Medical Research Council/Uganda Virus Research Institute and London School of Hygiene & Tropical Medicine Uganda Research Unit, Entebbe, Uganda, [2]Lifespan Center for International Health Research, Providence, Rhode Island, RI, United States, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Leiden University Medical Centre, Leiden, Netherlands

6026

MOSQUITO ID: NANOPORE SEQUENCING OUT OF A SUITCASE LAB AS AN EARLY WARNING SYSTEM FOR EMERGING INFECTIOUS DISEASES

Arianna Ceruti[1], Antonios Michaelakis[2], Marina Bisia[2], Uwe Truyen[1], Georgios Balatsos[2], John Palmer[3], Mohammad Shafiul Alam[4], Ahmed Abd El Wahed[1]
[1]Leipzig University, Leipzig, Germany, [2]Benaki Phytopathological Institute, Athens, Greece, [3]Universitat Pompeu Fabra, Barcelona, Spain, [4]icddr,b, Dhaka, Bangladesh

6172

DEFINING THE *PLASMODIUM* PIPECOLIC ACID PATHWAY AND ROLE IN CEREBRAL MALARIA

Akua Mensah[1], Cheryl Sachdeva[2], Tarun Keswani[2], Edward Nieves[2], Photini Sinnis[3], Terrie Taylor[4], Karl Seydel[4], Kyu Rhee[5], Anas Saleh[5], Johanna P Daily[2]
[1]CUNY Lehman College, Bronx, NY, United States, [2]Albert Einstein College of Medicine, Bronx, NY, United States, [3]Johns Hopkins University, Baltimore, MD, United States, [4]Michigan State University, East Lansing, MI, United States, [5]Weill Cornell Medical College, New York, NY, United States

6275

LATE POST-TREATMENT INFLAMMATORY RESPONSE AND RESIDUAL CALCIFICATION IN NEUROCYSTICERCOSIS

Laura E. Baquedano Santana[1], Noemi Miranda[1], Gianfranco Arroyo[1], Hector H. Garcia[2], Javier A. Bustos[2]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Instituto Nacional de Ciencias Neurologicas, Lima, Peru

6438

MULTIPLEXED ANTIGEN SPECIFIC ANTIBODY FC PROFILING FOR POINT OF CARE DIAGNOSIS OF TUBERCULOSIS

Sarah Ali, Preetham Peddireddy, Abhipsa Panigrahi, Asma Hashim, Aniruddh Sarkar
Georgia Institute of Technology, Atlanta, GA, United States

6458

ASSESSING PROGRESS TOWARDS THE WORLD HEALTH ORGANIZATION TARGET OF ZERO CATASTROPHIC COSTS DUE TO TUBERCULOSIS BY 2035

Paula P. Jimenez[1], Sumona Datta[2], Luz Quevedo Cruz[1], Matthew J. Saunders[1], Carlton A. Evans[1]
[1]Innovation For Health and Development, London, United Kingdom, [2]Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

6790

INVESTIGATING THE ACCURACY OF MALARIA DIAGNOSTIC TESTS: A BAYESIAN META-ANALYSIS COMPARING CONVENTIONAL AND ULTRASENSITIVE RAPID DIAGNOSTIC TOOLS

Muhammed Elfaituri, Taha Khaled
University of Tripoli, Tripoli, Libyan Arab Jamahiriya

6876

MOLECULAR EPIDEMIOLOGY OF NON-FALCIPARUM *PLASMODIUM* INFESTATIONS IN DIFFERENT AREAS OF THE IVORY COAST

Assohoun Jean Sebastien Miezan[1], Akpa Paterne Gnagne[2], Akoua Valérie Bedia-Tanoh[1], Estelle Kone[1], Abibatou Konate-Toure[1], Kpongbo Etienne Angora[1], Abo Henriette Bosson-Vanga AH[1], Kondo Fulgence Kassi[1], Pulchérie Christiane Michelle Kiki-Barro[1], Vincent Djohan[1], Eby Hervé Menan[1], William Yavo[3]
[1]UNIVERSITE FELIX HOUPHOUET BOIGNY, Abidjan, Côte D'Ivoire, [2]National Institute of Public Health, Abidjan, Côte D'Ivoire, [3]Universite Felix Houphoet Boigny, Abidjan, Côte D'Ivoire

6978

DETECTING AND TREATING SEPTIC SHOCK IN DIARRHEAL PATIENT WITH POINT OF CARE (POC) LACTATE TESTING: A LIFE-SAVING STRATEGY BEYOND ICU

Lubaba Shahrin, Monira Sarmin, Irin Parvin, Mohammod Jobayer Chisti
International Centre for Diarrheal Disease Research, Bangladesh, Dhaka, Bangladesh

7018

TOWARDS IMPROVED ONCHOCERCIASIS DIAGNOSTICS: CHARACTERIZATION OF A MAJOR ANTIGEN OF ONCHOCERCA VOLVULUS IDENTIFIED FROM THE PLASMA OF INFECTED INDIVIDUALS

Adebiyi A. Adeniran, Kurt C. Kurtis, Lucia Sanchez Di Maggio, Kerstin Fischer, Gary Weil, Peter U. Fischer
Washington University School of Medicine, St Louis, MO, United States

Young Investigator Award Session C

Regency Ballroom A - Ballroom Level (West Tower)
Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE

Fernando Bruno
National Institutes of Health, Bethesda, MD, United States

Rebecca Fischer
Texas A&M University, College Station, TX, United States

Alexander Kwarteng
Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana

5273

SUPERSPREADING OF SARS-COV-2: A SYSTEMATIC REVIEW AND META-ANALYSIS

Clifton D. McKee[1], Emma X. Yu[1], Andrés Garcia[1], Jules Jackson[1], Aybüke Koyuncu[1], Sophie Rose[1], Andrew S. Azman[1], Katie Lobner[2], Emma Sacks[1], Maria Van Kerkhove[3], Emily S. Gurley[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Welch Medical Library, Johns Hopkins School of Medicine, Baltimore, MD, United States, [3]World Health Organization, Geneva, Switzerland

5408

KNOWLEDGE AND PERCEPTIONS OF NATIONAL GUIDELINES FOR THE CASE MANAGEMENT OF MALARIA IN PREGNANCY AMONG HEALTHCARE PROVIDERS AND DRUG DISPENSERS IN THE CONTEXT OF MULTIPLE FIRST-LINE THERAPIES IN WESTERN KENYA: A MIXED METHODS STUDY

Caroline B. Osoro[1], Stephanie Dellicour[2], Eleanor Ochodo[1], Taryn Young[1], Feiko O. ter Kuile[2], Julie R. Gutman[3], Jenny Hill[2]

[1]Stellenbosch University, Cape Town, South Africa, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]United States Centers for Disease Control and Prevention, Atlanta, GA, United States

5426

A PRELIMINARY ANALYSIS OF HEALTH BEHAVIORS AND ACCESS TO CARE FOR SEVERE MALARIA DISEASE AT SUSSUNDENGA-SEDE HEALTH CENTER

Dominique E. Earland[1], Albino F. Bibe[2], Vali Muhiro[3], Diocleciano Nelio[3], João Ferrão[4], Kelly Searle[1]

[1]University of Minnesota School of Public Health, Minneapolis, MN, United States, [2]Escola Secundária de Sussundenga, Manica, Mozambique, [3]Sussundenga-Sede Rural Health Center, Manica, Mozambique, [4]Consultores Associados de Manica, Manica, Mozambique

5572

RETROSPECTIVE EPIDEMIOLOGICAL STUDY ON THE EFFECTIVENESS OF VISCERAL LEISHMANIASIS TREATMENT PROTOCOLS AND RISK FACTORS FOR RELAPSE IN TIATY EAST AND TIATY WEST SUB-COUNTIES, KENYA

Grace C. Kennedy[1], Katherine O'Brien[1], Hellen Nyakundi[2], Mwatela Kitondo[2], Wilson Biwott[3], Richard G. Wamai[4]

[1]Department of Health Sciences, Bouve College of Health Sciences, Northeastern University, Boston, MA, United States, [2]African Center for Community Investment in Health, Chemolingot, Kenya, [3]Chemolingot Sub-county Hospital, Chemolingot, Kenya, [4]Department of Cultures, Societies, and Global Studies, College of Social Sciences and Humanities, Northeastern University, Boston, MA, United States

5661

POPULATION LEVEL IMPACT OF NOVEL DRUGS TARGETING JUVENILE SCHISTOSOMES ON CONTROL AND ELIMINATION OF SCHISTOSOMIASIS

Benjamin J. Singer[1], Minoli Daigavane[1], Sophia Tan[1], Mireille Gomes[2], Thomas Spangenberg[2], Jason R. Andrews[3], Isaac I. Bogoch[4], Nathan C. Lo[1]

[1]University of California, San Francisco, San Francisco, CA, United States, [2]Global Health Institute of Merck, Ares Trading S.A., a subsidiary of Merck KGaA, Eysins, Switzerland, [3]Stanford University, Stanford, CA, United States, [4]University of Toronto, Toronto, ON, Canada

5750

HEALTHY CHILDREN, HEALTHY CHIMPS: A RESEARCH-PRACTICE PARTNERSHIP FOR REDUCING RESPIRATORY DISEASE TRANSMISSION FROM HUMANS TO CHIMPANZEES IN UGANDA

Taylor Weary[1], Tressa Pappas[2], Patrick Tusiime[3], Shamilah Tuhaise[3], Elizabeth Ross[3], James Gern[2], Tony Goldberg[1]

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6080

THRESHOLD LIMITS OF DETECTION AND QUANTIFICATION OF MALARIA PARASITES IN DRIED BLOOD SPOT: A COMBINED APPROACH OF MID-INFRARED SPECTROSCOPY AND MACHINE LEARNING

Issa H. Mshani[1], Fredros Okumu[1], Frank Musa[1], Rehema Mwanga[2], Doreen Josen[1], Emmanuel P. Mwanga[1], Prisca Kweyamba[2], Simon A. Babayan[3], Francesco Baldini[3]

[1]Ifakara Health Institute, Morogoro, United Republic of Tanzania, [2]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [3]University of Glasgow, Glasgow, United Kingdom

6384

ASSOCIATION OF FEMALE UROGENITAL SCHISTOSOMIASIS WITH HIGH-RISK HUMAN PAPILLOMAVIRUS AMONG WOMEN IN ZAMBIA: BASELINE RESULTS OF A LONGITUDINAL COHORT STUDY (THE ZIPIME WEKA SCHISTA STUDY)

Olimpia Lamberti[1], Helen Kelly[1], Rhoda Ndubani[2], Nkatya Kasese[2], Emily Webb[3], Beatrice Nyondo[2], Barry Kosloff[2], Jennifer Fitzpatrick[2], Bonnie Webster[4], Maina Cheeba[2], Helen Ayles[2], Kwame Shanaube[2], Amaya Bustinduy[1]

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6407

INVESTIGATING THE POTENTIAL OF DENGUE AND ZIKA VIRUS TO ESTABLISH A SYLVATIC TRANSMISSION CYCLE IN THE NEOTROPICS THROUGH A MODELING LENS

Hélène Cecilia[1], Benjamin M. Althouse[2], Sasha R. Azar[3], Shannan L. Rossi[3], Nikos Vasilakis[3], Kathryn A. Hanley[1]

[1]New Mexico State University, Las Cruces, NM, United States, [2]University of Washington, Seattle, WA, United States, [3]University of Texas Medical Branch, Galveston, TX, United States

6715

PERSISTENT, CONSISTENT, AND NEGLECTED: INVESTIGATING THE GEOGRAPHIC CLUSTERING AND PREDICTORS OF LA CROSSE VIRUS DISEASE IN APPALACHIA

Corey A. Day[1], Rebecca Trout Fryxell[1], Agricola Odoi[1], Brian D. Byrd[2], Abelardo Moncayo[3], Michael Doyle[4], Carl Williams[4]

[1]University of Tennessee, Knoxville, Knoxville, TN, United States, [2]Western Carolina University, Cullowhee, NC, United States, [3]Tennessee Department of Health, Nashville, TN, United States, [4]North Carolina Department of Health and Human Services, Raleigh, NC, United States

6822

EVALUATING THE EFFECT HETEROGENEITY OF MALARIA CAMP INTERVENTIONS IN HARD-TO-REACH AREAS OF ODISHA STATE, INDIA

Sooyoung Kim[1], Praveen K. Sahu[2], Timir K. Padhan[2], Stuti Mohanty[2], Mohammed A. Haque[2], Sanjib Mohanty[2], Anne Kessler[3], Danielle C. Ompad[1], Jane M. Carlton[3], Yesim Tozan[1]

[1]New York University School of Global Public Health, New York, NY, United States, [2]Department of Molecular & Infectious Diseases, Community Welfare Society Hospital, Rourkela, India, [3]Center for Genomics and Systems Biology, Department of Biology, New York University, New York, NY, United States

7047

PORTABLE SMARTPHONE-BASED MOLECULAR TEST TO SUPPORT THE ELIMINATION PROGRAM OF LEISHMANIA DONOVANI

Rea Maja Kobialka[1], Arianna Ceruti[1], Madhurima Roy[2], Sutopa Roy[2],

7059

EPIDEMIOLOGY OF SPOTTED FEVER GROUP RICKETTSIA AND CHAGAS DISEASE INFECTION IN A RURAL COMMUNITY IN BOYACÁ, COLOMBIA

Lídia Gual-Gonzalez[1], Omar Cantillo-Barraza[2], Manuel Medina[3], Sara Patiño[2], Stella CW Self[1], Melissa S. Nolan[1]

[1]University of South Carolina, Columbia, SC, United States, [2]Universidad de Antioquia, Medellín, Colombia, [3]Secretaria de Salud Departamento de Boyacá, Tunja, Colombia

7165

USE OF INVERSE DISTANCE WEIGHTING INTERPOLATION MODELLING AND GIS-BASED SPATIAL MAPPING TO ESTIMATE THE RISKS OF HOOKWORM AND INTESTINAL SCHISTOSOMIASIS INFECTIONS IN GHANA

Jeffrey G. Sumboh[1], Yvonne Ashong[1], Sedzro K. Mensah[1], Jewelna Akorli[1], Irene O. Donkor[1], Elias A. Bempong[2], Rahmat Yusif[1], Bright Idun[2], Freda Kwarteng[2], Frank T. Aboagye[2], Lisa Harrison[3], Debbie Humphries[4], Mike O. Atweneboana[2], Michael Cappello[3], Michael D. Wilson[1]
[1]Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [2]Council for Scientific and Industrial Research, Accra, Ghana, [3]Yale School of Medicine, New Haven, CT, United States, [4]Yale School of Public Health, New Haven, CT, United States

Young Investigator Award Session D

Regency Ballroom B - Ballroom Level (West Tower)
Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE

Charles Adetunji
Edo State University, Iyambo, Nigeria

Dionicia Gamboa
Universidad Peruana Cayetano Heredia, Lima, Peru

Prasanna Jagannathan
Stanford University, Stanford, CA, United States

Anita Suresh
FIND, Singapore, Singapore

5011

WHO IS MISSED IN A COMMUNITY-BASED SURVEY: DIFFERENCES IN SOCIO-DEMOGRAPHIC CHARACTERISTICS AND HEALTHCARE SEEKING AMONG MISSED AND SAMPLED INDIVIDUALS FOR A SEROSURVEY IN ZAMBIA AND IMPLICATIONS FOR BIASED ESTIMATES OF HEALTHCARE SEEKING, VACCINATION COVERAGE, AND SEROPREVALENCE

Natalya Kostandova[1], Simon Mutembo[1], Christine Prosperi[1], Francis D. Mwansa[2], Chola N. Daka[3], Harriet Namukoko[3], Bertha Nachinga[3], Gershom Chongwe[4], Innocent Chilumba[4], Kalumbu H. Matakala[5], Gloria Musukwa[5], Mutinta Hamahuwa[5], Webster Mufwambi[4], Japhet Matoba[5], Kenny Situtu[4], Irene Mutale[4], Edgar Simulundu[5], Phillimon Ndubani[5], Alvira Z. Hasan[1], Shaun A. Truelove[1], Amy K. Winter[6], Andrea C. Carcelen[1], Amy Wesolowski[1], Bryan Lau[1], William J. Moss[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Directorate of Public Health and Research, Ministry of Health, Lusaka, Zambia, [3]Zambia Statistics Agency, Lusaka, Zambia, [4]Tropical Diseases Research Centre, Ndola, Zambia, [5]Macha Research Trust, Macha, Zambia, [6]University of Georgia, Athens, GA, United States

5178

THE GENOMICS BEHIND INSECTICIDE RESISTANCE IN *ANOPHELES* MOSQUITOES FROM THE BIJAGÓS ARCHIPELAGO

Sophie Moss[1], Elizabeth Pretorius[1], Sainey Ceesay[2], Robert Jones[1], Jody Phelan[1], Emma Collins[1], Taane G. Clark[1], Anna Last[1], Susana Campino[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Medical Research Council, The Gambia (MRCG), Serrekunda, Gambia

5209

WOLBACHIA-INFECTED *AEDES AEGYPTI* TO CONTROL DENGUE IN DHAKA, BANGLADESH

Hasan Mohammad Al-Amin[1], Leon E. Hugo[1], Gordana Rašić[1], Nigel W. Beebe[2], Gregor J. Devine[3]
[1]QIMR Berghofer Medical Research Institute, Brisbane, Australia, [2]University of Queensland, Brisbane, Australia, [3]QIMR Berghofer, Brisbane, Australia

5351

PLASMODIUM FALCIPARUM KELCH13 R561H SPREAD AND EMERGENCE OF OTHER ARTEMISININ PARTIAL RESISTANT MUTATIONS ACROSS RWANDA USING A SITE AND TEMPORAL RAPID POOLING STRATEGY

Neeva Wernsman Young[1], Gashema Pierre[2], David Giesbrecht[1], Tharcisse Munyaneza[3], Alec Leonetti[1], Rebecca Crudale[1], Vincent Iradukunda[2], Ntwari Jean Bosco[2], Corine Karema[4], Jean-Baptiste Mazarati[2], Jonathan J. Juliano[5], Jeffrey A. Bailey[1]
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5593

BENCHMARKING AN ACCESSIBLE METHOD FOR GENERATING COMPLETE GENOMES FROM PARASITIC NEMATODES

Kaylee S. Herzog, Joseph R. Fauver
University of Nebraska Medical Center, Omaha, NE, United States

6065

COMPARISON OF STRENGTH OF SELECTION FOR *P. FALCIPARUM* ARTEMISININ RESISTANCE-ASSOCIATED MUTATIONS BETWEEN SOUTHEAST ASIA AND UGANDA

Cecile P. G. Meier-Scherling[1], Oliver J. Watson[2], Victor Asua[3], Isaac Ghinai[4], Thomas Katairo[3], Shreeya Garg[5], Dominic Kwiatkowski[4], Melissa Conrad[5], Philip J. Rosenthal[5], Lucy C. Okell[2], Jeffrey A. Bailey[6]
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6432

DISCORDANT CIRCULATING AND MUCOSAL ANTIBODY RESPONSES ELICITED BY SARS-COV-2 INFECTION AND VACCINATION IN A LONGITUDINAL COHORT FROM BRAZIL

Mariam O. Fofana[1], Julio Silva[2], Nivison Nery Jr[3], Juan Pablo Aguilar Ticona[3], Valter Silva Monteiro[2], Emilia Andrade Belitardo[3], M. Catherine Muenker[1], Jaqueline Cruz[3], Renato Victoriano[3], Daiana Santos de Oliveira[3], Laiara Lopes dos Santos[3], Juliet Oliveira Santana[3], Ananias Sena do Aragão Filho[3], Adam Waickman[4], Ricardo Khouri[3], Matt D.T. Hitchings[5], Mitermayer G. Reis[3], Federico Costa[6], Carolina Lucas[2], Akiko Iwasaki[2], Derek Cummings[5], Albert I. Ko[1]
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6615

CLIP RNAI SCREEN: UNVEILING THE PROTEASE NETWORK THAT REGULATES HUMORAL IMMUNITY IN *ANOPHELES GAMBIAE*

Bianca Morejon, Kristin Michel
Kansas State University, Manhattan, KS, United States

6764

CHARACTERIZING A NOVEL DENGUE VACCINE BY LEVERAGING CLINICAL TRIAL DATA WITH A MULTI-LEVEL MODEL

Manar Alkuzweny, Guido España, T. Alex Perkins
University of Notre Dame, Notre Dame, IN, United States

6899

HOST-DERIVED LIPIDS SHAPE *PLASMODIUM FALCIPARUM* DEVELOPMENT AND PATHOGENICITY: AN INTEGRATIVE MULTI-OMICS ANALYSIS IN MALARIA-INFECTED CHILDREN

Wael Abdrabou[1], Maria Nikulkova[2], Massar Dieng[1], Saruul Zorigt[1], Manar AlShaikh[1], Aïssatou Diawara[3], Samuel Sermé[4], Salif Sombié[4], Noelie Henry[4], Desire Kargougou[4], Issiaka Soulama[4], Youssef Idaghdour[1]
[1]New York University, Abu Dhabi, United Arab Emirates, [2]New York University, New York, NY, United States, [3]Glide, Abu Dhabi, United Arab Emirates, [4]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

7216

AGE AND PARASITEMIA EXPLAIN MOST OF THE VARIATION IN HOST AND PARASITE GENE EXPRESSION AMONG MALIAN CHILDREN INFECTED WITH *P. FALCIPARUM*

Kieran Tebben[1], Salif Yirampo[2], Drissa Coulibaly[2], Abdoulaye K. Koné[2], Matthew B. Laurens[1], Emily M. Stucke[1], Ahmadou Dembélé[3], Youssouf Tolo[2], Karim Traoré[2], Amadou Niangaly[2], Andrea A. Berry[1], Bourema Kouriba[2], Christopher V. Plowe[1], Ogobara K. Doumbo[2], Kirsten E. Lyke[1], Shannon Takala-Harrison[1], Mahamadou A. Thera[2], Mark A. Travassos[1], David Serre[1]
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Young Investigator Award Session E

Regency Ballroom C - Ballroom Level (West Tower)
Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE

David Diemert
George Washington University, Washington, DC, United States

Pedro Gazzinelli-Guimaraes
National Institutes of Health, Bethesda, MD, United States

Sara Healy
NIH/NIAID, Bethesda, MD, United States

Kirsten E. Lyke
Center for Vaccine Development, University of Maryland, Baltimore, MD, United States

5260

HIGH TRANSMISSION OF ENDEMIC HUMAN CORONAVIRUSES DURING THE COVID-19 PANDEMIC IN ADOLESCENTS IN CEBU, PHILIPPINES

Ogeneitsega Janet Joseph[1], Michelle Ylade[2], Jedas Veronica Daag[2], Rosemary Aogo[1], Maria Vinna Crisostomo[2], Kristal-An Agrupis[2], Patrick Mpingabo[1], Lakshamane Premkumar[3], Jacqueline Deen[2], Leah Katzelnick[1]
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5297

PERSISTENCE OF SERUM IGM ANTIBODIES ANTI-CHIKUNGUNYA VIRUS FOR MORE THAN 24 MONTHS AFTER THE ONSET OF ACUTE SYMPTOMS

Leile Camila Jacob-Nascimento[1], Moyra Machado Portilho[1], Rosangela Oliveira Anjos[1], Patricia Sousa dos Santos Moreira[1], Viviane Machicado[2], Adriane Souza Paz[2], Lorena Gomes[1], Uriel Kitron[3], Scott Weaver[4], Mitermayer Galvão Reis[5], Guilherme Sousa Ribeiro[6]
[1]Oswaldo Cruz Foundation, Salvador, Brazil, [2]Bahiana School of Medicine and Public Health, Salvador, Brazil, [3]Emory University, Atlanta, GA, United States, [4]World Reference Center for Emerging Viruses and Arboviruses, University of Texas Medical Branch, Galveston, TX, United States, [5]Oswaldo Cruz Foundation / Federal University of Bahia / Yale University, Salvador / New Havem, Brazil, [6]Oswaldo Cruz Foundation / Federal University of Bahia, Salvador, Brazil

5301

ASSESSING THE ROLE OF NON-NEUTRALIZING ANTIBODIES IN ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY OF DENGUE VIRUS INFECTED CELLS

Mitchell J. Waldran[1], Adam T. Waickman[1], Jeffrey Currier[2]
[1]SUNY Upstate Medical University, Syracuse, NY, United States, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States

5305

DETECTION OF ENVELOPE-DIMER EPITOPE-LIKE BROADLY PROTECTIVE ANTIBODIES IN DENGUE-IMMUNE CHILDREN IN THE PHILIPPINES FOLLOWING VACCINATION AND NATURAL INFECTION

Patrick I. Mpingabo[1], Michelle Ylade[2], Maria Vinna Crisostomo[2], Devina Thiono[3], Jedas Veronica Daag[2], Kristal-An Agrupis[2], Ana Coello Escoto[1], Guillermo Raimundi Rodriguez[1], Kelsey E. Lowman[1], Saba Fideous[1], Rosemary A. Aogo[1], Camila Odio[1], Laura White[3], Aravinda de Silva[3], Jacqueline Deen[2], Leah C. Katzelnick[1]
[1]Viral Epidemiology and Immunity Unit, Laboratory of Infectious Diseases, NIAID, NIH, Bethesda, MD, United States, [2]University of Philippine-Manila, Manila, Philippines, [3]Department of Microbiology and Immunology, University of North Carolina Chapel-Hill, Chapel-Hill, NC, United States

5312

MALARIA ABOLISHES ONNV-INDUCED ARTHRITIS BY ALTERING THE KINETICS OF VIRUS-SPECIFIC CD4 T CELL DEVELOPMENT IN THE FOOTPAD-DRAINING LYMPH NODES

Anthony Torres-Ruesta, Teck-Hui Teo, Yi-Hao Chan, Siti Naqiah Amrun, Siew-Wai Fong, Fok-Moon Lum, Laurent Renia, Lisa Ng
*A*STAR Infectious Diseases Labs, Singapore, Singapore*

5472

COMPARISON OF *P. FALCIPARUM* GROWTH *IN VITRO* AND *IN VIVO* IN HUMANISED MICE

Katty Wadda[1], James Keeble[1], Giselle McKenzie[1], Christine Zverev[1], Rose Leahy[1], Vicky Rannow[1], Jessica Gruninger[1], Charles Olomu[1], Shaun Baker[1], Paul Bowyer[1], Sandrine Vessillier[1], Alison Kemp[2], Julian Rayner[2], Sandra Diebold[1], Adela Nacer[1]
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5697

BORRELIA BURGDORFERI CO-EXPOSURE ENHANCES *IN VITRO* HOST CELL SUSCEPTIBILITY TO L. INFANTUMAND INDUCES TH17-LIKE CELL RESPONSES IN L. INFANTUM-SEROPOSITIVE DOGS

Danielle Pessoa-Pereira[1], Breanna M. Scorza[1], Karen Cyndari[2], Erin A. Beasley[1], Christine A. Petersen[1]
[1]University of Iowa, Iowa City, IA, United States, [2]University of Iowa Hospitals and Clinics, Iowa City, IA, United States

5698

STAT6-DEPENDENT/IL-5-MEDIATED EOSINOPHILIA PRIMED BY PRE-EXPOSURE TO UNINFECTED SANDFLY VECTOR BITES ENHANCE SUBSEQUENT LEISHMANIA INFECTION

Chukwunonso O. Nzelu[1], Matheus B. H. Carneiro[1], Claudio Meneses[2], Gabriella Gee[1], Leon Melo[1], Nathan C. Peters[1]
[1]Snyder Institute for Chronic Diseases, Department of Microbiology, Immunology, and Infectious Diseases, Cumming School of Medicine and Faculty of Veterinary Medicine, University of Calgary, Canada, Calgary, AB, Canada, [2]Vector Molecular Biology Section, Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, USA, Rockville, MD, United States

5700

INHIBITION OF SRC SIGNALING INDUCES AUTOPHAGIC KILLING OF TOXOPLASMA GONDII INDEPENDENT OF EGF RECEPTOR

Alyssa Hubal[1], Jose-Andres Portillo[1], Anusha Vendhoti[1], Sarah Vos[1], Charles Shaffer[2], Carlos Subauste[1]
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5701

LOSS OF SIGLEC-7 CORRELATES WITH ENHANCED NATURAL KILLER CELL FUNCTION AND PROTECTION FROM MALARIA SYMPTOMS

Jenna Dick[1], Jules Sangala[1], Benjamin Zandstra[1], Peter Crompton[2], Geoffrey Hart[1]
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5841

A NOVEL VIRULENCE MODIFYING EXOTOXIN SECRETED BY PATHOGENICLEPTOSPIRAMEDIATESDISEASE PATHOGENESIS AND IS A PAN LEPTOSPIROSIS VACCINE CANDIDATE

Reetika Chaurasia, Dielson S. Vieira, Joseph M. Vinetz
Yale University, New Haven, CT, United States

6033

INVESTIGATING THE IMMUNE PROFILES ELICITED BY CLINICALLY APPARENT AND CLINICALLY INAPPARENT DENGUE VIRUS INFECTIONS

Lauren Bahr[1], Darunee Buddhari[2], Surachai Kaewhiran[3], Direk Khampaen[3], Sopon Iamsirithaworn[3], Stefan Fernandez[2], Aaron Farmer[2], Alan Rothman[4], Stephen Thomas[1], Timothy Endy[1], Adam Waickman[1], Kathryn Anderson[1]
[1]State University of New York Upstate Medical University, Syracuse, NY, United States, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [3]Ministry of Public Health, Tiwanond, Nonthaburi, Thailand, [4]University of Rhode Island, Providence, RI, United States

6367

PERFORMANCE OF SARS COV-2 IGG ANTI-N AS AN INDEPENDENT MARKER OF EXPOSURE TO SARS COV-2 IN AN UNVACCINATED WEST-AFRICAN POPULATION

Adam Abdullahi[1], Michael Owusu[2], Mark Cheng[1], Colette Smith[3], Sani Aliyu[4], Alash'le Abimiku[5], Richard Phillips[2], Ravindra K. Gupta[1]
[1]University of Cambridge, Cambridge, United Kingdom, [2]Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, Kumasi, Ghana, [3]University College London, UK, London, United Kingdom, [4]Addenbrooke's Hospital, Cambridge University Hospitals NHS Foundation Trust, Cambridge, UK, Cambridge, United Kingdom, [5]Institute of Human Virology, Abuja, Nigeria, Abuja, Nigeria

6496

A HUMAN PLURIPOTENT STEM CELL DERIVED MODEL OF THE BLOOD-BRAIN BARRIER IN CEREBRAL MALARIA

Adnan Gopinadhan[1], Jason M. Hughes[2], Andrea L. Conroy[1], Chandy C. John[1], Scott G. Canfield[3], Dibyadyuti Datta[1]
[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]Indiana University School of Medicine, Terre Haute, IN, United States, [3]Indiana University School of Medicine, Terre Hatue, IN, United States

7137

SEROLOGIC RESPONSE USING ELISA ANTI-VI IGG ANTIBODIES AT SEVERAL TIME POINTS FOLLOWING IMMUNIZATION WITH TYPBAR-TCV AMONG HIV INFECTED CHILDREN IN KARACHI PAKISTAN

Zoya Haq[1], Farah Qamar[2], Sonia Qureshi[2], Fatima Mir[2], Mohammad Tahir Yousafzai[2], Rabab Batool[2]
[1]Liaquat National Medical College, Karachi, Pakistan, [2]Aga Khan University Hospital, Karachi, Pakistan

7252

SEX HORMONES, CD8+T CELLS, AND THE LIVER: HOW THE ENDOCRINE-IMMUNE INTERFACE ALTERS MALARIA LIVER-STAGE VACCINE OUTCOMES

Caroline J. Duncombe, Felicia Watson, Kenneth Boey, Anya Kalata, Melanie Shears, Mariko Seilie, Shruthi Raman, Sean C. Murphy
University of Washington, Seattle, WA, United States

Young Investigator Award Session F

Regency Ballroom D - Ballroom Level (West Tower)

Wednesday, October 18, 9 a.m. – 2 p.m. U.S. Central Time Zone

JUDGE

Zannatul Ferdous
Connecticut Agricultural Experiment Station, Cheshire, CT, United States

Solomon Kibret Birhanie
West Valley Mosquito and Vector Control District, Ontario, CA, United States

Maggy Sikulu
GriQIMR Berghofer Medical Research Institute, Herston, Australia

Maria Luisa Simoes
Institute of Tropical Medicine Antwerp, Antwerp, Belgium

5212

MOSQUITOCIDAL ACTIVITY OF IVERMECTIN-TREATED NETTINGS AND SPRAYED WALLS ON *ANOPHELES GAMBIAE*

Majidah Hamid-Adiamoh[1], Abdul Khalie Muhammed[2], Benoit Sessinou Assogba[3], Harouna Massire Soumare[3], Lamin Jadama[3], Moussa Diallo[3], Mamadou Ousmane Ndiath[3], Umberto D'Alessandro[3], Alfred Amambua-Ngwa[3], Annette Erhart[3]
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5901

EFFECT OF LOW RELATIVE HUMIDITY OVER MORTALITY AND VIRAL VECTOR COMPETENCE IN *AEDES AEGYPTI*

Jaime Manzano[1], Gerard Terradas[1], Christopher J. Holmes[2], Joshua B. Benoit[2], Jason L. Rasgon[1]
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6127

MAXIMIZING THE USE OF HUMAN POPULATION MOVEMENT DATA FOR MALARIA CONTROL AND ELIMINATION

Greta Tam[1], Ipsita Sinha[1], Kulchada Pongsoipetch[1], Keobouphaphone Chindavongsa[2], Mayfong Mayxay[3], Sonexay Phalivong[1], Elizabeth Ashley[3], Benjamin Cowling[4], Olivo Miotto[1], Richard Maude[1]
[1]Mahidol Oxford Tropical Medicine Research Unit (MORU), Bangkok, Thailand, [2]Center of Malariology, Parasitology and Entomology (CMPE), Vientiane, Lao People's Democratic Republic, [3]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic, [4]University of Hong Kong, Hong Kong, Hong Kong

6189

IMPACT OF INDOOR RESIDUAL SPRAYING AT THE END OF THE RAINY SEASON IN A HOLOENDEMIC MALARIA TRANSMISSION SETTING IN NORTHERN ZAMBIA: A DEMONSTRATION PROJECT

Anne Martin[1], Mike Chaponda[2], Mbanga Muleba[2], James Sichivula Lupiya[2], Mary Gebhardt[1], Sophie Bérubé[1], Timothy Shields[1], Amy Wesolowski[1], Tamaki Kobiyashi[1], Douglas Norris[1], Daniel E. Impoinvil[3], Nduka Iwuchukwu[4], Gerald Chongo[5], Emmanuel Kooma[6], Paul Psychas[7], Matthew Ippolito[8], William J. Moss[1]
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6355

HOUSING STRUCTURES AND VISCERAL LEISHMANIASIS TRANSMISSION IN BARINGO COUNTY, KENYA

Katherine OBrien[1], Grace Kennedy[1], Hellen Nyakundi[2], Mwatela Kitondo[2], Wilson Biwott[3], Valaria Pembee[3], Richard Wamai[1]
[1]Northeastern University, Boston, MA, United States, [2]African Centre for Community Investment in Health, Chemolingot, Kenya, [3]Chemolingot Sub County Hospital, Chemolingot, Kenya

6382

THE EFFECT OF SOAP USE CONDITIONS ON SCHISTOSOME CERCARIAE IN WATER

Jiaodi Zhang[1], Ana K. Pitol[2], Laura Braun[3], Michael R. Templeton[1]
[1]Imperial College London, London, United Kingdom, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom

5409

EXPOSURE TO WEST NILE VIRUS AND STRAIN-SPECIFIC DIFFERENCES SHAPE TRANSMISSION BYCX. PIPIENSUNDER CLIMATE CHANGE

Rachel Fay[1], Mauricio Cruz-Loya[2], Elyse Banker[3], Jessica Stout[3], Anne Payne[3], Erin Mordecai[2], Alexander Ciota[3]
[1]School of Public Health, State University of New York Albany, Albany, NY, United States, [2]Biology Department, Stanford University, Stanford, CA, United States, [3]Arbovirus Laboratory, Wadsworth Center, New York State Department of Health, Slingerlands, NY, United States

6525

DOGS AS RICKETTSIA SPP. SENTINELS IN A PERUVIAN AMAZON NATURAL RESERVE BUFFER ZONE

Oliver A. Bocanegra[1], Cusi Ferradas[1], Winnie Contreras[1], Diana León-Luna[1], Andres M. Lopez[2], Raul Bello[3], Andres G. Lescano[1]
[1]Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA, United States, [3]Kawsay Biological Station, Puerto Maldonado, Peru

6616

IMPACT OF ARBOVIRUS INFECTION ON THE HOST-SEEKING BEHAVIOUR OF *AEDES AEGYPTI* MOSQUITOES

Tessa M. Visser[1], Chantal B. F. Vogels[2], Gorben P. Pijlman[3], Constantianus J. M. Koenraadt[1]
[1]Laboratory of Entomology, Wageningen University & Research, Wageningen, Netherlands, [2]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, [3]Laboratory of Virology, Wageningen University & Research, Wageningen, Netherlands

6661

INTEGRATED VECTOR MANAGEMENT IMPLEMENTED TO REDUCE DENV-1 POSITIVE CASES IN HUMANS AND MOSQUITOES IN MAYAGÜEZ, PUERTO RICO, 2022

Nexilianne Borrero, Raiza Alvarado, Luis Doel Santiago, Joanelis Medina, Cristhian R. Sáchez-Rolón, Verónica Rodríguez-Quiñonez, Jania P. García, Luis Marrero, Tatiana Ortiz-Ortiz, Julieanne Miranda-Bermúdez, Grayson Brown
Puerto Rico Vector Control Unit, Ponce, PR, United States

7141

CULEX PIPIENS AND CULEX MODESTUS ARE VECTORS FOR WEST NILE VIRUS AND USUTU VIRUS, RESPECTIVELY, IN BELGIUM

Alina Soto, Lander De Coninck, Celine Van De Wiele, Ann-Sophie Devlies, Ana Lucia Rosales Rosas, Lanjiao Wang, Jelle Matthijnssens, Leen Delang
Rega Institute for Medical Research, KU Leuven, Leuven, Belgium

7151

IDENTIFYING THE DEVELOPMENTAL REGULATORS OF *PLASMODIUM FALCIPARUM* IN THE MALARIA MOSQUITO *ANOPHELES GAMBIAE*

Yan Yan[1], Elaine Cheung[1], Duo Peng[2], W. Robert Shaw[3], Esrah Du[1], Alexandra Probst[1], Flaminia Catteruccia[3]
[1]Harvard TH Chan School of Public Health, Boston, MA, United States, [2]The Chan Zuckerberg Biohub, San Francisco, CA, United States, [3]Harvard TH Chan School of Public Health/Howard Hughes Medical Institute, Boston, MA, United States

7259

ANOPHELES SALIVARY ANTIBODY BIOMARKERS ASSESS THE EFFECTIVENESS OF PERSONAL INSECT REPELLENT AND IDENTIFY FOCI OF MALARIA TRANSMISSION IN SOUTHEAST MYANMAR

Ellen A. Kearney[1], Paul A. Agius[2], Punam Amratia[3], Su Yun Kang[3], Katherine O'Flaherty[1], Win Han Oo[4], Julia C. Cutts[1], Daniela Da Silva Goncalves[1], Kefyalew A. Alene[3], Aung Thi[5], Htin Kyaw Thu[4], Myat Mon Thein[4], Nyi Nyi Zaw[4], Wai Yan Min Htay[4], Aung Paing Soe[4], Naanki Pasricha[1], Brendan Crabb[1], James Beeson[1], Victor Chaumeau[6], Julie A. Simpson[7], Peter Gething[3], Ewan Cameron[3], Freya JI Fowkes[1]
[1]Burnet Institute, Melbourne, Australia, [2]Biostatistics Unit, Faculty of Health, Deakin University, Melbourne, Australia, [3]Malaria Atlas Project, Telethon Kids Institute, Perth, Australia, [4]Burnet Institute, Yangon, Myanmar, [5]Department of Public Health, Myanmar Ministry of Health and Sports, Yangon, Myanmar, [6]Shoklo Malaria Research Unit, Mahidol University, Mae Sot, Thailand, [7]Centre for Epidemiology and Biostatistics, The University of Melbourne, Melbourne, Australia

Workshop

Global Malaria and Gender Community of Practice (CoP)

Grand Hall KL- Ballroom Level (East Tower)
Wednesday, October 18, 10 a.m. - 12:30 p.m. U.S. Central Time Zone

Supported by the Bill & Melinda Gates Foundation, the Global Malaria and Gender Community of Practice (CoP) seeks to work with relevant stakeholders and partners to co-create, catalyze, and develop a cohesive, strategic, and measurable approach that integrates gender into malaria work and identifies gender intentional and gender-transformative opportunities to advance gender equity in the fight against malaria.

The objectives of the workshop are to:

a. Promote the "Gendered Approach to the Fight Against Malaria" Advocacy Agenda.

b. Enhance ongoing engagement and resourcing of the CoP's Advocacy Agenda.

c. Promote the CoP to individuals and organizations working in the field of malaria and/or gender.

d. Bring together existing and new stakeholders at the local, regional, and global levels who are engaged in malaria eradication and gender equality work for discussions and deliberations on emerging paradigms in malaria and gender intersection.

University of Notre Dame, Pan-African Mosquito Control Association and Northshore Mosquito Abatement District

Offsite Event

Wednesday, October 18, 10 a.m. - 3 p.m. U.S. Central Time Zone

Attendees will meet at the Hyatt Regency Chicago by 7:15 am and depart for the North Shore Mosquito Abatement District (NSMAD) (https://www.nsmad.org) in the Chicago suburbs by Ubers/ Taxis. Transportation provided to/from the Hyatt Regency Chicago. Breakfast and lunch provided.

Come and experience mosquito control in the US-Midwest context, with emphasis on Integrated Pest Management (IPM) and Larval Source Management (LSM). We welcome you to tour the NSMAD facility and learn about the equipment, procedures, data management tools, and administrative/funding model used across the Chicago area.

Also participating:

- Northwest Mosquito Abatement District (https://www.nwmadil.com/)
- Des Plaines Valley Mosquito Abatement District (https://dvmad.org/)
- North Shore Mosquito Abatement District Trustees (political leadership of the district) and local stakeholders
- Clarke Mosquito Control (a major vendor of mosquito control products in the USA as well as contractor for municipalities wishing to outsource mosquito control, https://www.clarke.com)
- Valent Biosciences (A global leader with a comprehensive range of target-specific biorational solutions for public health professionals, https://www.valentbiosciences.com)
- Leading Edge (Drones, https://leaaerialtech.com/ and data management, https://leateam.com/)

ACCTMTH Clinical Research Award Session

DuSable- Third Floor (West Tower)

Wednesday, October 18, 11 a.m. – 3 p.m. U.S. Central Time Zone

The ACCTMTH Clinical Research Award recognizes excellence in clinically-oriented research presented by a student (within six months of completing undergraduate or master's level training, including medical undergraduate degrees) or person in graduate medical training at the Annual Meeting.

CHAIR

Obinna Nnaemeka Nnedu
Ochsner Clinic Foundation, New Orleans, LA, United States

JUDGE

German Henostroza
University of Alabama at Birmingham, Birmingham, AL, United States

Kristina Krohn
University of Minnesota, Roseville, MN, United States

Bryan N. Tegomoh
University of Yaounde I Medical School, Cameroon, Yaounde, Cameroon

5610

UTILITY OF THE LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY FOR THE DIAGNOSIS OF VISCERAL LEISHMANIASIS FROM BLOOD SAMPLES IN ETHIOPIA

Dawit Gebreegziabiher Hagos[1], Yazezew Kebede kiros[1], Mahmud Abdulkadir[1], Dawit Wolday[1], D. F. Henk Schallig[2]
[1]Mekelle University, college of health Sciences, Mekelle, Ethiopia, [2]University of Amsterdam, Academic Medical Centre (AMC), Amsterdam, Netherlands

6277

HELMINTH INFECTION DRIVES REDUCED SERUM COMPLEMENT AND COMPLEMENT REGULATORY PROTEIN ACTIVATION IN INDIVIDUALS WITH COINCIDENT TYPE 2 DIABETES

Anuradha Rajamanickam[1], Bindu Dasan[1], Saravanan Munisankar[1], Pradeep Aravindan Menon[2], Fayaz Ahamed Shaik[1], Ponnuraja Chinnaiyan[2], Thomas B. Nutman[3], Subash Babu[1]
[1]NIRT-ICER, Chennai, India, [2]National Institute for Research in Tuberculosis, Chennai, India, [3]Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda,, MD, United States

6374

EVALUATION OF TUBERCULOSIS TREATMENT OUTCOME AND THEIR PREDICTORS IN PUBLIC AND PRIVATE HEALTH INSTITUTIONS, SOUTHEAST, NIGERIA; AN IMPLICATION FOR POLICY IMPLEMENTATION, CLIENT CENTERED EDUCATION AND TREATMENT FOLLOW-UP

Nelson C. Eze
Federal Ministry of Health, Abuja, Nigeria

5726

MOLECULAR-BASED EVIDENCE OF TRANSMISSION OF ATYPICAL TRYPANOSOMIASIS (A-HAT) IN HUMANS IN SELECTED COMMUNITIES IN THE SUHUM MUNICIPALITY OF GHANA

Kofi Agyapong Addo
Akenten Appiah-Menka University of Skills Training and Entrepreneurial Development, Kumasi, Ghana

6509

AFTERSHOCK: PERSISTENT INFLAMMATION AND ENDOTHELIAL ACTIVATION IN ADULT SURVIVORS OF DENGUE SHOCK

Angela McBride[1], Phan Vinh Tho[2], Luong Thi Hue Tai[2], Nguyen Thanh Phong[2], Nguyen Thanh Ngoc[3], Duyen Huynh Thi Le[3], Nguyen Lam Vuong[3], Louise Thwaites[3], Martin J Llewelyn[1], Nguyen Van Hao[4], Sophie Yacoub[3]
[1]Brighton and Sussex Medical School, Brighton, United Kingdom, [2]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, [3]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [4]University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam

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DETECTING AND TREATING SEPTIC SHOCK IN DIARRHEAL PATIENT WITH POINT OF CARE (POC) LACTATE TESTING: A LIFE-SAVING STRATEGY BEYOND ICU

Lubaba Shahrin, Monira Sarmin, Irin Parvin, Mohammod Jobayer Chisti
International Centre for Diarrheal Disease Research, Bangladesh, Dhaka, Bangladesh

6790

INVESTIGATING THE ACCURACY OF MALARIA DIAGNOSTIC TESTS: A BAYESIAN META-ANALYSIS COMPARING CONVENTIONAL AND ULTRASENSITIVE RAPID DIAGNOSTIC TOOLS

Muhammed Elfaituri, Taha Khaled
University of Tripoli, Tripoli, Libyan Arab Jamahiriya

7195

REDUCING LOW BIRTH WEIGHT BY ADDING TWO DOSES OF AZITHROMYCIN TO THE INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY WITH SULFADOXINE PYRIMETHAMIN: A RANDOMIZED CONTROLLED TRIAL IN BURKINA FASO

Moussa Lingani[1], Serge Henri Zango[1], Innocent Valéa[1], Sékou Samadoulougou[2], Michèle Dramaix[3], Halidou Tinto[1], Philippe Donnen[3], Annie Robert[4]
[1]Institut de Recherche en Sciences de la Santé/Direction Régionale du Centre Ouest (IRSS/DRCO), Nanoro, Burkina Faso, [2]Evaluation Platform on Obesity Prevention, Quebec Heart and Lung Institute Research Center, Quebec City, QC G1V 4G5, Quebec, QC, Canada, [3]École de santé publique, Université Libre de Bruxelles. CP594, route de Lennik 808, 1070 Bruxelles, Bruxelles, Belgium, [4]Epidemiology and Biostatistics Research Division, Institut de recherche expérimentale et clinique, Université catholique de Louvain, Brussels B1.30.13, Clos Chapelle-aux-Champs 30, B-1200 Brussels, Bruxelles, Belgium

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DYMANICS OF SUBMICROSCOPIC MALARIA INFECTION IN SOUTHERN BENIN

Akpeyedje Yannelle Dossou
Institut de Recherche Clinique du BENIN, Abomey-Calavi, Benin

5488

IMPACT OF KNOWLEDGE, ATTITUDES, AND PRACTICES REGARDING LONG-LASTING IMPREGNATED NETS ON THE PREVALENCE OF MALARIA INFECTION AMONG CHILDREN UNDER 5 YEARS OF AGE IN THE DODJI-BATA DISTRICT OF SOUTHERN BENIN

Tchehoundje Benjamine Sèna
clinical research institute of Benin, Abomey-calavi, Benin

5439

GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* AND GENETIC PROFILE IN CHILDREN WITH ACUTE UNCOMPLICATED MALARIA IN CAMEROON

Theresia Njuabe Metoh[1], Jun-Hu Chen[2], Philip Fongah[3], Xia Zhou[4], Roger Somo-Moyou[5], XiaoNong Zhou[6]
[1]University of Bamenda, Bamenda, Cameroon, [2]NIPD CDC, Shanghai, China, [3]ITC Enschede, University of Twenty, Hengelosestraat 99, 7514 AE Enschede, Hengelosestraat, Netherlands, [4]National Institute of Parasitic Dis eases, Chinese Centre for Disease Control and Prevention, Shanghai 200025, People's Republic of China., National Institute of Parasitic Diseases (NIPD-CDC, China, [5]University of Yaounde I, Yaounde, Cameroon, [6]National Institute of Parasitic Dis eases, Chinese Centre for Disease Control and Prevention, Shanghai 200025, People's Republic of China, Shanghai, China

5528

DETERMINANTS OF VACCINE COVERAGE AND ACCEPTABILITY OF MALARIA VACCINE IN CHILDREN AGED 6-23 MONTHS IN MALAWI: A HEALTHCARE PROVIDER'S PERSPECTIVE

Dumisile Sibongile Nkosi
Training and Research Unit of Excellence, Blantyre, Malawi

6075

EXTERNAL VALIDATION OF THE WORLD HEALTH ORGANIZATION INTEGRATED MANAGEMENT OF CHILDHOOD ILLNESS (IMCI) PROTOCOL FOR MALARIA TESTING IN LOW MALARIA RISK AREAS

Nadia Cattaneo[1], Alexandra V. Kulinkina[2], Chacha Mangu[3], Victor P. Rwandarwacu[4], Ludovico Cobuccio[1], Lameck Luwanda[5], Godfrey Kavishe[3], Sabine Renggli[5], Geofrey I. Ashery[5], Magreth Joram[5], Ibrahim E. Mtebene[5], Peter Agrea[3], Humphrey Mhagama[3], Joseph Habakurama[4], Antoinette Makuza Safi[4], Jonathan Niyonzima[4], Emmanuel Kalisa[4], Angelique Ingabire[4], Cassien Havugimana[4], Gilbert Rukundo[4], Honorati Masanja[5], Nyanda E. Ntinginya[3], Valérie D'Acremont[1], Rainer Tan[1]
[1]Center for Primary Care and Public Health (Unisanté), Lausanne, Switzerland, [2]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [3]National Institute of Medical Research – Mbeya Medical Research Center, Mbeya, United Republic of Tanzania, [4]Swiss Tropical and Public Health Institute, Kigali, Rwanda, [5]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania

7137

SEROLOGIC RESPONSE USING ELISA ANTI-VI IGG ANTIBODIES AT SEVERAL TIME POINTS FOLLOWING IMMUNIZATION WITH TYPBAR-TCV AMONG HIV INFECTED CHILDREN IN KARACHI PAKISTAN

Zoya Haq[1], Farah Qamar[2], Sonia Qureshi[2], Fatima Mir[2], Mohammad Tahir Yousafzai[2], Rabab Batool[2]
[1]Liaquat National Medical College, Karachi, Pakistan, [2]Aga Khan University Hospital, Karachi, Pakistan

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) SIE Subcommittee Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 11 a.m. - Noon U.S. Central Time Zone

Speaker Ready Room

Grand Suite 2AB - Ballroom Level (East Tower)
Wednesday, October 18, Noon - 5 p.m. U.S. Central Time Zone

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Mentor/Trainee Lunch Kick-Off Panel

Crystal Ballroom C - Lobby Level (West Tower)
Wednesday, October 18, Noon- 1:30 p.m. U.S. Central Time Zone

An introduction to the experts, their fields, and a quick discussion of suggested topics to get experts and trainees in the mentoring mindset for their one-on-two Mentor/Mentee lunch. By invitation only.

Press Room

Randolph 1A - Concourse Level (East Tower)
Wednesday, October 18, Noon- 5 p.m. U.S. Central Time Zone

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) SIRACA Subcommittee Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, Noon- 2 p.m. U.S. Central Time Zone

Point-of-Entry: First-Time Attendee Orientation

Crystal Ballroom A - Lobby Level (West Tower)
Wednesday, October 18, 1 p.m. - 2 p.m. U.S. Central Time Zone

Are you new to the ASTMH Annual Meeting and want to get the lay of the land? Don't miss our Point of Entry session. ASTMH Board Member Desiree LaBeaud will orient new attendees to the schedule, session structure and highlights of the Annual Meeting. Meet others attending the conference for the first time and expand your professional network while learning the ins and outs of the meeting.

POINT OF ENTRY: FIRST-TIME ATTENDEE ORIENTATION

Desiree LaBeaud
Stanford University, Stanford, CA, United States

Workshop

Malaria No More/Forecasting Healthy Futures/ ACGH - Climate Fresk: Empowerment in Action. A Workshop to Understand the Physics, Causes and Consequences of Climate Change

Michigan 1A - Concourse Level (East Tower)
Wednesday, October 18, 1 p.m. - 4 p.m. U.S. Central Time Zone

In partnership with the ASTMH Committee on Global Health (ACGH), Forecasting Healthy Futures, an initiative of Malaria No More, plans to host a Climate Fresk workshop as a part of a climate-health series of events for ASTMH. Through the workshop, we aim to:

1) Offer a collaborative learning experience for ACGH members and the larger ASTMH community to understand the science, causes, and consequences of climate change, based on the IPCC reports.

2) Encourage participants to engage with climate change by identifying strategic linkages to their existing body of work, and

3) Increase awareness of potential climate-health solutions that participants can incorporate into their specific work in infectious/ tropical disease or health in general

More generally, we hope this workshop will help to make ACGH the voice of climate change and health within ASTMH, and to generate momentum for future climate change and health activities within ASTMH.

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) SALS Subcommittee Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 2 p.m. - 3:30 p.m. U.S. Central Time Zone

Workshop

Biological Threat Reduction Program - Supporting Global Health Engagement Biosafety and Biosecurity Goals through Cooperative Biosurveillance Studies

Acapulco - Ballroom Level (West Tower)
Wednesday, October 18, 2 p.m. - 4 p.m. U.S. Central Time Zone

Come out and learn how you can be a part of the BTRP mission to help strengthen capabili-ties of partner nations and the international community to prevent, detect, and prepare for outbreaks caused by biological pathogens through efforts focused on improving biosurveil-lance to support early and accurate warning of biological threats and reporting of incidents to appropriate national, regional, and international bodies.

Workshop

Writing for Publication and Discovery: Best Practice for Manuscript Writing and Open Science

Grand Hall K/L - Ballroom Level (East Tower)
Wednesday, October 18, 2 p.m. – 4 p.m. U.S. Central Time Zone

PLOS Neglected Tropical Diseases presents a writing workshop to equip and support early-career researchers and re-searchers from disease-endemic regions in understanding the publication process and best practices for manuscript writing. The session will address framing your research and choosing a journal, mapping out your paper, abstracts, the mechanics of writing, how to properly respond to reviewer comments, and best practices for data sharing and Open Science. The panel of presenters will feature PLOS Editors-in-Chief, and this workshop is designed to give attendees the opportunity to tailor the end of the session with an Editor Q&A.

Young Investigator Award Committee Meeting

Regency Ballroom A (West Tower)
Wednesday, October 18, 2 p.m. - 3:30 p.m. U.S. Central Time Zone

Student Reception

Crystal Ballroom C - Lobby Level (West Tower)
Wednesday, October 18, 2:30 p.m. - 3:30 p.m. U.S. Central Time Zone

The ASTMH Board of Directors invites students, postdoctoral fellows and residents to the student reception. This reception is an opportunity to meet fellow trainees, network with colleagues and mentors and engage in conversation with Society leaders.

ACCTMTH Clinical Research Award Committee Meeting

DuSable- Third Floor (West Tower)
Wednesday, October 18, 3 p.m. - 4 p.m. U.S. Central Time Zone

American Committee of Medical Entomology (ACME) Council Meeting

Skyway 260 -Skyway Level (East Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m. U.S. Central Time Zone

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Council Meeting

Gold Coast - Concourse Level (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m. U.S. Central Time Zone

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Council Meeting

Atlanta - Ballroom Level (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m. U.S. Central Time Zone

ASTMH Committee on Global Health (ACGH) Council Meeting

Columbian - Concourse Level (West Tower)
Wednesday, October 18, 4:00 p.m. - 5:30 p.m. U.S. Central Time Zone

Clinical Group (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH) Council Meeting

McCormick - Third Floor (West Tower)
Wednesday, October 18, 3:30 p.m. - 5:30 p.m. U.S. Central Time Zone

Young Investigator Award Reception

Grand Hall MN- Ballroom Level (East Tower)
3:45 p.m. -4:30 p.m.

Plenary Session 1

LIVE STREAMING

Plenary Session I: Opening Session and Awards Program

Grand Ballroom - Ballroom Level (East Tower)
Wednesday, October 18, 5:30 p.m. - 7 p.m. U.S. Central Time Zone

This session does not carry CME credit.

CHAIR
Daniel G. Bausch
FIND, Geneva, Switzerland

5:30 p.m.
WELCOMING REMARKS
Christine Petersen
University of Iowa, Iowa City, IA, United States

5:45 p.m.
HIV/AIDS AND COVID-19 PANDEMICS: IMPLICATIONS FOR GLOBAL HEALTH SECURITY

Ambassador Dr. John N. Nkengasong
U.S. Global AIDS Coordinator and Special Representative for Global Health Diplomacy
The United States President's Emergency Plan for AIDS Relief
Washington, DC, United States

Dr. John N. Nkengasong was selected to lead the new U.S. Bureau of Global Heath Security and Diplomacy that was launched August 1. The Bureau's mission is to fortify global health and help prevent, detect, control and respond to infectious diseases, including HIV/AIDS, through international cooperation. Dr. Nkengasong serves as Ambassador-at-Large, U.S. Global AIDS Coordinator, and Senior

Bureau Official for Global Health Security and Diplomacy, reporting directly to U.S. Secretary of State Antony Blinken.

Prior to this role, he was the first Director of Africa CDC. He has received numerous prestigious awards and recognitions, and has authored or co-authored over 250 peer-reviewed papers and book chapters in professional journals.

PEPFAR is the largest commitment by any nation to address a single disease in history, preventing millions of HIV infections, saving lives and making progress toward ending the HIV/AIDS pandemic.

Through Dr. Nkengasong's leadership, a framework for transforming Africa CDC into a full autonomous health agency of the Africa Union was established. He also led the COVID-19 response in Africa, coordinating with heads of state and governments across the continent, among other achievements, to fight the COVID-19 pandemic and helped secure 400 million doses of COVID-19 vaccines at the height of vaccine scarcity. Dr. Nkengasong also served as acting deputy principal director of the Center for Global Health, as well as the Division of Global HIV and TB's chief of the International Laboratory Branch at the U.S. Centers for Disease Control and Prevention.

As a world-renowned public health leader, Dr. Nkengasong's contributions to global health have been recognized by numerous prestigious awards and honors including the Bill & Melinda Gates Foundation, 2020 Global Goalkeeper Award; Time Magazine, 2021 Time 100 List of Most Influential People; Fortune magazine, 2021 World's 50 Greatest Leaders; Bloomberg, 2021 Bloomberg 50 Influential People; and U.S. Centers for Disease Control and Prevention, Shepard Award and William Watson Medal of Excellence. In 2022, he was invited to join the National Academy of Medicine and he became the first laureate of the Virchow Prize for Global Health. Dr. Nkengasong also holds the rare honor of being knighted by the governments of Sénégal, Côte d'Ivoire, and Cameroon.

6:15 p.m.
AWARDS PROGRAM
Daniel G. Bausch
FIND, Geneva, Switzerland

Recognition of ASTMH/BMGF Annual Meeting Travel Awards

Recognition of Burroughs Wellcome Fund - ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

Donald Krogstad Award for Early-Career Malian Scientists

Moussa Sangare
University of Sciences, Techniques, and Technology of Bamako, Mali

Recognition of Young Investigator Awards

Recognition of ACCTMTH (Clinical Group) Clinical Research Award

Recognition of ASTMH Fellowship and Grant Recipients

Recognition of 2023 Fellows of ASTMH (FASTMH)

Recognition of ASTMH Distinguished International Fellows (FASTMH)

Subash Babu
NIAID-ICER, India

Alan Cowman
Walter & Eliza Hall Institute of Medical Research, Australia

Patricia Graves
James Cook University, Australia

Jennifer Keiser
Swiss Tropical & Public Health Institute, Switzerland

Marcelo Labruna
Universidade de São Paulo, Brazil

Maria Anice Sallum
Universidade de São Paulo, Brazil

Eli Schwartz
Center for Geographic Medicine Tropical Disease, Israel

Mauro Teixeira
Universidade Federal d Minas Gerais, Brazil

Alan J. Magill Fellow
Issiaka Soulama
Institut de Recherche en Sciences de la Santé (IRSS), Burkina Faso

Subgroup Medals and Awards

Harry Hoogstraal Medal (ACME)

Jose Ribeiro
National Institute of Allergy and Infectious Diseases, United States

William Trager Award For Basic Parasitology (ACMCIP)

Jonathan Marchant
Medical College of Wisconsin, United States

Dalrymple-Young (ACAV)

Nikos Vasilakis
University of Texas Medical Branch, United States

Society-Level Medals and Awards

Communications Award
"Small Victories: Nearly 30 years after apartheid's demise, a reporter revisits children's health in South Africa"
Meredith Wadman
Science

Bailey K. Ashford Medal

Andrea L. Conroy
Indiana University, United States

Manoj Theodore Duraisingh
Harvard T. H. Chan School of Public Health, United States

Philippe J. Guérin
University of Oxford, United Kingdom

Matt Laurens
University of Maryland School of Medicine, United States

Clara Southmayd Ludlow Medal

Dyann Wirth
Harvard T. H. Chan School of Public Health, United States

Donald Mackay Medal

Maria Friedly
WHO, Congo

Walter Reed Medal

Charles H. Calisher
Colorado State University, United States

Opening Reception

Riverside Center - Exhibit Level (East Tower)
Wednesday, October 18, 7 p.m. - 9:30 p.m. U.S. Central Time Zone

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Wednesday, October 18, 7 p.m. - 9:30 p.m. U.S. Central Time Zone

Thursday, October 19

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 5 p.m. U.S. Central Time Zone

Speaker Ready Room (Closed 11 a.m. - Noon)

Grand Suite 2AB - Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 5 p.m. U.S. Central Time Zone

Meeting Sign-Up Room

Horner and Ogden - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 7 p.m. U.S. Central Time Zone

TropStop - Student/Trainee Lounge

Grand Hall MN – Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 5 p.m. U.S. Central Time Zone

This casual setting, designed with students, trainees and residents in mind (coffee, internet), is your place for a break from the fast-pace of the meeting and relax with colleagues and friends. Check out the "Career Chats," held in the TropStop. This will be your opportunity to meet professionals in the fields of tropical medicine and global health who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 7 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 7 p.m. U.S. Central Time Zone

Diploma Course Directors Meeting

Wright - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m. U.S. Central Time Zone

International Membership Committee Meeting

Haymarket - Concourse Level (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m. U.S. Central Time Zone

AJTMH Editorial Board Meeting

McCormick - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m. U.S. Central Time Zone

Centennial Travel Award Committee Meeting

DuSable - Third Floor (West Tower)
Thursday, October 19, 7 a.m. - 8 a.m. U.S. Central Time Zone

Special Session 1A

A Conversation about NIH Pre-Clinical Services

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 7 a.m. - 7:30 a.m. U.S. Central Time Zone

The purpose of this conversation is to learn more about the NIH pre-clinical contractual services offered to scientists. Join us and meet other larger collaborative grant holders (CREID network, ICMR, TMRC, etc.) that attend ASTMH but may not normally be in the sessions you attend.

CHAIR
Christine Petersen
University of Iowa, Iowa City, IA, United States

NIH PRE-CLINICAL SERVICES
John Pesce
NIH, Bethesda, MD, United States

Press Room

Randolph 1A - Concourse Level (East Tower)
Thursday, October 19, 7:45 a.m. - 5 p.m. U.S. Central Time Zone

Symposium 2

How the Pandemic Pushed the Paradigm to Elevate the Voice of Health Care Providers in Public Health Problem-Solving

Grand Ballroom A - Ballroom Level (East Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The COVID pandemic interrupted our typical ways of working. With the ability to meet, work and learn in-person suspended, new approaches were needed to maintain progress in public health programs. This presented an opportunity to push the paradigm for public health training, resulting in new and creative ways to engage health care providers at all levels, bringing in new voices and perspectives across the health care spectrum. This session will explore some of these experiments and their potential to change the paradigm of training and engagement in global health and public health problem solving. Historically, formal, in-service training has been hierarchical, often relying on male physicians from international organizations or the national level of a country to define learning needs and methods for sub-national staff and health workers on the front lines. However, an estimated 70% of health care workers are female and many at the community level are nurses, aides or volunteers rather than physicians. Their voices and experience are seldom included in training or problem-solving for new solutions. Most significant learning that contributes to improved performance takes place outside of formal training but occurs through informal and incidental forms of learning between

peers. However, the most prevalent pedagogies have ignored such learning and been limited to training focused on knowledge transmission from teacher (knowledge holder) to student (knowledge recipient) hierarchies, underestimating the capacity of health care workers to create knowledge and undervaluing the educational value of their voices and experiences. New approaches are needed to tackle increasingly complex, globally interconnected challenges. Transformation requires realizing how much we can learn from each other (peer learning), experiencing the power of defying distance to solve problems together (remote learning), and feeling a growing sense of belonging to a community (social learning), emergent across country borders and health system levels (networked learning). This session invites you to learn from practical approaches and interventions that are forging new paths away from traditional, knowledge-transfer to intrinsically - motivated, participatory peer learning that builds on the direct experience and local contexts of health practitioners and volunteers and strengthens global capacity to support local transformation.

CHAIR

Julie Jacobson
Bridges to Development, Vashon, WA, United States

Reda Sadki
The Geneva Learning Foundation, Geneva, Switzerland

8 a.m.
INTRODUCTION

8:10 a.m.
PEER LEARNING FOR GLOBAL HEALTH: WHY AND LEARNING SCIENCE WHAT UNDERPINS IT

Reda Sadki
The Geneva Learning Foundation, Geneva, Switzerland

8:30 a.m.
ENGAGING NEW VOICES AND EMPOWERING LOCAL PROBLEM SOLVING: CASE STUDY 1; IMMUNIZATION

Maria Fernanda Monzón
Ministry of Health, Corrientes, Argentina

8:45 a.m.
ENGAGING NEW VOICES AND EMPOWERING LOCAL PROBLEM SOLVING: CASE STUDY 2 FEMALE GENITAL SCHISTOSOMIASIS

Ruth Allotey
Ministry of Health, Accra, Ghana

9 a.m.
ENGAGING NEW VOICES AND EMPOWERING LOCAL PROBLEM SOLVING: CASE STUDY 3; INTEGRATED SKIN DISEASE TRAINING

George Taleo
Consultant, Port Vila, Vanuatu

9:15 a.m.
A NEW PARADIGM FOR EQUITABLE AND INCLUSIVE LEARNING IN PUBLIC HEALTH

Alan Brooks
Bridges to Development, Geneva, Switzerland

Scientific Session 3

Malaria - Elimination

Grand Ballroom B - Ballroom Level (East Tower)

Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Karl Seydel
Michigan State University, East Lansing, MI, United States

Siv Sovannaroth
National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia

8 a.m. **5000**

SMALL-SCALE RELEASE OF NON-GENE DRIVE MOSQUITOES IN BURKINA FASO: FROM ENGAGEMENT IMPLEMENTATION TO ASSESSMENT, A LEARNING JOURNEY

Lea Pare Toe[1], **Nourou Barry**[1], Anselme D. Ky[1], Souleymane Kekele[1], Wilfrid Medah[1], Korotimi Bayala[1], Mouhamed Drabo[2], Delphine Thizy[2], Abdoulaye Diabate[1]
[1]Institut de recherche en sciences de la santé (IRSS/UNB), Bobo Dioulasso, Burkina Faso, [2]Department of Life Sciences, Imperial College London, London, UK, Bobo Dioulasso, Burkina Faso

8:15 a.m. **5001**

ACCELERATING MALARIA ELIMINATION IN CAMBODIA: ANALYSIS OF IMPACT OF THE "LAST MILE" INTENSIFICATION PLAN

Siv Sovannaroth[1], Chawarat Rotejanaprasert[2], Pengby Ngor[2], Anchalee Jatapai[2], Richard J. Maude[2]
[1]National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, [2]Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

8:30 a.m. **5002**

MALARIA TREND AND IDENTIFICATION OF RISK GROUPS IN AN ELIMINATION SETTING, 2019-2022

Safia Mohammed[1], Majda Hassan[1], Bimkubwa Khamis[1], Bakar Mohammed[1], Shija J. Shija[1], Mohamed Haji[1], Humphrey Mkali[2], Saidi Mgata[2], Stella Makwaruzi[2], Michael Gulaka[2], Nicodemus Govella[2], Sigsibert Mkude[2], Erik Reaves[3], Naomi Serbantez[4], Chonge Kitojo[4], Geofrey Makenga[2], Isobel Routledge[5], Roly Gosling[5]
[1]Zanzibar Malaria Elimination Program, Ministry of Health, Zanzibar, United Republic of Tanzania, [2]Dhibiti Malaria project, Population Services International, Dar es Salaam, United Republic of Tanzania, [3]U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania, [4]U.S. President's Malaria Initiative, U.S. Agency for International Development, Dar es Salaam, United Republic of Tanzania, [5]PMI Insights Project, Malaria Elimination Initiative, University of California San Francisco, California, CA, United States

8:45 a.m. **5003**

EFFECTIVENESS OF THE EXPANDED ROLE OF COMMUNITY HEALTH WORKERS IN MALARIA ELIMINATION IN MYANMAR: AN OPEN STEPPED-WEDGE CLUSTER-RANDOMISED CONTROLLED TRIAL

Win Han Oo[1], Win Htike[1], May Chan Oo[1], Ei Phyu Htwe[1], Aung Khine Zaw[1], Kaung Myat Thu[1], Naw Hkawng Galau[1], Julia C. Cutts[2], Nilar Aye Tun[1], Nick Scott[2], Katherine O'Flaherty[2], Paul A. Agius[3], Freya J I Fowkes[2]
[1]Burnet Institute, Yangon, Myanmar, [2]Burnet Institute, Melbourne, Australia, [3]Deakin University, Melbourne, Australia

9 a.m.

5004

MALARIA CASE-BASED SURVEILLANCE FOR THE INTERRUPTION OF LOCAL MALARIA TRANSMISSION IN TANZANIA MAINLAND

Elizabeth kasagama[1], Khalifa Munisi[2], Denis Kailembo[1], Fabrizio Molteni[1], Noela Kisoka[1], Pai Chambongo[2], Christian Lengeler[3], Samwel Lazaro[2], Sijenunu Aron[2]
[1]SWISS TPH, Dar es Salaam, United Republic of Tanzania, [2]NMCP, Dodoma, United Republic of Tanzania, [3]SWISS TPH, Swiss Tropical and Public Health Institute, Basel, Switzerland

9:15 a.m.

5005

ENHANCED ACTIVE CASE DETECTION TO ELIMINATE MALARIA IN YALA PROVINCE, THAILAND

Suravadee Kitchakarn[1], Sathapana Naowarat[2], Prayuth Sudathip[1], Pratin Dharmarak[3], Deyer Gopinath[4], Hope Simpson[5], Rungrawee Tipmontree[1], Chantana Padungtod[1], Donal Bisanzio[2], Niparueradee Pinyajeerapat[6], David Sintasath[6], Jui A. Shah[2]
[1]Division of Vector Borne Diseases, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, [2]Inform Asia: USAID's Health Research Program, RTI International, Bangkok, Thailand, [3]Independent consultant, Bangkok, Thailand, [4]World Health Organization, Nonthaburi, Thailand, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom, [6]U.S. President's Malaria Initiative, United States Agency for International Development (USAID), Regional Development Mission for Asia, Bangkok, Thailand

9:30 a.m.

5006

A PROGRAM EVALUATION OF REACTIVE FOCAL DRUG ADMINISTRATION IN NORTHERN SENEGAL

Ellen Ferriss[1], Caterina Guinovart[2], Yakou Dieye[3], Moustapha Cisse[3], Abiboulaye Sall[3], Tidiane Thiam[3], Adam Bennett[1]
[1]PATH, Seattle, WA, United States, [2]PATH, Barcelona Institute for Global Health, Barcelona, Spain, [3]PATH, Dakar, Senegal

Scientific Session 4

Global Health: Maternal Health, Community Health and Non-Communicable Diseases

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Mamadou O. Diallo
Centers for Disease Control and Prevention, Atlanta, GA, United States

Andrea Buchwald
University of Maryland School of Medicine, Baltimore, MD, United States

8 a.m.

5007

PREGNANT WOMEN EXCLUSION IN CLINICAL TRIALS FOR MALARIA, TUBERCULOSIS, AND COVID-19: A REVIEW OF TRIAL REGISTRY DATA

Elias Rejoice Maynard Phiri[1], Claudia Emerson[2], Lizzie Divala[3], Aaron Roberts[2], Lufina Tsirizani-Galileya[4], Randy George Mungwira[5], Titus Divala[6]
[1]Malawi-Liverpool-Wellcome Programme, Blantyre, Malawi, [2]MacMaster University, Hamilton, ON, Canada, [3]Glasgow University, Glasgow, United Kingdom, [4]University of Cape Town, Cape Town, South Africa, [5]World Health Organization, Turin, Italy, [6]Wellcome Trust, London, United Kingdom

8:15 a.m.

5008

NODDING SYNDROME CLINICAL CHARACTERISTICS, RISKS FACTORS, ACCESS TO TREATMENT, AND PERCEPTIONS IN THE GREATER MUNDRI AREA, SOUTH SUDAN

Gasim Abd-Elfarag[1], Jake Mathewson[2], Lukudu Emmanuel[1], Arthur Edridge[3], Stella van Beers[2], Mohamed Sebit[4], Robert Colebunders[5], Michaël van Hensbroek[3], Ente Rood[2]
[1]Access for Humanity, Juba, South Sudan, [2]Kit-Royal Tropical Institute, Amsterdam, Netherlands, [3]Amsterdam Center for Global Health, Department of Pediatrics and Department of Global Health, Amsterdam, Netherlands, [4]University of Juba, Juba, South Sudan, [5]Global Health Institute, University of Antwerp, Antwerp, Belgium

8:30 a.m.

5009

DIABETES-ASSOCIATED MAJOR LIMB AMPUTATION IN SOLOMON ISLANDS: EPIDEMIOLOGICAL CHARACTERISTICS AND CLINICAL MANAGEMENT

Dylan Bush[1], Thomas Fitzpatrick[2], Adrian Garcia Hernandez[3], Rooney Jagilly[4], Eileen Natuzzi[5], Mickey Olangi[6], Mark Love[7], Jones Ghabu[4], Hugo Bugoro[8], Alexandra Martiniuk[9]
[1]Solomon Islands Ministry of Health and Medical Services, Honiara, Solomon Islands, [2]Australian Volunteers International, Melbourne, Australia, [3]Columbia University, New York City, NY, United States, [4]Solomon Islands National Referral Hospital, Honiara, Solomon Islands, [5]Georgetown Center for Australian, New Zealand & Pacific Studies, Georgetown, DC, United States, [6]Kilu'ufi Hospital, Auki, Solomon Islands, [7]Griffith University, Brisbane, Australia, [8]Solomon Islands National University, Honiara, Solomon Islands, [9]University of Sydney School of Public Health, Sydney, Australia

8:45 a.m.

5010

LEVERAGING PARTICIPATORY MAPPING AND FINE-SCALE GEOSPATIAL ANALYSES TO OPTIMIZE COMMUNITY-BASED HEALTHCARE PROGRAMS AND POLICIES

Felana A. Ihantamalala[1], Vincent Herbreteau[2], Christophe Revillion[3], Lucas Longour[2], Michelle V. Evans[2], Mauricianot Randriamihaja[1], Laura F. Cordier[1], Benedicte Razafinjato[1], Luc Rakotonirina[1], Isaïe Jules Andriamiandra[4], Karen E. Finnegan[5], Matthew H. Bonds[5], **Andres Garchitorena**[2]
[1]ONG Pivot, Ranomafana, Madagascar, [2]Institut de Recherche pour le Developpement, Montpellier, France, [3]Université de La Réunion, La Réunion, France, [4]Ministry of Public Health, Antananarivo, Madagascar, [5]Harvard Medical School, Boston, MA, United States

9 a.m.

5011

WHO IS MISSED IN A COMMUNITY-BASED SURVEY: DIFFERENCES IN SOCIO-DEMOGRAPHIC CHARACTERISTICS AND HEALTHCARE SEEKING AMONG MISSED AND SAMPLED INDIVIDUALS FOR A SEROSURVEY IN ZAMBIA AND IMPLICATIONS FOR BIASED ESTIMATES OF HEALTHCARE SEEKING, VACCINATION COVERAGE, AND SEROPREVALENCE

Natalya Kostandova[1], Simon Mutembo[1], Christine Prosperi[1], Francis D. Mwansa[2], Chola N. Daka[3], Harriet Namukoko[3], Bertha Nachinga[3], Gershom Chongwe[4], Innocent Chilumba[4], Kalumbu H. Matakala[5], Gloria Musukwa[5], Mutinta Hamahuwa[5], Webster Mufwambi[4], Japhet Matoba[5], Kenny Situtu[4], Irene Mutale[4], Edgar Simulundu[5], Phillimon Ndubani[5], Alvira Z. Hasan[1], Shaun A. Truelove[1], Amy K. Winter[6], Andrea C. Carcelen[1], Amy Wesolowski[1], Bryan Lau[1], William J. Moss[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Directorate of Public Health and Research, Ministry of Health, Lusaka, Zambia, [3]Zambia Statistics Agency, Lusaka, Zambia, [4]Tropical Diseases Research Centre, Ndola, Zambia, [5]Macha Research Trust, Macha, Zambia, [6]University of Georgia, Athens, GA, United States

9:15 a.m.

5012

THE EFFECT OF COMMUNITY-BASED PACKAGE OF INTERVENTIONS ON IMPROVING INSTITUTIONAL DELIVERY CARE SERVICES UTILIZATION IN ARBA MINCH HDSS, SOUTHERN ETHIOPIA: A CLUSTER-RANDOMIZED CONTROLLED TRIAL

Mekdes Kondale Gurara[1], Veerle Draulans[2], Jean-Pierre Van geertruyden[3], Yves Jacquemyn[4]
[1]Arba Minch University, Arba Minch, Ethiopia, [2]KU Leuven, Leuven, Belgium, [3]Antwerp University, Belgium, Belgium, [4]Antwerp University, Antwerp, Belgium

9:30 a.m.

5013

IMPACT OF A MOBILE OBSTETRIC REFERRAL EMERGENCY SYSTEM (MORES) ON REDUCING CARE DELAYS IN RURAL LIBERIA

Christopher Reynolds[1], Nancy Lockhart[1], Joseph Sieka[2], Clare Edson[1], Aloysius Nyanplu[3], Jody Lori[1]
[1]University of Michigan, Ann Arbor, MI, United States, [2]University of Liberia, Monrovia, Liberia, [3]Bong County Health Team, Gbanga, Liberia

Scientific Session 5

LIVE STREAMING

Malaria - Diagnosis: Challenges and Innovations

Grand Ballroom CDEF - Ballroom Level (East Tower)

Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Susanta K. Ghosh
ICMR Complex, National Institute of Malaria Research, Bangalore, India

Delenasaw Yewhalaw
Jimma University, Jimma, Ethiopia

8 a.m.

5014

DETECTING CIRCULATING MALARIA-INFECTED ERYTHROCYTES IN HUMANS WITHOUT A DROP OF BLOOD

Jillian N. Armstrong[1], Aayire C. Yadem[2], Mustafa Sarimollaoglu[3], Kiki Massa Civian[4], Jean Michel Ndifo Ngamba[5], Yulian A. Menyaev[3], Anastasie Mbe[5], Kacey Richards[1], Martina Wade[1], Yushun Zeng[6], Ruimin Chen[6], Qifa Zhou[6], Elvis Meten[5], Rodrigue Ntone[4], Yves Le Grand Napa Tchuedji[5], Safi Ullah[3], Ekaterina I. Galanzha[3], Lucrèce Eteki[4], Hortense Kamga Gonsu[5], Alex Biris[2], James Y. Suen[3], Yap Boum II[5], Vladimir P. Zharov[3], Sunil Parikh[1]
[1]Yale School of Public Health, New Haven, CT, United States, [2]University of Arkansas at Little Rock, Little Rock, AR, United States, [3]University of Arkansas for Medical Sciences, Little Rock, AR, United States, [4]Epicentre, Yaoundé, Cameroon, [5]University of Yaoundé I, Yaoundé, Cameroon, [6]University of Southern California, Los Angeles, CA, United States

8:15 a.m.

5015

DROPLET DIGITAL PCR AND SEQUENCING REVEALS CONCURRENT PFHRP2/3 GENE DELETIONS AND KELCH 13 MUTATIONS ACROSS ETHIOPIA

Jack Burke-Gaffney[1], Claire Kamaliddin[1], Aderaw Adamu[2], Shoaib Ashraf[1], Ayesha Wijesinghe[1], Enaara Pussegoda[3], Daniel Castaneda Mogollon[1], Sindew Mekasha Feleke[2], **Dylan R. Pillai**[1]
[1]University of Calgary, Calgary, AB, Canada, [2]Ethiopia Public Health Institute, Addis Ababa, Ethiopia, [3]University of Western Australia, Perth, Australia

8:30 a.m.

5016

MULTIPLEX MICROFLUIDIC CARTRIDGE 'MICROLAMP' FOR MALARIA DETECTION AND SPECIATION

Hitendra Kumar, Nabil Royez, Jack Burke-Gaffney, Keekyoung Kim, Dylan R. Pillai
University of Calgary, Calgary, AB, Canada

8:45 a.m.

5017

ACTIVE CASE DETECTION AND TREATMENT OF MALARIA IN PREGNANCY USING LAMP TECHNOLOGY (LAMPREG): A PRAGMATIC RANDOMIZED DIAGNOSTIC OUTCOMES TRIAL

Rediet Fikru[1], Claire Kamaliddin[2], Filmona Mekuria[1], Betelhem Solomon[1], Banchamlak Tegegne[3], Delenasaw Yewhalaw[4], Mekonnen Teferi[1], Abebe G. Bayih[5], **Dylan R. Pillai**[2], LAMPREG STUDY TEAM[2]
[1]Armauer Hansen Research Insitute, Addis Ababa, Ethiopia, [2]University of Calgary, Calgary, AB, Canada, [3]Amhara Public Health Institute, Bahir Dar, Ethiopia, [4]Jimma Univeristy, Jimma, Ethiopia, [5]Armauer Hansen Research Institute, Addis Ababa, Ethiopia

9 a.m.

5018

NEW THYMIDINE KINASE-INDEPENDENT CLICK CHEMISTRY DNADETECT™ PROBES FOR ASSESSMENT OF DNA PROLIFERATION IN MALARIA PARASITES

David H. Hilko, Gillian M. Fisher, **Katherine Andrews**, Sally-Ann Poulsen
Griffith University, Nathan, Australia

(ACMCIP Abstract)

9:15 a.m.

5019

USE OF MINIMALLY INVASIVE TISSUE SAMPLING (MITS) TO DETERMINE THE CONTRIBUTION OF MALARIA INFECTIONS TO MORTALITY IN CHILDREN UNDER 5 YEARS OF AGE IN THE CHAMPS NETWORK

Ikechukwu U. Ogbuanu[1], Kephas Otieno[2], Rosauro Varo[3], Zachary Madewell[4], Beth A. Tippett Barr[5], Inacio Mandomando[6], Dianna M. Blau[4], Cynthia G. Whitney[7], Aaron M. Samuels[4], **Quique Bassat**[3]
[1]Crown Agents in Sierra Leone, Freetown, Sierra Leone, [2]Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, [3]ISGlobal, Barcelona, Spain, [4]Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]Nyanja Health Research Institute, Salima, Malawi, [6]Centro de Investigaçao em Saude de Manhiça, Manhiça, Mozambique, [7]Emory Global Health Institute, Emory University, Atlanta, GA, United States

9:30 a.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

6791

PRECLINICAL PERFORMANCE AND USABILITY EVALUATION OF A NEW POINT-OF-CARE TEST FOR GLUCOSE-6-PRECLINICAL PERFORMANCE AND USABILITY EVALUATION OF A NEW POINT-OF-CARE TEST FOR GLUCOSE-6-PRECLINICAL PERFORMANCE AND USABILITY EVALUATION OF A NEW POINT-OF-CARE TEST FOR GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCYPHOSPHATE DEHYDROGENASE DEFICIENCYPHOSPHATE DEHYDROGENASE DEFICIENCY

Rebecca K. Green[1], Gornpan Gornsawun[2], Paw Khu Moo[2], Chanikan Thipwong[2], Stephanie Zobrist[1], Laypaw Archasukan[2], Huyen Nguyen[3], Huong Nguyen[3], Cindy S. Chu[4], Emily Gerth-Guyette[1], Podjanee Jittamala[5], Francois Nosten[4], Sampa Pal[1], Gonzalo J. Domingo[1], Germana Bancone[4]
[1]PATH, Diagnostics, Seattle, WA, United States, [2]Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Mae Sot, Thailand, [3]PATH,

Vietnam Country Program, Hanoi, Vietnam, [4]Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom, [5]Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Bangkok, Thailand

5361

DIAGNOSTIC PERFORMANCE OF NXTEK™ ELIMINATE MALARIA PF TEST FOR THE DETECTION OF *PLASMODIUM FALCIPARUM* IN SCHOOL CHILDREN WITH ASYMPTOMATIC MALARIA

Abdissa Biruksew Hordofa[1], Ashenafi Demeke[2], Prof. Zewdie Birhanu[1], Estifanos Kebede[1], Lemu Golassa[3], Evans M. Mathebula[4], Prof. Delenasaw Yewhalaw[1]
[1]Jimma University, Jimma, Ethiopia, [2]Minch Health Science College, Arba Minch, Ethiopia, [3]Aklilu Lemma Institute of Pathobiology, Addis Ababa University, Addis Ababa, Ethiopia, [4]University of Pretoria, South Africa, Ethiopia

6804

SPATIAL HETEROGENEITY OF THE DISTRIBUTION OF PFHRP2/3 GENE DELETION IN ETHIOPIA AND CURRENT ALTERNATIVES TO EXCLUSIVE HRP2-BASED RDTS

Lina Alemayehu Lulu[1], Migbaru Keffale[1], Melat Melat[1], Ayalew Jejaw[1], Mikiyas Gebremichael[1], Legesse Alamerie[1], Alayu Bogale[1], Fikregabrail Aberra Kassa[1], Cristian Koepfli[2], **Fitsum Girma Tadesse**[1]
[1]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [2]University of Notre Dame, Notre Dame, IN, United States

6084

A DIGITAL MICROSCOPE FOR THE DIAGNOSIS OF *PLASMODIUM FALCIPARUM* PARASITES WITH HRP2 AND HRP3 DELETION AND *PLASMODIUM VIVAX*

Yalemwork Ewnetu[1], Lise Carlier[2], Claudia A. Vera Arias[3], Jieun Shin[2], Chae Yun Bae[2], Hyun Cher Youm[2], Nega Berhane[1], Wossenseged Lemma[1], Soyeon Yi[2], **Cristian Koepfli**[3]
[1]Gondar University, Gondar, Ethiopia, [2]Noul Inc., Seoul, Republic of Korea, [3]University of Notre Dame, Notre Dame, IN, United States

5368

MALARIA PARASITEMIA ESTIMATES BASED ON HRP2 AND PLDH ANTIGEN CONCENTRATIONS FROM A LARGE HOUSEHOLD SURVEY IN NIGERIA: HOW MUCH DIFFERENCE DOES RDT PERFORMANCE MAKE?

Laura Steinhardt[1], Abiodun Ogunniyi[2], Nwando Mba[2], Ado Abubakar[3], Perpetua Uhomoibhi[4], McPaul Okoye[5], Nnaemeka Iriemenam[5], Michael Aidoo[1], Eric Rogier[1], Chikwe Ihekweazu[2]
[1]CDC, Atlanta, GA, United States, [2]Nigeria Centre for Disease Control, Abuja, Nigeria, [3]Institute for Human Virology, Nigeria, Abuja, Nigeria, [4]Ministry of Health, Abuja, Nigeria, [5]CDC, Abuja, Nigeria

Scientific Session 6

Kinetoplastida and Other Protozoa: Immunology, Invasion, Cellular and Molecular Biology

Grand Hall K - Ballroom Level (East Tower)

Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Camila I. de Oliveira
FIOCRUZ, Salvador, Brazil

Vyacheslav Yurchenko
University of Ostrava, Ostrava, Czech Republic

8 a.m.

5020

ALTERED IL-7/IL-7R SIGNALING IN CD4+ T CELLS FROM PATIENTS WITH ACTIVE VISCERAL LEISHMANIASIS

Shashi Kumar[1], Shashi Bhushan Chauhan[2], Shreya Upadhyay[1], Siddharth Sankar Singh[3], Rajiv Kumar[1], Christian Engwerda[4], Susanne Nylen[5], Shyam Sundar[1]
[1]Banaras Hindu University, Varanasi, India, [2]George Washington University, Washington, WA, United States, [3]University of Massachusetts Chan Medical School, Varanasi, MA, United States, [4]QIMR Berghofer Medical Research Institute, Brisbane, Australia, Brisbane, Australia, [5]Karolinska Institutet, Stockholm,, Sweden

8:15 a.m.

5021

DECONSTRUCTING TRANSMISSION OF VISCERAL LEISHMANIASIS THROUGH ANALYSIS OF BLOOD FED SAND FLIES

Patrick Allen Huffcutt[1], Khushbu Priyamvada[2], Pushkar Dubey[2], Joy Bindroo[2], Asgar Ali[2], Asahar Alam[2], Shalini Singh[2], Mohammad Shahnawaz[2], Debanjan Patra[2], Indranil Sukla[2], Avneesh Kumar[2], Gaurav Kumar[2], Pankaj Kumar[2], Shani Pandey[2], Claudio Meneses[1], Jesus G. Valenzuela[1], Sridhar Srikantiah[2], Caryn Bern[3], Tiago Donatelli Serafim[1], Eva Iniguez[1], Shaden Kamhawi[1]
[1]National Institutes of Health, Laboratory of Molecular Vector Research, Rockville, MD, United States, [2]CARE India Solutions for Sustainable Development, Patna, India, [3]University of California, San Francisco, CA, United States

(ACMCIP Abstract)

8:30 a.m.

5022

NEUTROPHILS IN PATHOGENESIS OF POST KALA-AZAR DERMAL LEISHMANIASIS (PKDL), FRIEND OR FOE?

Madhurima Roy
Institute of Post Graduate Medical Education & Research, Kolkata, India

(ACMCIP Abstract)

8:45 a.m.

5023

ALTERED PROFILE OF CD4+T CELLS CHEMOKINE RECEPTOR EXPRESSION DURING VISCERAL LEISHMANIASIS

Shreya Upadhyay[1], Shashi Kumar[1], Shashi Bhushan Chauhan[2], Siddharth Sankar Singh[3], Susanne Nylen[4], Christian Engwerda[5], Rajiv Kumar[1], Madhukar Rai[1], Shyam Sundar[1]
[1]Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, [2]George Washington University, Washington, WA, United States, [3]University of Massachusetts Medical School, Worcester, MA, United States, [4]Karolinska Institutet, Stockholm, Sweden, [5]QIMR Berghofer Medical Research Institute, Brisbane, Australia

(ACMCIP Abstract)

9 a.m.

5024

A POTENTIAL ROLE FOR ADIPOCYTES IN VISCERAL LEISHMANIASIS

Patrick Kwadwo Nuro-Gyina, Bayan Zhanbolat, Yani Chen, Carter R. Dwyer, Jacilara Alexandrino-Conceicao, Aloysius Klingelhutz, Mary Wilson
University of Iowa, Iowa City, IA, United States

(ACMCIP Abstract)

9:15 a.m. 5025

IMMUNE MODULATION INDUCED BY LEISHMANIA EUKARYOTIC INITIATION FACTOR BEFORE LEISHMANIA INFANTUM INFECTION OF THP1 DERIVED MACROPHAGES

Imen Bassoumi Jamoussi, Yosser Zina Abdelkrim, Ons Zakraoui, Rafeh Oualha, Mourad Barhoumi, Khadija Essafi Benkhadir, Ikram Guizani
INSTITUT PASTEUR DE TUNIS, Tunis, Tunisia

(ACMCIP Abstract)

9:30 a.m. 5026

CATALASE IS DETRIMENTAL FOR LEISHMANIA VIRULENCE (WITH NOTES ON EVOLUTION OF CATALASES IN TRYPANOSOMATIDAE)

Vyacheslav Yurchenko[1], Ľubomíra Chmelová[1], Natalia Kraeva[1], Petr Volf[2], Jovana Sádlová[2]
[1]University of Ostrava, Ostrava, Czech Republic, [2]Charles University, Prague, Czech Republic

Symposium 7

Reaching Indigenous Populations with NTDs Interventions

Grand Hall L - Ballroom Level (East Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Preventive chemotherapy (PC) through mass drug administration (MDA) is one of the main interventions endorsed by WHO to eliminate several neglected tropical diseases (NTDs). Many countries have adopted this strategy and made significant progress: 47 countries have declared elimination of at least one NTD by 2022, and several other countries are well on their way to stopping MDA. However, it is well known that the proverbial 'last mile' is usually the hardest. To reach NTD elimination goals and to ensure equity, Health Ministries must be able to identify and address the barriers to reaching marginalized populations with MDA, including indigenous communities. Many indigenous populations face a variety of socio-economic barriers, which powerfully shape their access to and acceptance of MDA, with the potential for continued risk of disease. Geographic remoteness, language differences, mobile pastoralism, and distinct social and political identities can result in less contact with or resistance to health services. It is therefore incumbent on health service providers to overcome these barriers, to identify knowledge and skill gaps, and to learn from successes reaching indigenous populations from around the world. This symposium will explore this issue using four case studies that present an analysis of NTD treatment delivery to four different indigenous populations. Each case study will present the related disease epidemiology and social determinants of health, the barriers to access they face, and efforts that have been made to re-design MDA approaches. The case studies will be preceded with an introduction that frames the issues within the scientific literature. The first two cases will look at delivering Trachoma MDA to nomadic Pastoralist populations in East Africa and how barriers to participation were addressed using participatory approaches and supported gaining entry to the communities and empowering communities. The third case focuses on the implementation of Onchocerciasis MDA in Yanomami communities. The fourth case will focus on how trust was built back in "custom villages" in Vanuatu to enable MDA for Yaws following the COVID-19 pandemic. The key theme that runs strongly across these case studies is the need for locally developed and locally led solutions that facilitate strong community engagement. These case highlight how the expertise and leadership of the indigenous communities themselves was used to design effective NTD interventions.

CHAIR
Upendo J. Mwingira
RTI International, Washington, DC, United States

Margaret Baker
Georgetown University, Washington, DC, United States

8 a.m.
INTRODUCTION

8:10 a.m.
ADDRESSING BARRIERS OF COMMUNITY PARTICIPATION AND ACCESS TO MDA FOR TRACHOMA USING PARTICIPATORY APPROACHES IN A PASTORAL CONFLICT AREA OF KENYA
Doris Njomo
KEMRI, Nairobi, Kenya

8:30 a.m.
HOW TO GAIN ENTRY TO AND EMPOWER COMMUNITIES TO DELIVER MDA FOR NTDS: A CASE STUDY OF THE MAASAI POPULATION IN TANZANIA
Stella Kasindi Mwita
WiHeR, Dar es salaam, United Republic of Tanzania

8:45 a.m.
BUILDING BACK TRUST FOR YAWS MDA AFTER COVID IN "CUSTOM VILLAGES" IN VANUATU, SOUTH PACIFIC
Fasiha Taleo
WHO, Vanuatu, Vanuatu

9 a.m.
OVERVIEW OF THE LITERATURE IN DELIVERING CAMPAIGNS TO MINORITY POPULATIONS
Margaret Baker
Georgetown University, Washington, DC, United States

9:20 a.m.
IMPLEMENTATION OF ONCHOCERCIASIS MDA IN YANOMAMI COMMUNITIES IN VENEZUELA
Oscar Noya
SACAICET, Venezuela, Bolivarian Republic of Venezuela

Symposium 8

Strategies for Prevention and Control of Typhoid and Cholera Outbreaks

Plaza Ballroom - Lobby Level (East Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Enteric diseases, including typhoid and cholera, threaten life and well-being in already marginalized communities. Typhoid, caused by Salmonella Typhi, and cholera, caused by Vibrio cholerae, disproportionately impact poor communities with inadequate sanitation and populations made vulnerable by displacement

and migration. Both diseases are spread through ingestion of unclean water or contaminated food and are endemic in several countries. Typhoid affects up to 20 million people annually, claiming 8 million years of healthy life each year. Cholera infects more than two million people per year, threatens an estimated 1.3 billion people living in risk zones, and is prone to explosive outbreaks that can cause high mortality. Though improved water and sanitation infrastructure remain the most robust long-term prevention strategies for enteric infections, targeted vaccination may serve as a bridge intervention to interrupt transmission in acute outbreak scenarios. Indeed, the global cholera vaccine stockpile was established for this reason. The number and frequency of outbreaks has stretched the stockpile to its limit, leading to vaccine use prioritization decisions and rationing. While typhoid conjugate vaccines (TCV) are being added to the routine immunization schedule in many countries, there is no clear guidance on how to deploy TCV most effectively in an outbreak setting. Gavi, the Vaccine Alliance, has negotiated mechanisms with vaccine manufacturers to supply 500,000 doses of TCV in the event of a typhoid outbreak. However, this supply promise has not been matched with clear guidance from SAGE regarding how those vaccines should be used in emergency circumstances. In a 2019 outbreak in Harare, Zimbabwe, anecdotal evidence indicates that delays in the availability of TCVs likely contributed to unnecessary additional mortality and morbidity. To ensure timely, appropriate response, outbreaks must be identified and characterized with accurate diagnostics. Current typhoid diagnostics require a laboratory setting; field use of these tools is not yet possible. Without accurate, rapid diagnostics, outbreaks remain undetected and infect many more. Consensus is developing that outbreak prevention and rapid termination require development and utilization of quality rapid diagnostic tests (RDTs), validation of their use for identification and characterization of outbreaks, modeling of scenarios to inform when and how vaccine should be used in outbreak response, and development of clear guidance for decision-makers facing outbreaks. This symposium brings together researchers from the typhoid and cholera fields to present the latest progress toward meeting these goals and addressing the key challenges that remain.

CHAIR

Denise Garrett
Sabin Vaccine Institute, Washington, DC, United States

Lucy Breakwell
Centers for Disease Control, Atlanta, Georgia

8 a.m.
INTRODUCTION

8:10 a.m.
TYPHOID AND CHOLERA DIAGNOSTIC TOOLS CURRENTLY AVAILABLE AND IN DEVELOPMENT

Richelle Charles
Massachusetts General Hospital, Boston, MA, United States

8:25 a.m.
PAKISTAN FLOOD RESPONSE 2022 AND DISEASE SURVEILLANCE

Adil Haider
Aga Khan University, Medical College, Karachi, Pakistan

8:40 a.m.
VACCINE INTRODUCTION IN OUTBREAK SETTINGS

Phiona Atuhebwe
UNICEF, Nairobi, Kenya

8:55 a.m.
CHALLENGES IN DETECTING AND RESPONDING TO TYPHOID OUTBREAKS

Daniela Garone
Médecins Sans Frontières, Brussles, Belgium

9:10 a.m.
EFFECTIVE USE OF ORAL CHOLERA VACCINE IN OUTBREAK SETTINGS

Elizabeth Lee
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

9:25 a.m.
MODERATOR, PANEL DISCUSSION

Denise Garrett
Sabin Vaccine Institute, Washington, DC, United States

Scientific Session 9

Clinical Tropical Medicine: Pediatrics

Crystal Ballroom A - Lobby Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Melinda Tanabe
UTMB, Galveston, TX, United States

Martin Grobusch
Academic Medical Center, Amsterdam, Netherlands

8 a.m. **5027**

GEOSPATIAL ANALYSIS OF THE DISTRIBUTION OF H. NANA INFECTION AMONG CHILDREN'S HOUSEHOLDS AND SCHOOLS OF THE PROVINCE OF ANTA, PERU

Melinda B. Tanabe[1], Maria Alejandra Caravedo Martinez[1], Maria Luisa Morales[2], Martha Lopez[2], Benicia Baca-Turpo[2], Eulogia Arque Sollace[2], Miguel M. Cabada[3]
[1]University of Texas Medical Branch, Galveston, TX, United States, [2]Alexander von Humboldt Tropical Medicine Institute, UPCH, Cusco, Peru, [3]UPCH – UTMB Collaborative Research Center - Cusco, Universidad Peruana Cayetano, Cusco, Peru

8:15 a.m. **5028**

ACUTE KIDNEY INJURY IN CHILDREN WITH SICKLE CELL ANEMIA IS LINKED TO TUBULOINTERSTITIAL INJURY AND MICROCIRCULATORY DYSFUNCTION

Rodney Ogwang[1], Ivan Mufumba[1], Caroline Kazinga[1], Anthony Batte[2], Andrea Conroy[3]
[1]Global Health Uganda, Kampala, Uganda, [2]Makerere University, Kampala, Uganda, [3]University of Indiana, Indiana, IN, United States

8:30 a.m. 5029

TEMPORAL TRENDS OF BLOOD GLUCOSE IN CHILDREN WITH CEREBRAL MALARIA

Kennedy M. Chastang[1], Rami Imam[2], Meredith G. Sherman[3], Ronke Olowojesiku[4], Amina M. Mukadam[5], Karl B. Seydel[6], Alice M. Liomba[7], John R. Barber[8], Douglas G. Postels[9]
[1]Howard University, Washington, DC, United States, [2]The George Washington University School of Medicine, Washington, DC, United States, [3]Global Health Initiative, Children's National Medical Center, Washington, DC, United States, [4]Department of Pediatrics, Children's National Medical Center, Washington, DC, United States, [5]University of Washington, Seattle, WA, United States, [6]Michigan State University, East Lansing, MI, United States, [7]Blantyre Malaria Project, Blantyre, Malawi, [8]Division of Biostatistics and Study Methodology, Children's National Research Institute, Washington, DC, United States, [9]Division of Neurology, Children's National Medical Center, Washington, DC, United States

8:45 a.m. 5030

NEUROLOGICAL SYMPTOMS IN SICK CHILDREN PRECEDING DEATH AND CORRELATION WITH POSTMORTEM DIAGNOSIS: RESULTS FROM CHAMPS MORTALITY SURVEILLANCE NETWORK

Sara Ajanovic Andelic[1], Elisio Xerinda[2], Rosauro Varo[1], Zachary Madewell[3], Muntasir Alam[4], Nega Assefa[5], Shams El Arifeen[4], Lola Madrid[6], Aggrey Igunza[7], Aaron Samuels[8], Adama Keita[9], Amara Jambai[10], Solomon Samura[11], Sana Mahtab[12], Portia Mutevedzi[12], Beth A. Tippet Barr[13], Dianna Blau[14], Cynthia Whitney[15], Quique Bassat[1]
[1]Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, [2]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, [3]Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]International Center for Diarrhoeal Diseases Research (icddr,b), Dhaka, Bangladesh, [5]College of Health Medical Sciences, Haramaya University, Harar, Ethiopia, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, [8]Center for Global Health, Centers for Disease Control and Prevention,, Kisumu, Kenya, [9]Centre pour le Développement des Vaccines (CVD-Mali), Bamako, Mali, [10]Ministry of Health and Sanitation, Freetown, Sierra Leone, [11]World Hope International, Makeni, Sierra Leone, [12]Wits Health Consortium, University of Witwatersrand, Johannesburg, South Africa, [13]Center for Global Health, Centers for Disease Control and Prevention, Kisumu, Kenya, [14]Center for Global Health, Centers for Disease Control and Prevention,, Atlanta, GA, United States, [15]Emory Global Health Institute, Emory University, Atlanta, GA, United States

9 a.m. 5031

SOLUBLE TRIGGERING RECEPTOR EXPRESSED ON MYELOID CELLS 1 (STREM-1) TO RISK-STRATIFY CHILDREN PRESENTING WITH FEBRILE ILLNESS IN SOUTHERN MOZAMBIQUE

Núria Balanza[1], Bàrbara Baro[1], Sara Ajanovic[1], Andrea M. Weckman[2], Marta Valente[1], Justina Bramugy[3], Anelsio Cossa[3], Kathleen Zhong[2], Elizabeth JA Fitchett[4], Shunmay Yeung[4], Tegwen Marlais[4], Heidi Hopkins[4], David Mabey[4], Kevin C. Kain[2], Quique Bassat[1]
[1]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [2]Sandra-Rotman Centre for Global Health, Toronto General Research Institute, University Health Network-Toronto General Hospital, Toronto, ON, Canada, [3]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom

9:15 a.m. 5032

EFFECT OF POINT-OF-CARE RAPID DIAGNOSTIC TESTS ON ANTIBIOTIC PRESCRIPTION IN PRIMARY HEALTH CARE SETTINGS IN TWO PERI-URBAN DISTRICTS IN GHANA

Alexander Adjei[1], Vida A. Kukula[1], Clement Narh[2], Piero Olliaro[3], Rita Baiden[1]
[1]dodowa health research centre, Accra, Ghana, [2]Fred N. Binka School of Public Health. University of Health and Allied Sciences, Ho, Ghana, [3]FIND, the global alliance for diagnostics, Geneva, Switzerland

9:30 a.m. 5033

ASSESSING THE PORTABILITY OF A PEDIATRIC TELEMEDICINE AND MEDICATION DELIVERY SERVICE TO THE GHANAIAN SETTING: A PILOT STUDY

Katelyn E. Flaherty[1], Molly Klarman[1], Nana Anyimadua Anane-Binfoh[2], Mohammed-Najeeb Mahama[3], Maxwell Osei-Ampofo[4], Taiba Afaa Jibril[5], Ahmed N. Zakariah[3], Eric J. Nelson[1], Torben K. Becker[1]
[1]University of Florida, Gainesville, FL, United States, [2]Korle Bu Teaching Hospital, Accra, Ghana, [3]National Ambulance Service, Accra, Ghana, [4]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [5]University of Ghana, Accra, Ghana

Symposium 10

A Changing World - Practice in Travel Medicine

Crystal Ballroom B - Lobby Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The world is rapidly evolving. Changing travel and migration patterns are progressively confronted due to socio-economic advances, emerging infections in a changing ecosystem causing pandemics such as COVID-19, travelers are high risk because of their itinerary microbes that accrued during the journey and awaiting at a destination, eventually the digital revolution and telemedicine that has improved our lives and accelerated by COVID-19 pandemic. So how will our daily practice in travel medicine be affected? How can we practice travel medicine and meet the increasing demand for travel medicine services in this changing world? Each talk will cover different aspects in travel medicine. Dr. Paul Hunsajarupan will share his recent research finding of the trend in practicing travel medicine. Rebecca Acosta will share her experience working in running travel medicine during the pandemic and what lessons learned from that and how it can improve our practice in travel medicine. Followed by Dr. David Freedman, who will give a talk on the recent epidemiologic shifts and optimizing pre-travel preparation through the pandemic, discussing the up to date guidelines in COVID-19 prophylactic medication and vaccination. Lastly, we will also hear from Dr. Camille Kotton in the latest and up-to-date travel medicine practice in consulting special risk travelers by presenting challenging travel scenarios.

CHAIR
Shaymaa Abdalal
King Abdul-Aziz University, Jeddah, Saudi Arabia

David Freedman
University of Alabama at Birmingham, Birmingham, AL, United States

8 a.m.
INTRODUCTION

8:10 a.m.
LANDSCAPE OF TRAVEL MEDICINE PRACTICE
Bhanasut Hunsajarupan
Institute of Preventive Medicine, Department of Disease Control, Ministry of Public Health Thailand, Nonthaburi, Thailand

8:30 a.m.
STARTING A TRAVEL CLINIC: OPERATIONAL NEEDS
Rebecca Wolfe Acosta
Traveler's Medical Service, New York, NY, United States

8:50 a.m.

IMMUNOCOMPROMISED TRAVELERS: CHALLENGING TRAVEL SCENARIOS

Camille Kotton
Massachusetts General Hospital, Boston, MA, United States

9:10 a.m.

RECENT EPIDEMIOLOGIC SHIFTS: ADVISING TRAVELERS

David Freedman
University of Alabama at Birmingham, Birmingham, AL, United States

Scientific Session 11

Viruses - Field Studies of Viruses

Regency Ballroom A - Ballroom Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Rebekah Kading
Colorado State University, Fort Collins, CO, United States

Ariful Islam
EcoHealth Alliance, New York, NY, United States

8 a.m. 5034

SEROLOGIC EVIDENCE OF MARBURG VIRUSES AND A BUNDIBUGYO VIRUS-LIKE EBOLAVIRUS IN MADAGASCAN ROUSETTE BATS

Marana Tso[1], Spencer Sterling[1], Hafaliana Christian Ranaivoson[2], Gwenddolen Kettenburg[2], Angelo Andrianiaina[3], Santino Andry[3], Jean-Michel Héraud[4], Eric D. Laing[1], Cara E. Brook[2]
[1]Uniformed Services University of Health Sciences, Bethesda, MD, United States, [2]University of Chicago, Chicago, IL, United States, [3]University of Antananarivo, Antananarivo, Madagascar, [4]Institut Pasteur de Dakar, Dakar, Senegal

8:15 a.m. 5035

EXPOSURE OF EGYPTIAN ROUSETTE BATS (ROUSETTUS AEGYPTIACUS) AND A LITTLE FREE-TAILED BAT (CHAEREPHON PUMILUS) TO ALPHAVIRUSES IN UGANDA

Rebekah Kading[1], Erin Borland[2], Eric C. Mossel[2], Teddy Nakayiki[3], Betty Nalikka[4], Jeremy P. Ledermann[2], Mary B. Crabtree[2], Nicholas A. Panella[2], Luke Nyakarahuka[3], Amy T. Gilbert[5], Julian Kerbis Peterhans[6], Jonathan S. Towner[7], Brian R. Amman[7], Tara K. Sealy[7], Barry R. Miller[2], Julius J. Lutwama[3], Robert M. Kityo[4], Ann M. Powers[2]
[1]Colorado State University, Fort Collins, CO, United States, [2]Centers for Disease Control and Prevention, Division of Vector-borne Diseases, Fort Collins, CO, United States, [3]Department of Arbovirology, Emerging, and Re-emerging Infections, Uganda Virus Research Institute, Entebbe, Uganda, [4]Department of Zoology, Entomology, and Fisheries Science, Makerere University, Kampala, Uganda, [5]Poxvirus and Rabies Branch, Division of High-Consequence Pathogens, United States Centers for Disease Control and Prevention, Atlanta, GA, United States, [6]Negaunee Integrative Research Center, Field Museum of Natural History, College of Arts & Sciences, Roosevelt University, Chicago, IL, United States, [7]Viral Special Pathogens Branch, Division of High-Consequence Pathogens, United States Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m. 5036

SPATIAL VARIATION IN NIPAH VIRUS SEROPREVALENCE AMONG PTEROPUS MEDIUS BATS IN BANGLADESH

Ausraful Islam[1], Spencer Sterling[2], Clifton McKee[3], Mohammad Enayet Hossain[1], Mohammed Ziaur Rahman[1], Md. Jahidul Kabir[4], Eric D. Laing[2], Peter Hudson[5], Raina Plowright[6], Emily S. Gurley[3]
[1]icddr,b, Dhaka, Bangladesh, [2]Uniformed Services University of the Health Sciences, Maryland, MD, United States, [3]Johns Hopkins University, Maryland, MD, United States, [4]Bangladesh Forest Department, Dhaka, Bangladesh, [5]The Pennsylvania State University, Pennsylvania, PA, United States, [6]Cornell University, New York, NY, United States

8:45 a.m. 5037

CENCURUT VIRUS: A NOVEL ORTHONAIROVIRUS FROM ASIAN HOUSE SHREWS (SUNCUS MURINUS) IN SINGAPORE

Dolyce Hong Wen Low[1], Lena Ch'ng[1], Yvonne Su[1], Martin Linster[1], Rong Zhang[1], Yan Zhuang[1], Mackenzie Kwak[2], Sophie Borthwick[1], Alan Hitch[3], Gavin Smith[1], Ian Mendenhall[1]
[1]Duke-NUS Medical School, Singapore, Singapore, [2]Hokkaido University, Sapporo, Japan, [3]University of California, Davis, CA, United States

9 a.m. 5038

EPIDEMIOLOGY AND GENETIC DIVERSITY OF NOVEL PARAMYXOVIRUSES RELATED TO LANGYA VIRUS IN RODENTS AND SHREWS IN BANGLADESH

Ariful Islam[1], Md Ziaur Rahman[2], Shariful Islam[3], Melinda K Rostal[1], Mohammad Enayet Hossain[4], Md Kaisar Rahman[3], Emily Hagan[1], Monjurul Islam[3], Tahmina Shirin[3], Meerjady Sabrina Flora[3], Simon J Anthony[5], Peter Daszak[1], Jonathan H Epstein[1]
[1]EcoHealth Alliance, New York, NY, United States, [2]One Health laboratory, International center for diarrheal disease research (icddr,b), Dhaka, Bangladesh, [3]Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh, [4]One Health laboratory,International center for diarrheal disease research (icddr,b), Dhaka, Bangladesh, [5]Department of Pathology, Microbiology, and Immunology, University of California-Davis School of Veterinary, California, CA, United States

9:15 a.m. 5039

INVESTIGATION OF RIFT VALLEY FEVER OUTBREAK ASSOCIATED WITH 'ABORTION STORMS' IN MBARARA DISTRICT, UGANDA 2023

Luke Nyakarahuka[1], Jackson Kyondo[1], Jimmy Baluku[1], Alex Tumusiime[1], Sophia Mulei[1], Shannon Whitmer[2], Joel Montgomery[2], Julius J. Lutwama[1], Stephen K. Balinandi[1], John D. Klena[2], Trevor R. Shoemaker[2]
[1]Uganda Virus Research Institute, Kampala, Uganda, [2]United States Centers for Disease Control and Prevention, Atlanta, GA, United States

9:30 a.m. 5040

GENETIC DIVERSITY AND AMINO ACIDS VARIATIONS AT VACCINE TARGET SITES IN RABIES VIRUSES COLLECTED FROM DIFFERENT HOST SPECIES IN MAKUENI AND SIAYA COUNTIES, KENYA

Evalyne N. Wambugu[1], Kimita Gathii[2], Sarah Kituyi[3], Michael Washington[4], Clement Masakhwe[2], Lucy Mutunga[5], Gurdeep Jaswant[5], Thumbi Mwangi[5], Brian Schaefer[4], John Waitumbi[2]
[1]Walter Reed Project-Kenya, Kisumu, Kenya, [2]Walter Reed Project, Kisumu, Kenya, [3]Fogarty international center of the National institutes of health, Bethesda, MD, United States, [4]Uniformed Services University, Bethesda, MD, United States, [5]Institute of Tropical and Infectious Diseases, University of Nairobi, Kenya., Nairobi, Kenya

Symposium 12

Spillover: Assessing the Risk and Preparing for Disease X

Regency Ballroom B - Ballroom Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Emerging and re-emerging infectious diseases continue to pose significant threats to animal and human health. The preponderance of evidence suggests that most recent emerging infectious diseases events have wildlife origins, underscoring the importance of understanding transmission dynamics between animals and people and emphasizing the need for better characterization of the risk of spillover events from various classifications of pathogens. Zoonotic viruses remain a particular concern, as they are more frequently being identified as emerging human pathogens of significant concern. Once spillover from animals to humans has occurred, human-to-human transmission can facilitate sustained disease propagation given the right pathogen, environment, and host factors. Identifying common traits among zoonotic viruses and their associated potential for onward transmission is, therefore, an important step towards ultimately developing surveillance systems to rapidly identify emerging infectious diseases and the mitigation measures that will be essential to control them. Substantial efforts to characterize pathogen, host, and environmental factors have highlighted the role of high-risk interfaces as well as viral host plasticity as contributing factors to spillover events and disease transmission. Adopting a robust One Health approach to surveillance and forecasting of priority pathogens and their spillover potential will be critical to improving early warning systems of emerging health threats and for countermeasure development, including the optimization of vaccine pipelines. This symposium aims to provide an overview of spillover events and to explore global trends related to emerging infectious diseases from a One Health perspective. Factors associated with One Health reporting of outbreaks and global disease surveillance and forecasting will be discussed. Finally, programs that seek to identify priority zoonoses, potential spillover events, and their epidemic or pandemic potential will be presented in an attempt to explore optimal strategies for countermeasure development.

CHAIR

Angel N. Desai
University of California Davis Medical Center, Sacramento, CA, United States

Maïna L'Azou Jackson
Coalition for Epidemic Preparedness Innovations, London, United Kingdom

8 a.m.
INTRODUCTION

8:10 a.m.
ASSESSING SPILLOVER RISK

Jonna K. Mazet
University of California Davis, Davis, CA, United States

8:25 a.m.
ACCELERATING PACE OF EMERGING INFECTIOUS DISEASES

Angel N. Desai
University of California Davis Medical Center, Sacramento, CA, United States

8:40 a.m.
TRACKING ONE HEALTH TIMELINESS METRICS TO OPTIMIZE OUTBREAK RESPONSE

Jane Fieldhouse
University of California, San Francisco, San Francisco, CA, United States

8:55 a.m.
ONE HEALTH SURVEILLANCE FOR DISEASE X -- LESSONS LEARNED IN SIERRA LEONE

James Bangura
University of Makeni, Freetown, Sierra Leone

9:10 a.m.
CEPI DISEASE X VACCINE LIBRARY DEVELOPMENT

Maïna L'Azou Jackson
Coalition for Epidemic Preparedness Innovations, London, United Kingdom

Symposium 13

Spotted Fever Rickettsiosis: A Globally Neglected Cause of Acute Febrile Illness Hospitalizations

Regency Ballroom C - Ballroom Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

With increasing international travel and new or expanding distribution of tick species, the emergence of introduced and domestic tick-borne diseases is an urgent worldwide threat. Rickettsial infections are clinically indistinguishable from other causes of febrile illness and diagnostics for detection of acute disease are unavailable. Diagnostic delays translate into prolonged hospital stays, increased mortality, and epidemiology largely depends on findings from cohort studies and retrospective diagnoses of febrile returned travelers. While scrub typhus has commanded considerable attention in recent years, ongoing studies document the increasing prevalence and incidence of spotted fever group rickettsioses (SFGR) in AFI studies in more than 5-50% of cases across Africa, Asia, and South America. Unfortunately, little attention is paid to these neglected infections because of the difficulty in establishing diagnoses in real time, which in turn reflects the lack of mature technological advances in diagnostics seen for other infectious diseases. While most studies still rely on serologic investigations using 50 year-old methods, or PCR approaches that are insensitive because of low-burden bacteremia, there is a real need to move forward diagnostics that can be used at the time of acute illness such that specific anti-rickettsial therapies, such as doxycycline, can be used in a timely manner. This symposium will provide the background for SFGR epidemiology and knowledge gaps in studies of SFGR in order to provide highlights of some advances in diagnostic approaches that will facilitate early sensitive detection, including advanced PCR methods that target abundant SFGR RNAs and that detect circulating antigen during the acute illness, including point-of-care lateral flow devices.

CHAIR

John S. Dumler
Uniformed Services University, Bethesda, MD, United States

Paul W. Blair
Henry M Jackson Foundation, Bethesda, MD, United States

8 a.m.
INTRODUCTION

8:10 a.m.
EPIDEMIOLOGY OF SFGR

David H. Walker
University of Texas Medical Branch at Galveston, Galveston, TX, United States

8:30 a.m.
SPOTTED FEVER IN SOUTHERN INDIA: AN EMERGING DISEASE PROBLEM

John J. Prakash
Christian Medical College, Vellore (South India), India

8:50 a.m.
RICKETTSIOSES AS MAJOR ETIOLOGIES OF UNRECOGNIZED ACUTE FEBRILE ILLNESS: MALAYSIA AND NICARAGUA

Megan E. Reller
Duke University School of Medicine, Durham, NC, United States

9:10 a.m.
RNA PCR: TARGETING HIGHLY EXPRESSED, PROTEIN STABILIZED RNAS TO MAXIMIZE DIAGNOSTIC SENSITIVITY

Paul W. Blair
Uniformed Services University, Bethesda, MD, United States

9:30 a.m.
SFGR ANTIGENEMIA DETECTED BY ELISA AND LATERAL FLOW CHROMATOGRAPHIC DEVICES

Rong Fang
University of Texas Medical Branch, Galveston, TX, United States

Symposium 13A

Locally Acquired Mosquito-Transmitted Malaria in the United States: May-August, 2023

Regency Ballroom D - Ballroom Level (West Tower)
Thursday, October 19, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Malaria was eliminated as a public health problem in the United States in the mid-1950s and the US was certified malaria-free by WHO in 1970. Sporadic small outbreaks of malaria were documented in the 1980s and 1990s, with the last cases of locally acquired mosquito transmitted malar-ia in Palm Beach County, Florida in 2003. Despite the absence of locally acquired malaria cases in the US over the past two decades, imported malaria cases have increased nearly every year among recently arrived immigrants, leisure and business travelers, and persons traveling to visit friends and relatives in malaria endemic countries. Currently, approximately 2000 imported malaria cases are routinely diagnosed and treated in the US annually. These imported cases, together with com-petent Anopheles vectors distributed across most US states, creates potential for malaria parasite transmission to US residents who never travel abroad. Between May and July 2023, eight cases of P. vivax malaria were diagnosed among persons in Flori-da and Texas. In early August 2023, one case of P. falciparum malaria was diagnosed in a Maryland resident. None of the cases reported travel to a malaria endemic country and all were determined to be the result of locally acquired mosquito transmission. We will present an overview of the clin-ical, epidemiological, entomological, and molecular investigations that supported the public health response to this outbreak. Interventions to interrupt malaria transmission in the affected commu-nities will be described. We will explore potential explanations for a return of domestic malaria transmission after two decades.

CHAIR

Peter D. McElroy
CDC, Atlanta, GA, United States

8 a.m.
INTRODUCTION

Peter D. McElroy
CDC, Atlanta, GA, United States

8:10 a.m.
THE START OF A BUSY SUMMER: CHARACTERISTICS OF LOCALLY ACQUIRED MALARIA CASES IN THE US

Alison Ridpath
Malaria Branch, Division of Parasitic Diseases and Malaria, CDC, Atlanta, GA, United States

8:20 a.m.
PUBLIC HEALTH SURVEILLANCE AND RESPONSE TO LOCALLY ACQUIRED PLASMODIUM VIVAX IN FLORIDA

Andrea Morrison
Florida Department of Health, Tallahassee, FL, United States

8:30 a.m.
STRATEGIES FOR ANOPHELES SURVEILLANCE AND LABORATORY ANALYSES TO GUIDE DOMESTIC OUTBREAK RESPONSE

Audrey Lenhart
Entomology Branch, CDC, Atlanta, GA, United States

8:40 a.m.
MALARIA DIAGNOSTICS AND PARASITE GENOTYPING APPROACHES TO INFORM A DOMESTIC MALARIA OUTBREAK

Brian Raphael
Centers for Disease Control and Prevention, Atlanta, GA, United States

8:50 a.m.
MODERATED DISCUSSION/QUESTION AND ANSWER

Peter D. McElroy
CDC, Atlanta, GA, United States

9:10 a.m.
WRAP-UP AND SUMMARY

Peter D. McElroy
CDC, Atlanta, GA, United States

Career Chats: Networking Strategies for Trainees (via Zoom)

Thursday, October 19, 9:15 a.m. - 10:15 a.m. U.S. Central Time Zone

This session is limited to attendees who pre-registered for this event.

Networking—a crucial academic research skill for career advancement— can be challenging, par-ticularly for early career researchers and trainees. Building relationship with established scien-tists, colleagues from a point of common interest - your career, work and ambitions. We will ex-plore strategies for networking based around your current position, and your future plans.

PANELISTS

Bartholomew Ondigo, Research Fellow. Lecturer
Egerton University, Nakuru, Kenya

Sapna P. Sadarangani, Senior Consultant
National Centre for Infectious Diseases, Singapore, Singapore

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Thursday, October 19, 9:30 a.m. - 10:30 a.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower)
Thursday, October 19, 9:45 a.m. - 10:15 a.m. U.S. Central Time Zone

Poster Session A Set-Up

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Thursday, October 19, 9:45 a.m. - 10:15 a.m.

Poster Session A Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon

Symposium 14

Reaching Conflict Affected Areas for Neglected Tropical Diseases, Malaria, and Polio - Barriers to Elimination

Grand Ballroom A - Ballroom Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Conflict-affected and fragile states are a barrier to disease elimination efforts. For neglected tropical diseases (NTDs), many countries continue to make impressive progress towards their ambitious neglected tropical disease elimination goals and freeing their populations of infection. This progress is seen in the number of districts successfully able to stop treatment, particularly for trachoma, lymphatic filariasis, and onchocerciasis. However, those areas that remain endemic above treatment threshold represent a significant barrier to country-wide elimination and achieving the WHO's 2030 NTD goals. Lessons from long-standing polio and malaria programs illustrate how such areas pose the greatest operational, logistical, and epidemiological challenges. Conflict affected and fragile states are a key challenge and as the total number of districts requiring treatment declines, the proportion that remain in conflict-affected and fragile states increases. The world is experiencing a 30-year high in violent conflict. Recent reports have found a disconcerting increase in the total number of fragile contexts worldwide, with 1.9 billion people—24% of the world's population and 73% of the world's extreme poor—living in environments of chronic instability, conflict or violence. Working in conflict affected and fragile areas requires innovative thinking and changing our approaches to be able to repeatedly access at-risk populations multiple times at high treatment coverage and integrate conflict prevention and peacebuilding elements. In this session we will provide an overview of conflict and fragility and the challenges of working to reduce and eliminate diseases and the lessons from polio, and malaria (in Ethiopia) and how they can be used to inform NTD programs. We will present the experience of countries working in such areas against the NTDs lymphatic filariasis (Haiti) and trachoma (Mozambique). This session will build on ASTMH sessions in 2016 (Terrorism, Conflict, Epidemics, and Acts of God: The impact of the unpredictable on NTD programs) and 2019 (Challenges of Implementing NTD Assessments in Conflict Areas and Fragile States). Here we significantly broaden the scope to identify lessons across NTDs, malaria, and polio to overcome the challenges in reaching elimination and best practices from the conflict prevention and peacebuilding sector. As conflict and fragility is increasing, if the global community is to meet the WHO's 2030 NTD goals, we must innovate and change our approaches and not leave these areas until the 'last minute'.

CHAIR

Michael French
RTI International, Washington, DC, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
CONFLICT-AFFECTED AND FRAGILE STATES - SETTING THE SCENE

Liz Hume
Alliance for Peace Building, Washington, DC, United States

10:40 a.m.
REACHING CONFLICT AFFECTED AREAS, LESSONS FROM POLIO

Babar Khan
RTI International, Washington, DC, United States

10:55 a.m.
IMPACT OF INSECURITY ON MALARIA IN TIGRAY, ETHIOPIA

Hiwot Solomon
Ministry of Health, Addis Ababa, Ethiopia

11:10 a.m.

IMPLEMENTING A LYMPHATIC FILARIASIS PROGRAM DURING CONFLICT, NATURAL DISASTERS, AND POLITICAL INSTABILITY

Farah Momprevil
Ministère de la Santé Publique et de la Population, Port-au-Prince, Haiti

11:25 a.m.

ADAPTING CONFLICT SENSITIVE APPROACHES TO TRACHOMA IN CABO DELGADO, MOZAMBIQUE

Henis Sitoe
Ministério da Saude, Maputo, Mozambique

Scientific Session 15

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Immunology

Grand Ballroom B - Ballroom Level (East Tower)

Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Omar Harb
University of Pennsylvania, Philadelphia, PA, United States

Camila Queiroz Glauss
National Institutes of Health, Bethesda, MD, United States

10:15 a.m. 5041

A GUT COMMENSAL PROTOZOAN REMOTELY TUNES PULMONARY DISEASE SEVERITY

Kyle Burrows[1], Louis Ngai[1], Pailin Chiaranunt[1], Jacqueline Watt[2], Eric Cao[1], Sui Ling[1], Jun Liu[2], Arthur Mortha[1]
[1]Department of Immunology, University of Toronto, Toronto, ON, Canada, [2]Department of Molecular Genetics, University of Toronto, Toronto, ON, Canada

10:30 a.m. 5042

HYPOXIA PROMOTES CYTOLYTIC ACTIVITY OF CD8 T CELLS AND PATHOGENESIS IN CUTANEOUS LEISHMANIASIS

Erin AL. Fowler[1], Camila Amorim[2], Emily Ds. Hales[1], Aditi Varkey[1], Mariam Salem[1], Gang Xin[1], Patrick L. Collins[1], Fernanda O. Novais[1]
[1]Department of Microbial Infection & Immunity, Wexner Medical Center, The Ohio State University, Columbus, OH, United States, [2]Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA, United States

10:45 a.m. 5043

CD30L EXPRESSION ON CD4+T CELLS IS REQUIRED FOR THE DEVELOPMENT OF ALLERGEN- AND HELMINTH-DRIVEN TYPE 2 INFLAMMATION IN THE LUNG

Camila de Almeida Lopes[1], Dominic Golec[2], Daniel Barber[2], Thomas Nutman[2], **Pedro Gazzinelli-Guimaraes**[2]
[1]Federal University of Minas Gerais, Belo Horizonte, Brazil, [2]National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

11 a.m. 5044

HUMAN FILARIAL INFECTION DRIVES A DISTINCT SIGNATURE OF CD8+T CELL POPULATIONS AT HOMEOSTASIS AND IN RESPONSE TO CYTOMEGALOVIRUS (CMV) IN FILARIAL/CMV COINFECTIONS

Camila Queiroz Glauss, Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States

11:15 a.m. 5045

IL-11 REGULATES MUCOSAL RESPONSES IN ACUTE PULMONARY HELMINTH INFECTION

Pablo Bara-Garcia[1], Oyebola Oyesola[1], Fabricio Oliveira[2], Jonah Kupritz[1], Thomas B. Nutman[1], Pedro E. Gazzinelli-Guimaraes[1]
[1]Laboratory of Parasitic Diseases, NIAID, National Institutes of Health, Bethesda, MD, United States, [2]Laboratory of Immunology and Genomics of Parasites, Department of Parasitology, ICB, UFMG, Belo Horizonte, Brazil

(ACMCIP Abstract)

11:30 a.m. 5046

RAPID INDUCTION OF CLINICAL TOLERANCE IN A PLACEBO-CONTROLLED CLINICAL TRIAL INVESTIGATING REPEATED CONTROLLED EXPOSURE TO SCHISTOSOMA MANSONI

Jan Pieter R. Koopman, Jacqueline J. Janse, Emma L. Houlder, Olivia A.C. Lamers, Geert V.T. Roozen, Angela van Diepen, Jeroen C. Sijtsma, Stan T. Hilt, Eileen van der Stoep, Inge M. van Amerongen-Westra, Eric A.T. Brienen, Linda J. Wammes, Lisette van Lieshout, Govert J. van Dam, Paul L.A.M. Corstjens, Maria Yazdanbakhsh, Ron H. Hokke, Meta Roestenberg
Leiden University Medical Center, Leiden, Netherlands

11:45 a.m. 5047

COMPREHENSIVE ANTIBODY PROFILING IN SCHISTOSOMIASIS REVEALS IMMUNOLOGICAL SIGNATURES OF ACTIVE INFECTION

Anushka Saha[1], Trirupa Chakraborty[2], Sukwan Handali[3], William E. Secor[3], Lucia Alves de Oliveira Fraga[4], Jessica Fairley[5], Jishnu Das[2], **Aniruddh Sarkar**[1]
[1]Georgia Institute of Technology, Atlanta, GA, United States, [2]University of Pittsburgh, Pittsburgh, PA, United States, [3]Center for Disease Control and Protection, Atlanta, GA, United States, [4]Universidade Federal de Juiz de Fora, Juiz de Fora, Brazil, [5]Emory University, Atlanta, GA, United States

(ACMCIP Abstract)

Scientific Session 16

Global Health: Use of Modeling to Improve Our Understanding of Disease Epidemiology and Implementation of Interventions

Grand Hall J - Ballroom Level (East Tower)

Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR

Michael Wimberly
University of Oklahoma, Norman, OK, United States

Jeanne Lemant
Swiss TPH, Allschwil, Switzerland

10:15 a.m. **5048**

MODELING TO SUPPORT DECISIONS ABOUT THE GEOGRAPHIC AND DEMOGRAPHIC EXTENSION OF SEASONAL MALARIA CHEMOPREVENTION IN BENIN

Jeanne Lemant[1], Clara Champagne[1], Cyriaque Affoukou[2], Julien Aïssan[2], Rock Aikpon[2], William Houndjo[2], Sakariahou Kpanou[2], Didier Adjakidje[3], Emilie Pothin[1]
[1]Swiss Tropical and Public Heath Institute, Allschwil, Switzerland, [2]National Malaria Control Program, Ministry of Health, Cotonou, Benin, [3]Clinton Health Access Initiative, Boston, MA, United States

10:30 a.m. **5049**

USING CAUSAL INFERENCE METHODS TO ACCURATELY ESTIMATE THE EFFECT OF INSECTICIDE TREATED NET USE ON RISK OF MALARIA INFECTION

Noel Patson[1], Lauren Cohee[2], Peter Ntenda[1], Terrie Taylor[3], Don Mathanga[1], Clarissa Valim[4], Eric Tchetgen Tchetgen[5]
[1]Malaria Alert Center, Kamuzu University of Health Sciences, Blantyre, Malawi, [2]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Department of Osteopathic Medical Specialties, College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, [4]Department of Global Health, Boston University School of Public Health, Boston, MA, United States, [5]Department of Statistics and Data Science, The Wharton School, University of Pennsylvania, Philadelphia, PA, United States

10:45 a.m. **5050**

MATHEMATICAL MODELLING TO SUPPORT STRATEGIC MALARIA PLANNING IN MOZAMBIQUE

Tatiana Alonso Amor[1], **Sophie Diarra**[1], James Colborn[2], Bradley Didier[2], Baltazar Candrinho[3], Emilie Pothin[1], Branwen Owen[1]
[1]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [2]Clinton Health Access Initiative, Boston, MA, United States, [3]Ministry of Health Mozambique, Maputo, Mozambique

11 a.m. **5051**

CAUSES OF UNDER-FIVE DEATH USING A PROBABILISTIC MODEL (INTERVA5) IN QUELIMANE DISTRICT, CENTRAL MOZAMBIQUE

Charfudin Nicos Sacoor[1], Ariel Nhacolo[1], Alberto Chauque[1], Orvalho Augusto[1], Helio Amaro[1], Tonecas Armando[1], Daniel Massandudzi[1], Elisio Xerinda[1], Esperanca Sevene[1], Solveig Argeseanu[2], Jonathan Muir[2], Inacio Mandomando[1], Quique Bassat[3]
[1]Manhica Health and Research Centre, Manhica-Maputo, Mozambique, [2]Emory University, Department of Global Health, Atlanta, GA, United States, [3]Barcelona Institute for Global Health (ISGlobal), Hospital Clinic-Universitat de Barcelona, Barcelona, Spain

11:15 a.m. **5052**

INVESTIGATING THE ROLE OF HUMAN MOVEMENT ON DISEASES TRANSMISSION DYNAMIC IN KENYA, A TOOL FOR OUTBREAK PREPAREDNESS

Donal Bisanzio[1], Francis Mutuku[2], Said L. Malumbo[3], Jael S. Amugungo[3], Charles M. Ng'ang'a[3], Paul S. Mutuku[3], Desiree LaBeaud[4]
[1]RTI International, Washington, DC, United States, [2]Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, [3]Vector Borne Disease Control Unit, Msambweni County Referral Hospital, Msambweni, Kenya, [4]Department of Pediatrics, Division of Infectious Diseases, Stanford University School of Medicine, Stanford, CA, United States

11:30 a.m. **5053**

IMPORTANCE OF COUNTRY PREPAREDNESS IN HANDLING HEALTH EMERGENCY, THE 2023 EBOLA OUTBREAK IN UGANDA

Donal Bisanzio[1], Sharone Backers[2], Richard Reithinger[1]
[1]RTI International, Washington, DC, United States, [2]RTI International, Kampala, Uganda

11:45 a.m. **5054**

THE GLOBALMIX PROJECT: COMPREHENSIVELY PROFILING SOCIAL CONTACT PATTERNS IN RESOURCE POOR COUNTRIES

Moses Chapa Kiti[1], Obianuju G. Aguolu[2], Noureen Ahmed[2], Charfudin Sacoor[3], Azucena Bardaji[4], Ivalda Macicame[5], Herberth Maldonado[6], Rajan Srinivasan[7], Venkata Raghava Mohan[7], Momin Kazi[8], Alessia Melegaro[9], Fauzia Malik[2], Saad B. Omer[2], Ben Lopman[1]
[1]Emory University, Atlanta, GA, United States, [2]Yale University, New Haven, CT, United States, [3]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, [4]ISGlobal, Barcelona, Spain, [5]Instituto Nacional de Saúde, Maputo, Mozambique, [6]Universidad del Valle de Guatemala, Guatemala City, Guatemala, [7]Christian Medical College, Vellore, India, [8]Aga Khan University, Karachi, India, [9]Bocconi University, Milan, Italy

Symposium 17

LIVE STREAMING

Alan J. Magill Malaria Eradication Symposium: Using Vector Control to Advance Malaria Elimination

Grand Ballroom CDEF - Ballroom Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Supported with funding from the Bill & Melinda Gates Foundation

This annual symposium honors the life and work of ASTMH Past President Alan Magill, who at the time of his untimely death in 2015 was promoting the bold goal of global malaria eradication in his role as the Malaria Direc-tor at the Bill & Melinda Gates Foundation. The symposium will bring leaders in the malaria field together to summarize the challenges and advances in areas of relevance to the malaria elimination and eradication effort.

Integral to the success of malaria eradication will be vector control. The pillars of treated bed nets and insecti-cide application, along with newer, complementary measures to fill interventional gaps, have made major im-pacts. However, challenges continue to arise, requiring reassessments and novel approaches. The speakers at this symposium will take us through a tour of vector control for malaria, both how traditional measures are being implemented and improved, as well as how research and innovation can accelerate our progress toward malaria eradication.

CHAIR

Michele Spring
State University of New York, Upstate Medical University, New York, NY, United States

Helen Jamet
Bill & Melinda Gates Foundation, Seattle, WA, United States

10:15 a.m.
INTRODUCTION

10:30 a.m.
OVERVIEW OF VECTOR CONTROL FOR MALARIA ELIMINATION

David McGuire
Innovative Vector Control Consortium (IVCC), Liverpool, United Kingdom

10:50 a.m.

THE MOSQUITO/HUMAN INTERFACE (I.E., VECTOR CONTROL IMPLEMENTATION IN THE COMMUNITY)

Keziah Malm
Programme Manager for the National Malaria Elimination Programme (NMEP), Accra, Ghana

11:10 a.m.

INTERVENING AT LARVAL HABITAT LEVEL

Gabriel Carrasco-Escobar
Institute of Tropical Medicine, Universidad Peruana Cayetano Heredia, Lima, Peru

11:30 a.m.

INNOVATIONS/NEW HORIZONS FOR VECTOR CONTROL AND MALARIA ELIMINATION

Flaminia Catteruccia
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Scientific Session 18

Kinetoplastida and Other Protozoa: Diagnosis and New Detection Tools

Grand Hall K - Ballroom Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR
Omar Hamarsheh
Al-Quds University, Abu Dies, Palestinian Territory

Jaime Altcheh
Hospital de Niños R. Gutierrez, Buenos Aires, Argentina

10:15 a.m. 5055

TRANSMISSIBILITY OF LEISHMANIA DONOVANI FROM HUMAN TO SAND FLIES IN AN AREA ENDEMIC FOR VISCERAL LEISHMANIASIS IN INDIA

Om Prakash Singh[1], Puja Tiwary[1], Anurag Kumar Kushwaha[1], Shakti Kumar Singh[1], Dhiraj Kumar Singh[1], Rahul Chaube[1], Abhishek Kuamr Singh[1], Tulika Rai[1], Edgar Rowton[2], Jaya Chakravarty[1], David Sacks[3], Shyam Sundar[1]
[1]Banaras Hindu University, Varanasi, India, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [3]National Institute of Allergy and Infectious Diseases, National Institute of Health, Bethesda, MD, United States

10:30 a.m. 5056

MOLECULAR IDENTIFICATION OFLEISHMANIAIN STAINED SLIDES FROM PATIENTS WITH CUTANEOUS LEISHMANIASIS IN SANTARÉM, PARÁ, BRAZIL

Lucia Maria Almeida Braz[1], Vanessa N. Kehdy[1], Nara Karyne D. Feitosa[2], Rose Grace B. Marques[3], José Angelo L. Lindoso[4], Expedito José A. Luna[5]
[1]FMUSP - IMT, São Paulo, Brazil, [2]Nucleo Técnico de Vigilancia em Saúde, Santarém, Pará, Brazil, [3]Núcleo Técnico de Vigilância em Saúde, Santarém, Pará, Brazil, [4]Instituto de Infectologia Emilio Ribas, São Paulo, Brazil, [5]FMUSP, São Paulo, Brazil

10:45 a.m. 5057

USEFULNESS OF ANTI ALPHA-GAL ANTIBODIES AS BIOMARKERS OF THERAPEUTIC RESPONSE IN CHAGAS DISEASE

Jaime Altcheh[1], Manuel Abal[2], Cintia V. Cruz, MD[3], Virginia Balouz[4], Maria E. Giorgi[5], María C. Marino[6], Rosa M. Muchnik de Lederkremer[6], Carlos Buscaglia[7]
[1]Servicio de Parasitologia y Chagas- Hospital de Niños Ricardo Gutierrez, Instituto Multidisciplinario de Investigaciones en Patologías Pediátricas (IMPP) CONICET, CABA, Argentina, [2]Instituto de Investigaciones Biotecnológicas "Dr. Rodolfo A. Ugalde" (UNSAM-CONICET), San Martin - Provincia de Buenos Aires, Argentina, [3]Mahidol Oxford Research Unit, Bangkok, Thailand, [4]Instituto de Investigaciones Biotecnológicas "Dr. Rodolfo A. Ugalde" (UNSAM-CONICET), Buenos Aires, Argentina, [5]Universidad de Buenos Aires. CONICET. Centro de Investigaciones en Hidratos de Carbono (CIHIDECAR). Facultad de Ciencias Exactas y Naturales. Departamento de Química Orgánica, Buenos Aires, Argentina, CABA, Argentina, [6]Universidad de Buenos Aires. Consejo Nacional de Investigaciones Científicas y Técnicas. Centro de Investigaciones en Hidratos de Carbono (CIHIDECAR). Facultad de Ciencias Exactas y Naturales. Departamento de Química Orgánica, Buenos Aires, Argentina, CABA, Argentina, [7]Instituto de Investigaciones Biotecnológicas "Dr. Rodolfo A. Ugalde" (UNSAM-CONICET), Buenos Aires., CABA, Argentina

(ACMCIP Abstract)

11 a.m. 5058

CUTANEOUS LEISHMANIASIS DISEASE AWARENESS IN HIGH ENDEMIC, RURAL SRI LANKA: NEED FOR IMPROVED HEALTH PROMOTION

Sonali Dinushika Gunasekara[1], Nuwan Darshana Wickramasinghe[1], Manjula Weerasinghe[1], Manoj Sanjeewa Fernando[2], Helen Philippa Price[3], Thilini Chanchala Agampodi[1], Suneth Buddhika Agampodi[4]
[1]Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Saliyapura, Sri Lanka, [2]Faculty of Applied Sciences, Rajarata University of Sri Lanka, Mihinthale, Sri Lanka, [3]Centre for Applied Entomology and Parasitology, School of Life Sciences, Keele University, Newcastle-under-Lyme, Staffordshire, United Kingdom, [4]International Vaccine Institute, Seoul, Republic of Korea

11:15 a.m. 5059

A COST-EFFECTIVE LAMP-PCR FOR SCREENING AND MONITORING CHAGAS DISEASE

Sneider Alexander Gutierrez Guarnizo[1], Anshule Takyar[1], Siena Defazio[1], Monica Mugnier[1], Robert Gilman[1], Juan Ramirez[2], Monica Pajuelo[3]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Universidad del Rosario, Bogotá, Colombia, [3]Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

11:30 a.m. 5060

A SET OF DIAGNOSTIC TESTS USEFUL FOR THE DETECTION AND IDENTIFICATION OF LEISHMNANIA PARASITES CAUSING CUTANEOUS LEISHMANIASIS

Yusr Saadi[1], Ahmed Chakroun[1], Hamed Chouaieb[2], Hejer Souguir[1], Insaf Bel Haj Ali[1], Alia Yaacoub[2], Moncef Ben Said[2], Akila Fathallah-Mili[2], Ikram Guizani[1]
[1]Molecular Epidemiology & Experimental Pathology, Institut Pasteur de Tunis, Tunis, Tunisia, [2]Parasitology department, Farhat Hached University Hospital, Sousse, Tunisia

11:45 a.m. 5061

THE PATHWAY TO SUSTAINABLE ELIMINATION OF HUMAN AFRICAN TRYPANOSOMIASIS IN DEMOCRATIC REPUBLIC OF CONGO

Crispin Lumbala wa Mbuyi[1], Pascal Lutumba[2], Jean-Pierre Van geertruyden[1]
[1]University of Antwerp, Wilrijk, Belgium, [2]University of Kinshasa, Kinshasa, Democratic Republic of the Congo

Symposium 19

Overcoming the Lymphatic Filariasis and Onchocerciasis Cliff to Accelerate the Elimination of Two Filarial Diseases

Grand Hall L - Ballroom Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Lymphatic filariasis (LF) and Onchocerciasis (OV) are two major filarial diseases targeted by Act to End | NTD West program. In most endemic countries, the LF and OV mass drug administration (MDA) represents the largest platform for the control and elimination of neglected tropical diseases as it often involves millions of people to be treated or surveyed. The two conditions share many programmatic features for program implementation, drug usage (both using Ivermectin) and community-based platforms for mass drug administration. In several countries, the LF and OV programs are under the same leadership and management of one coordinator, which in many instances, facilitates the coordination and collaboration with donors, partners, and stakeholders, as well as the interactions with the Mectizan Donation Program (MDP). Within the countries supported by the Act to End NTD | West program, Niger and Senegal have stopped MDA for both diseases, respectively in 5 and 8 formally co-endemic districts. The two countries urgently need to develop novel strategies for joint surveillance. In Burkina Faso, where the LF MDA is one of the two rounds of a bi-annual OV MDA, stopping the LF MDA following successful transmission assessment survey (TAS) implementation yields a gap in OV programming. OV/LF endemic districts implementing MDA and planning for entomological assessments or skin snip microscopy should necessarily stop MDA with ivermectin for 6 to 11 months before the evaluations. Other challenges include the need for more valid and reliable integrated field serological tools (bi-plex) capable of detecting the antigens for the two diseases altogether. Currently, Cote D'Ivoire, Nigeria, Benin, and Uganda have successfully stopped MDA for one of the two filarial diseases in part of their countries and to continue MDA for the remaining single disease. Implementing confirmatory mapping for LF in Ghana and onchocerciasis elimination mapping in Guinea and Ghana yield a problematic prospect of starting MDA for one program while stopping MDA for the other. Likewise, the integrated TAS (I-TAS) tool, which combines the assessments of the two filarial diseases, has helped evaluate the presence or absence of a signal of OV endemicity in Tanzania. However, the issue of the focality of OV and the age group remains a challenge for the I-TAS. A panel of implementing partners, endemic country program managers, and scientists will share experiences discuss the OV/LF cliff co-investigations, and joint surveillance for LF and OV.

CHAIR
Ernest K O. Mensah
FHI 360, Accra, Ghana

Katherine Gass
Task Force for Global Health, Decatur, GA, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
LYMPHATIC FILARIASIS AND ONCHOCERCIASIS CO-ENDEMICITY IN A COMPLEX CONTEXT OF LOASIS
Georges Nko'Ayissi
Directorate of Control of Malaria and Neglected Tropical Diseases, Yaounde, Cameroon

10:40 a.m.
THE LYMPHATIC FILARIASIS - ONCHOCERCIASIS CLIFF IN COTE D'IVOIRE - CONTINUING IVERMECTIN DISTRIBUTION IN AN INCREASING NUMBER OF LYMPHATIC FILARIASIS AND ONCHOCERCIASIS CO-ENDEMIC DISTRICTS THAT ARE STOPPING LF MDA
Aboulaye Méité
Ministry of Health Cote D'Ivoire, Abidjan, Côte D'Ivoire

10:55 a.m.
LYMPHATIC FILARIASIS AND ONCHOCERCIASIS DIAGNOSTIC TOOLS FOR SURVEILLANCE
Kimberly Won
CDC, Atlanta, GA, United States

11:10 a.m.
THE IMPORTANCE OF INTEGRATED POST-VALIDATION SURVEILLANCE FOR LYMPHATIC FILARIASIS AND ONCHOCERCIASIS
Katherine Gass
Task Force for Global Health, Decatur, GA, United States

Scientific Session 20

Bacteriology: Salmonella, Shigella, and Other Enteric Infections

Plaza Ballroom - Lobby Level (East Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR
Kesia da Silva
Stanford University, Stanford, CA, United States

Kawsar Talaat
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:15 a.m. **5062**

DETECTION OF SALMONELLA TYPHI BACTERIOPHAGES IN SURFACE WATERS AS A SCALABLE APPROACH TO ENVIRONMENTAL SURVEILLANCE
Kesia da Silva[1], Sneha Shrestha[2], Jivan Shakya[3], Alexander T. Yu[1], Nishan Katuwal[2], Rajeev Shrestha[2], Mudita Shakya[2], Sabin B. Shahia[2], Shiva R. Naga[2], Christopher LeBoa[4], Kristen Aiemjoy[5], Isaac I. Bogoch[6], Senjuti Saha[7], Dipesh Tamrakar[2], Jason R. Andrews[1]
[1]Department of Medicine, Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States, [2]Center for Infectious Diseases, Dhulikhel Hospital Kathmandu University Hospital, Dhulikhel, Nepal, [3]Institute for Research in Science and Technology, Kirtipul, Nepal, [4]University of California Berkeley, Department of Environmental Health Sciences, Berkeley, CA, United States, [5]University of California Davis, School of Medicine, Department of Public Health Sciences, Davis, CA, United States, [6]Department of Medicine, Division of Infectious Diseases, University of Toronto, Toronto, ON, Canada, [7]Child Health Research Foundation, Dhaka, Bangladesh

10:30 a.m. 5063

SEROINCIDENCE OF SALMONELLA ENTERICA SEROVARS TYPHI AND PARATYPHI IN CHILDREN IN KENYA

Aslam Khan[1], Izabela Rezende[1], Richelle Charles[2], Francis Mutuku[3], Bryson Ndenga[4], Zainab Jembe[5], Priscilla Maina[5], Philip Chebii[5], Charles Ronga[4], Laura Mwambingu[4], Victoria Okuta[4], Donal Bisanzio[6], Jason Andrews[1], Angelle D. LaBeaud[1]
[1]Stanford University, Stanford, CA, United States, [2]Massachusetts General Hospital, Boston, MA, United States, [3]Technical University of Mombasa, Mombasa, Kenya, [4]Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, [5]Vector Borne Disease Control Unit, Msambweni, Kenya, [6]RTI International, Washington, DC, United States

10:45 a.m. 5064

EFFICACY AND SAFETY OF A TYPHOID CONJUGATE VACCINE: FINAL ANALYSIS OF A FOUR-YEAR, PHASE 3 TRIAL IN MALAWIAN CHILDREN

Priyanka D. Patel[1], Yuanyuan Liang[2], James E. Meiring[1], **Nginache V. Nampota-Nkomba**[3], Theresa Misiri[1], Felistas Mwakiseghile[1], Leslie P. Jamka[4], J. Kathleen Tracy[4], Osward Nyirenda[3], Richard Wachepa[1], Robert S. Heyderman[5], Matthew B. Laurens[4], Melita A. Gordon[1], Kathleen M. Neuzil[4]
[1]Malawi- Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, [2]Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Blantyre Malaria Project, Blantyre, Malawi, [4]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [5]Division of Infection and Immunity, University College London, London, United Kingdom

11 a.m. 5065

CROSS PROTECTION OF HETEROLOGOUS SHIGELLA FLEXNERI 2A AND S. SONNEI CHALLENGE IN HEALTHY ADULTS IN THE UNITED STATES

Kawsar R. Talaat[1], Chad K. Porter[2], Subhra Chakraborty[1], Bridgett Finley[1], Arthi Rameshkumar[1], Jessica L. Brubaker[1], Sandra D. Isidean[3], Courtney M. Swisher[1], Madison M. Billingsley[1], Brittany L. Feijoo[1], Katherine J. DeTizio[3], Kamal Dhanjani[1], Barbara DeNearing[1], Akamol E. Suvarnapunya[4], Nicole Maier[5], Patricia Njuguna[6], Calman MacLennan[7]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Naval Medical Research Command, Silver Spring, MD, United States, [3]Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Bethesda, MD, United States, [4]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [5]PATH Center for Vaccine Innovation and Access, Washington, DC, United States, [6]PATH Center for Vaccine Innovation and Access, Seattle, WA, United States, [7]Bill & Melinda Gates Foundation, Seattle, WA, United States

11:15 a.m. 5066

DEVELOPMENT OF A SHIGELLA MULTIVALENT BIOCONJUGATE VACCINE: A PHASE I/II RANDOMIZED, CONTROLLED AND AGE DESCENDING STUDY INCLUDING DOSE FINDING IN KENYAN INFANTS

Chinaza Ezirim[1], Cristina Alaimo[1], Mainga Hamaluba[2], Josphat Kosgei[3], Jane Adetifa[2], Patricia Martin[1]
[1]LimmaTech Biologics, Schlieren, Switzerland, [2]KEMRI-CGMRC, Kilifi, Kenya, [3]KEMRI-USAMRD-K, Kericho, Kenya

11:30 a.m. 5067

HUMAN MILK OLIGOSACCHARIDES AND CAMPYLOBACTER JEJUNI INFECTION RISK IN NICARAGUAN CHILDREN

Rebecca J. Rubinstein[1], Roberto Herrera[2], Christian Toval-Ruíz[2], Nadja Vielot[1], Lester Gutiérrez[2], Yaoska Reyes[1], Fredman González[2], Patricia Blandón[2], Natalie Bowman[1], Lars Bode[3], Filemón Bucardo[1], Sylvia Becker-Dreps[1], Samuel Vilchez[2]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Universidad Nacional Autónoma de Nicaragua-León, León, Nicaragua, [3]University of California San Diego, San Diego, CA, United States

11:45 a.m. 5068

PREDICTING SEROCONVERSION FAILURE AFTER ORAL POLIO VACCINATION IN CHILDREN IN LOW- AND MIDDLE-INCOME COUNTRIES

Sharia M. Ahmed[1], Ben J. Brintz[1], Patricia B. Pavlinac[2], James A. Platts-Mills[3], Daniel T. Leung[1]
[1]University of Utah, Salt Lake City, UT, United States, [2]University of Washington, Seattle, WA, United States, [3]University of Virginia, Charlottesville, VA, United States

Symposium 21

Kidney Disease of Unknown Etiology and Other Challenges to Renal Health in the Tropics

Crystal Ballroom A - Lobby Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Epidemics of chronic kidney disease of unknown etiology (CKDu) in recent years in Central America, Sri Lanka, and other tropical regions have shined a spotlight on the changing clinical and epidemiologic picture of kidney disease, worldwide. Kidney disease in the tropical context does not mirror what is observed elsewhere. Opportunities for prevention and therapeutic intervention are hindered by, among other things, limited resources and access to advanced renal care. This panel of nephrology and tropical medicine experts will discuss the epidemiology of tropical kidney disease - including CKDu, provide some insight into infectious, toxic, and other environmental exposures contribute to the mounting renal morbidity and mortality, and address some of the challenges to preserving and improving renal health in the tropics.

CHAIR

Rebecca SB Fischer
Texas A&M University, College Station, TX, United States

Anna Strasma
Duke University, Durham, NC, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
GLOBAL PERSPECTIVES ON RENAL HEALTH

Vivekanand Jha
The George Institute for Global Health, Delhi, India

10:50 a.m.
GLOBAL OVERVIEW OF CKDU, A TROPICAL MEDICINE MYSTERY

Marvin A. Gonzalez Quiroz
University College London, London, United Kingdom

11:10 a.m.
KIDNEY DISEASE IN HIV, MALARIA, LEPTOSPIROSIS, AND OTHER TROPICAL INFECTIONS
Christina M. Wyatt
Duke University School of Medicine, Durham, NC, United States

11:30 a.m.
SPOTLIGHT ON KIDNEY DISEASE IN CENTRAL AMERICA – CHALLENGES TO PREVENTION, DIAGNOSIS, AND MANAGEMENT
Ramón García Trabanino
Emergency Social Fund for Health of Tierra Blanca, Usulután, El Salvador

11:55 a.m.
MODERATOR, PANEL DISCUSSION
Anna Strasma
Duke University, Durham, NC, United States

Symposium 22

Antimicrobial Stewardship in LMIC: Impact of Research, Training, Biomarkers, and Digital Health Tools

Crystal Ballroom B - Lobby Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

Antimicrobial resistance (AMR) is a major global health issue that is associated with deaths of more people than HIV and malaria each year. Inappropriate antibiotic prescription is among the biggest drivers of AMR. This symposium will bring together a diverse group of experts implementing antimicrobial stewardship initiatives at the primary care health facility level in low- and middle- income countries (LMICs). A wide range of antimicrobial stewardship initiatives will be presented including digital health tools, point-of-care biomarkers, AMR research, education, and training. Attendees will learn about why some digital health tools have reduced antibiotic prescription by 3-fold, while others have had little to no impact on antibiotic prescriptions. The impact of point of care inflammatory markers such as C-reactive protein and procalcitonin in combination with digital health tools or alone will be explored, dissecting how such biomarkers can have the greatest impact on antibiotic prescription. Finally, sustainable research platforms, education and training programs to tackle AMR will be reviewed. This symposium will provide valuable insights and practical solutions to help understand what antibiotic stewardship initiatives can best address the challenge of inappropriate antibiotic prescription, and antimicrobial resistance.

CHAIR
Janak Koirala
Patan Academy of Health Sciences, Lalitpur, Nepal

Rainer Tan
Unisanté / SwissTPH / Ifakara Health Institute, Lausanne, Switzerland

10:15 a.m.
INTRODUCTION

10:25 a.m.
AN EDUCATION AND TRAINING PROGRAM TO IMPLEMENT AN ANTIMICROBIAL STEWARDSHIP PROGRAM IN NEPAL
Andrew Trotter
University of Illinois at Chicago, Chicago, IL, United States

10:45 a.m.
DIGITAL HEALTH TOOLS FOR ANTIBIOTIC STEWARDSHIP
Rainer Tan
Unisanté / SwissTPH / Ifakara Health Institute, Lausanne, Switzerland

11:05 a.m.
AMR DIAGNOSTICS USE ACCELERATOR
Juvenal Nkeramahame
FIND, the global alliance for diagnostics, Geneva, Switzerland

11:25 a.m.
AMR RESEARCH: SUSTAINABLE RESEARCH PARTNERSHIPS AND GLOBAL HEALTH EQUITY
Abhilasha Karkey
Oxford University Clinical Research Unit Nepal, Lalitpur, Nepal

Scientific Session 23

Viruses - Evolution and Genomic Epidemiology

Regency Ballroom A - Ballroom Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR
Rafael Kroon Campos
University of Texas Medial Branch at Galveston, Galveston, TX, United States

Emily Gallichotte
Colorado State University, Fort Collins, CO, United States

10:15 a.m. **5069**

ASSESSING THE CONTRIBUTION OF NUCLEOTIDE VARIATIONS IN THE MAYARO VIRUS GENOME TO ITS ADAPTIVE LANDSCAPE IN *A. AEGYPTI* AND A. ALBOPICTUS MOSQUITOES
Rafael Kroon Campos[1], Sasha R. Azar[2], Tina Nguyen[1], Judy Ly[3], Ruimei Yun[1], Bilal Khan[1], Shannan L. Rossi[4], Scott C. Weaver[5]
[1]Department of Microbiology and Immunology, University of Texas Medial Branch at Galveston, Galveston, TX, United States, [2]Department of Surgery, Houston Methodist Research Institute, Houston, TX, United States, [3]Department of Pathology, University of Texas Medial Branch at Galveston, Galveston, TX, United States, [4]Department of Pathology and the Institute for Human Infections and Immunity, University of Texas Medial Branch at Galveston, Galveston, TX, United States, [5]Department of Microbiology and Immunology and the Institute for Human Infections and Immunity, University of Texas Medial Branch at Galveston, Galveston, TX, United States

10:30 a.m. **5070**

USING BARCODED WEST NILE VIRUS TO QUANTIFY THE IMPACT OF TISSUE-ASSOCIATED BOTTLENECKS ON VIRUS POPULATIONS IN ENZOOTIC AND BRIDGE VECTORS OF WNV
Emily Anne Fitzmeyer, Emily N. Gallichotte, Kyra Pyron, Marylee Kapuscinski, Gregory D. Ebel
Colorado State University, Fort Collins, CO, United States

10:45 a.m. **5071**

INTRA-HOST DIVERSITY IN VACCINATED COVID-19 PATIENTS INFECTED WITH DIFFERENT SARS-COV-2 VARIANTS
Beatriz de Carvalho Marques[1], Cecília Banho[1], Renan Souza[2], Nikos Vasilakis[3], Lívia Sacchetto[1], Maurício Nogueira[1]
[1]Faculdade de Medicina de São José do Rio Preto, São José do Rio Preto, Brazil, [2]Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, [3]The University of Texas Medical Branch, Galveston, TX, United States

11 a.m. 5072

VIRAL SEQUENCE DATA FOR EPIDEMIOLOGICAL CHARACTERIZATION OF GLOBAL DENGUE VIRUS OUTBREAKS

Sindiso Nyathi, Izabella Mauricio Rezende, A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

11:15 a.m. 5073

THE IMPACT OF TEMPERATURE ON WEST NILE VIRUS MOSQUITO BOTTLENECKS AND ANTIVIRAL IMMUNITY

Emily Gallichotte, Emily Fitzmeyer, Gregory Ebel
Colorado State University, Fort Collins, CO, United States

11:30 a.m. 5074

GENOMIC SURVEILLANCE DURING THE FIRST-EVER HYPERENDEMIC TRANSMISSION OF ALL FOUR DENGUE VIRUS SEROTYPES IN NICARAGUA IN 2022 REVEALS NEW VIRAL INTRODUCTIONS POST-PANDEMIC

Gerald Vasquez[1], Cristhiam Cerpas[2], Hanny Moerira[1], Jose Soto[1], Mabel Hernandez[1], Jose Juarez[1], Josefina Coloma[3], Shannon Bennett[4], Eva Harris[3], Angel Balmaseda[2]
[1]Sustainable Science Institute, Managua, Nicaragua, [2]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, [3]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [4]California Academy of Sciences, San Francisco, CA, United States

11:45 a.m. 5075

METAGENOMICS IDENTIFIES EMERGING AND RE-EMERGING VIRUSES IN NIGERIAN COHORTS WITH ACUTE FEBRILE ILLNESSES, INCLUDING PATHOGENS OF GLOBAL CONCERN

Judith Uche OGUZIE[1], Brittany A. Petros[2], Paul E. Oluniyi[1], Samar B. Mehta[3], Philomena E. Eromon[1], Opeoluwa Adewale-Fasoro[1], Peace D. Ifoga[1], Ikponmwosa Odia[4], Andrzej Pastusiak[5], Otitoola S. Gbemisola[1], John O. Aiyepada[4], Eghosasere A. Uyigue[4], Akhilomen P. Edamhande[4], Osiemi Blessing[4], Michael Airende[4], Parvathy Nair[2], Christopher Tomkins-Tinch[2], James Qu[2], Liam Stenson[2], Nicholas Oyejide[1], Nnenna A. Ajayi[6], Kingsley Ojide[6], Onwe Ogah[6], Chukwuyem Abejegah[7], Nelson Adedosu[7], Oluwafemi Ayodeji[7], Sylvanus Okogbenin[4], Peter O. Okokhere[4], Onikepe A. Folarin[1], Isaac O. Komolafe[1], Chikwe Ihekweazu[8], Simon D.W. Frost[5], Ethan K. Jackson[5], Katherine J. Siddle[2], Pardis C. Sabeti[2], Christian T. Happi[1]
[1]Redeemer's University, Ede, Nigeria, [2]Broad Institute of Harvard and MIT, Cambridge, MA, USA, MA, United States, [3]University of Maryland Medical Center,, Baltimore, MA, USA, MD, United States, [4]ISTH, Irrua, Nigeria, [5]Microsoft Premonition,, Redmond, Washington, USA, WA, United States, [6]FETHA, Abakaliki, Nigeria, [7]FMC, Owo, Nigeria, [8]NCDC, Abuja, Nigeria

Scientific Session 24

One Health I: The Interconnection Between People, Animals, Plants and Their Shared Environment

Regency Ballroom B - Ballroom Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR
Ahmed Abd El Wahed
Leipzig University, Leipzig,, Germany

Kelly Baker
University of Iowa, Iowa City, IA, United States

10:15 a.m. 5076

ASSESSING RISK FACTORS FOR MALARIA AND SCHISTOSOMIASIS AMONG CHILDREN IN MISUNGWI, TANZANIA, AN AREA OF CO-ENDEMICITY: A MIXED METHODS STUDY

Claudia Duguay[1], Jacklin Mosha[2], Natacha Protopopoff[3], Franklin Mosha[4], Charles Thickstun[1], Eliud Lukole[2], Elizabeth Mallya[4], Tatu Aziz[2], Cindy Feng[5], Alphaxard Manjurano[2], Alison Krentel[1], Manisha A. Kulkarni[1]
[1]University of Ottawa, Ottawa, ON, Canada, [2]National Institute for Medical Research Tanzania, Mwanza Research Centre, Mwanza, United Republic of Tanzania, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, [5]Dalhousie University, Halifax, NS, Canada

10:30 a.m. 5077

ONE HEALTH APPROACH TO NIPAH VIRUS OUTBREAK INVESTIGATION AMIDST OF COVID-19 PANDEMIC IN BANGLADESH, 2021-2022

Ariful Islam[1], Shariful Islam[2], Shusmita Dutta Choudhury[2], Sarah Munro[1], Md Abu Sayeed[2], Md Mehedi Hasan[2], Md. Zulqarnine Ibne Noman Noman[2], Abdul Khaleque Md. Dawlat Khan[2], Nabila Nujhat Chowdhury[2], Sharmin Sultana[2], Ahmad Raihan Sharif[2], Mohammad Enayet Hossain[3], Maryska Kaczmarek[1], Md Ziaur Rahman[3], Tahmina Shirin[2], Jonathan H Epstein[1]
[1]EcoHealth Alliance, New York, NY, United States, [2]Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh, [3]One Health laboratory,International center for diarrheal disease research (icddr,b), Dhaka, Bangladesh

10:45 a.m. 5078

DELINEATING THE ROLE OF RATS, CLIMATE AND ENVIRONMENT AS DRIVERS OF LEPTOSPIRA SPILLOVER TRANSMISSION USING ECO-EPIDEMIOLOGICAL GEOSTATISTICS IN AN URBAN BRAZILIAN INFORMAL SETTLEMENT

Max Eyre[1], Fábio N. Souza[2], Pablo R. Cuenca[3], Nivison Nery Jr.[2], Daiana de Oliveira[2], Jaqueline S. Cruz[2], Marbisa NR das Virgens[2], Juliet O. Santana[2], Mayara C. de Santana[2], Gielson A. Sacramento[2], Hussein Khalil[4], Kathryn P. Hacker[5], Elsio A. Wunder Jr[6], James E. Childs[6], Mitermayer G. Reis[7], Mike Begon[8], Peter J. Diggle[3], Albert I. Ko[6], Emanuele Giorgi[3], Federico Costa[2]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Institute of Collective Health, Federal University of Bahia, Salvador, Brazil, [3]Centre for Health Informatics, Computing, and Statistics, Lancaster University Medical School, Lancaster, United Kingdom, [4]Swedish University of Agricultural Sciences, Umea, Sweden, [5]University of Pennsylvania, Philadelphia, PA, United States, [6]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, [7]Oswaldo Cruz Foundation, Brazilian Ministry of Health, Salvador, Brazil, [8]Department of Evolution, Ecology and Behaviour, University of Liverpool, Liverpool, United Kingdom

11 a.m. 5079

BREAKING TRANSMISSION: A TRANSDISCIPLINARY ONE HEALTH APPROACH TO IMPROVE HOOKWORM CONTROL

Vito Colella[1], Patsy A. Zendejas-Heredia[1], Virak Khieu[2], Susana Vaz Nery[3], Robin B. Gasser[1], Rebecca J. Traub[1], Martin Walker[4]
[1]The University of Melbourne, Melbourne, Australia, [2]Ministry of Health, Phnom Penh, Cambodia, [3]The University of New South Wales, Sydney, Australia, [4]Royal Veterinary College, Melbourne, Australia

11:15 a.m. 5080

BARRIERS AND ENABLERS TO THE IMPLEMENTATION OF THE ANTIMICROBIAL RESISTANCE NATIONAL ACTION PLAN IN MALAWI

Elias Rejoice Maynard Phiri[1], Jessie Mphande[2], Tumaini Malenga[2], Nicholas Feasey[3], Russell Dacombe[3]
[1]Malawi-Liverpool-Wellcome Programme, Blantyre, Malawi, [2]Africa Institute for Development Policy, Lilongwe, Malawi, [3]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

11:30 a.m. 5081

A PLANETARY HEALTH INNOVATION FOR DISEASE, SUSTAINABILITY, FOOD, WATER, & POVERTY CHALLENGES IN WEST AFRICA

Jason R. Rohr[1], Alexandra Sack[1], Sidy Bakhoum[1], Christopher B. Barrett[2], David Lopez-Carr[3], Andrew Chamberlin[4], David J. Civitello[5], Molly J. Doruska[2], Giulio A. De Leo[4], Christopher J E Haggerty[1], Isabela J. Jones[4], Nicolas Jouanard[6], Andrea J. Lund[3], Amadou T. Ly[7], Raphael A. Ndione[7], Justin V. Remais[8], Gilles Riveau[9], Momy Seck[6], Simon Senghor[7], Susanne H. Sokolow[4], Caitlin Wolfe[10]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Cornell University, Ithaca, NY, United States, [3]UC Santa Barbara, Santa Barbara, CA, United States, [4]Stanford University, Stanford, CA, United States, [5]Emory University, Atlanta, GA, United States, [6]SIA, St Louis, Senegal, [7]EPLS, St Louis, Senegal, [8]UC Berkeley, Berkeley, CA, United States, [9]EPLA, St Louis, Senegal, [10]University of South Florida, Tampa, FL, United States

11:45 a.m. 5082

APPLYING A ONE HEALTH DISPARITIES FRAMEWORK TO ADDRESS THE SOCIAL GRADIENT AND HEALTH DISPARITIES OF BLASTOCYSTIS SP. INFECTION IN NORTHEAST MADAGASCAR

Alma Solis[1], Angela Anaeme[1], Georgia Titcomb[2], Mark Janko[1], Michelle Pender[1], Jean Y. Rabezara[3], Tyler Barrett[1], Randy Kramer[1], Hillary Young[4], Charles Nunn[1]
[1]Duke University, Durham, NC, United States, [2]Colorado State University, Fort Collins, CO, United States, [3]Centre Universitaire Régional de la SAVA, Antalaha, Madagascar, [4]University of Santa Barbara, Santa Barbara, CA, United States

Scientific Session 25

Ectoparasite-Borne Diseases I

Regency Ballroom C - Ballroom Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR
Kristen Aiemjoy
University of California Davis, Davis, CA, United States

J. Stephen Dumler
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

10:15 a.m. 5083

EMERGENCE AND SPREAD OF HEARTLAND AND BOURBON VIRUSES IN NEW YORK STATE

Alan P. Dupuis II[1], Rachel Elizabeth Lange[2], Melissa Prusinski[3], Joseph G. Maffei[4], Cheri A. Koetzner[4], Lindsey Tomaszek[4], Bryon Backenson[3], Laura D. Kramer[4], Alexander T. Ciota[4]
[1]Arbovirus Laboratory, Wadsworth Center NYSDOH, Slingerlands, NY, United States, [2]University at Albany School of Public Health and Wadsworth Center, Albany, NY, United States, [3]Bureau of Communicable Disease Control, New York State Department of Health, Albany, NY, United States, [4]Arbovirus Laboratory, Wadsworth Center NYSDOH, Albany, NY, United States

10:30 a.m. 5084

INTERSPECIES CO-FEEDING TRANSMISSION OF HEARTLAND VIRUS BETWEEN A NATIVE TICK SPECIES, AMBLYOMMA AMERICANUM, AND THE INVASIVE EAST ASIAN TICK, HAEMAPHYSALIS LONGICORNIS

Parker D. Norman, Clemence Obellianne, Meghan E. Hermance
University of South Alabama College of Medicine, Mobile, AL, United States

10:45 a.m. 5085

BORRELIA BURGDORFERI ENZOOTIC CYCLE IN CONSTANT FLUX

Heidi Goethert[1], Richard Johnson[2], Patrick Roden-Reynolds[2], Sam Telford[1]
[1]Tufts Cummings School of Veterinary Medicine, Grafton, MA, United States, [2]Martha's Vineyard Tick Initiative, West Tisbury, MA, United States

11 a.m. 5086

SPATIOTEMPORAL EVOLUTION OF LYME DISEASE IN NORTH CAROLINA FROM 2010 TO 2020

Neha V. Mokashi, Amanda Brown Marusiak, Dana Giandomenico, Annie Green Howard, Paul L. Delamater, Ross M. Boyce
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

11:15 a.m. 5087

ECO-EPIDEMIOLOGY OF RICKETTSIA SPP. IN RURAL ANDEAN COMMUNITIES: FIRST REPORT OF R. MONACENSIS AND R. RAOULTII-LIKE ORGANISMS IN SOUTH AMERICA AND THEIR POTENTIAL VECTORS

Winnie Contreras[1], Cusi Ferradas[1], Marco Risco[1], Luis Mosto[1], Oliver Bocanegra[1], Laura Backus[2], Victor Pacheco[3], Evan M. Bloch[4], Andrés G. Lescano[1]
[1]Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia (UPCH), Lima, Peru, [2]Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA, United States, [3]Universidad Nacional Mayor de San Marcos, Natural History Museum, Lima, Peru, [4]Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, MD, United States

(ACMCIP Abstract)

11:30 a.m. 5088

SCRUB TYPHUS OUTBREAK IN AUSTRALIAN MILITARY PERSONNEL

Rebecca Suhr, Samantha Nind, **Fiona McCallum**
ADFMIDI, Brisbane, Australia

11:45 a.m. 5089

ESTIMATING THE SEROINCIDENCE OF SCRUB TYPHUS USING ANTIBODY DYNAMICS FOLLOWING INFECTION

Kristen Aiemjoy
University of California Davis, Davis, CA, United States

Symposium 26

Antimalarials: Tackling *P. falciparum* Resistance Through the Use of Irresistible Compounds

Regency Ballroom D - Ballroom Level (West Tower)
Thursday, October 19, 10:15 a.m. - Noon U.S. Central Time Zone

A major hurdle to successful treatment and control of *Plasmodium falciparum* malaria has been the emergence and spread of parasite resistance to first-line drugs. This is especially concerning with the recent emergence of artemisinin partial resistance in several countries in eastern Africa, placing partner drugs and treatment efficacy at increased risk. This symposium highlights recent evidence that parasites in Uganda appear to be acquiring resistance to both components of the dominant first-line therapy artemether-lumefantrine (Coartem). The symposium then explores the portfolio of compounds, termed "irresistibles", that are being developed by the Medicines for Malaria Venture and its partners and that have not yielded resistance via *in vitro* selection experiments. The next talk highlights recent Insights into *P. falciparum* genetic determinants that can modulate parasite susceptibility to a collection of these samples, using genetic crosses in humanized mice. The fourth talk illustrates proteomic approaches that are providing important insights into the mode of action of irresistible drugs as well as compounds in advanced stages of development. Identifying genetic markers of *P. falciparum* resistance to first-line drugs that historically have been refractory to resistance and developing a pipeline of irresistible drugs are vital components of global efforts to effectively treat *P. falciparum* malaria.

CHAIR
Didier Jean Leroy
Medicines for Malaria Venture, Geneva, Switzerland

Susan Wyllie
School of Life Sciences in Dundee University, Dundee, United Kingdom

10:15 a.m.
INTRODUCTION

10:25 a.m.
REDUCED SUSCEPTIBILITY OF FRESH *PLASMODIUM FALCIPARUM* ISOLATES TO LUMEFANTRINE IN NORTHERN UGANDA
Patrick K. Tumwebaze
Infectious Disease Research Collaboration, Kampala, Uganda

10:50 a.m.
DEVELOPING A PIPELINE OF IRRESISTIBLE ANTIMALARIALS
Didier J. Leroy
Medicines for Malaria Venture, Geneva, Switzerland

11:15 a.m.
DEFINING *P. FALCIPARUM* SUSCEPTIBILITY TO IRRESISTIBLE COMPOUNDS USING GENETIC CROSSES
David A. Fidock
Columbia University Medical Center, New York, NY, United States

11:40 a.m.
PROTEOMIC APPROACHES TO DISSECTING THE MODE OF ACTION OF IRRESISTIBLE COMPOUNDS
Susan Wyllie
School of Life Sciences Dundee University, Dundee, United Kingdom

American Committee of Medical Entomology (ACME) Trainee Networking Lunch Event

Crystal Ballroom C - Lobby Level (West Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

These lunch table meetings, organized by the ACME subgroup of ASTMH, aims to provide students and postdoctoral fellows an opportunity to interact with established medical entomologists to discuss job opportunities, related scientific work and receive valuable career guidance and direction.

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Thursday, October 19, Noon- 1:30 p.m. U.S. Central Time Zone

Poster Session 27

Poster Session A Presentations

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Thursday, October 19, Noon - 1:45 p.m.

Poster Session A Directory

Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 5091-5109
Global Health – Other: 5110 -5137
Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 5138-5164
Arthropods/Entomology – Other: 5165- 5175
Mosquitoes - Biology and Genetics of Insecticide Resistance: 5176- 5188
Mosquitoes - Bionomics, Behavior and Surveillance: 5189- 5208
Mosquitoes - Epidemiology and Vector Control: 5209- 5238
Ectoparasite-Borne Disease - Babesiosis and Lyme Disease 5239- 5241
Ectoparasite-Borne Disease – Other: 5242- 5252
Viruses - Emerging Viral Diseases: 5253- 5269
Viruses – Epidemiology: 5270- 5285
Viruses - Evolution and Genomic Epidemiology: 5286- 5296
Viruses – Immunology: 5297- 5311
Viruses - Pathogenesis and Animal Models: 5312- 5327
Viruses - Therapeutics and Antiviral Drugs: 5328- 5342
Malaria - Antimalarial Resistance and Chemotherapy: 5343- 5360
Malaria - Diagnosis - Challenges and Innovations: 5361- 5379
Malaria - Drug Development and Clinical Trials: 5380- 5391
Malaria – Elimination: 5392- 5407
Malaria – Epidemiology: 5408- 5435
Malaria - Genetics, Genomics and Evolution: 5436- 5452
Malaria – Immunology: 5453- 5463
Malaria – Pathogenesis: 5464- 5474
Malaria – Prevention: 5475- 5499
Malaria – Surveillance and Data Utilization: 5500- 5519
Malaria - Vaccines and Immunotherapeutics: 5520- 5532
Bacteriology - Enteric Infections: 5533- 5543
Bacteriology - Other Bacterial Infections: 5544- 5561
Clinical Tropical Medicine: 5562- 5578
Helminths – Nematodes – Filariasis (Epidemiology): 5579- 5591
Helminths – Nematodes – Filariasis (Genetics/Genomics): 5592- 5593
Helminths – Nematodes – Filariasis (Immunology): 5594- 5598
Integrated Control Measures for Neglected Tropical Diseases (NTDs): 5599- 5609
Kinetoplastida and Other Protozoa - Diagnosis and New Detection Tools (Including Leishmania and Trypanosomes): 5610- 5622
Kinetoplastida and Other Protozoa - Genomics, Proteomics and Metabolomics, Molecular Therapeutic Targets (Including Leishmania and Trypanosomes): 5623- 5629
One Health: The Interconnection between People, Animals, Plants and Their Shared Environment: 5630- 5641
Pneumonia, Respiratory Infections and Tuberculosis: 5642- 5657
Schistosomiasis and Other Trematodes – Diagnostics and Treatment: 5658- 5667
Schistosomiasis and Other Trematodes – Epidemiology and Control: 5668- 5677
Water, Sanitation, Hygiene and Environmental Health: 5678- 5687

Global Health - Information/ Communication/Technologies Solutions in Global Health including Modeling

5091

A CONTENT REVIEW OF COVID-19 RELATED APPS USED IN VIETNAM

Linh Tran[1], **Nguyen Thanh An**[1], Federica Cucé[2], Kadek Agus Dila[3], Nguyen Hai Nam[4], Doan Le Nguyet Cat[5], Lee Wei Jun[6], Farrukh Ansar[7], Fatima Abdallh[8], Au Vo[9], Nguyen Tien Huy[10]
[1]Duy Tan University, Da Nang, Vietnam, [2]University hospital of Verona, Verona, Italy, [3]Giri Emas Hospital, Bali, Indonesia, [4]Johns Hopkins University School of Medicine, Baltimore, MD, United States, [5]Fleetwood Park Secondary School, Surrey, BC, Canada, [6]International Medical University, Kuala Lumpur, Malaysia, [7]Khyber Medical University, Peshawar, Pakistan, [8]Hashemite University, Zarqua, Jordan, [9]University of California, Los Angeles, CA, United States, [10]School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan

5092

COMPREHENSIVE COST-EFFECTIVENESS ANALYSIS OF A NEW COMPARTMENTAL MODEL FOR BACTERIAL MENINGITIS CONSIDERING THE INFLUENCE OF THE MEDIA

Yarhands Dissou Arthur[1], Joshua Kiddy K Asamoah[2], Alexander Kwarteng[2]
[1]AKENTEN APPIAH-MENKA UNIVERSITY OF SKILLS TRAINING AND ENTREPRENEURIAL DEVELOPMENT, Kumasi, Ghana, [2]KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, Kumasi, Ghana

5094

COST-EFFECTIVENESS ANALYSIS OF 4TH GENERATION RAPID DIAGNOSTIC TESTING FOR HIV AMONG MEN WHO HAVE SEX WITH MEN IN NIGERIA

David Wastlund[1], Rebecca Sim Shu Yu[1], **Michelle Sotak**[2]
[1]Vista Health Pte Ltd, Singapore, Singapore, [2]Abbott, Abbott Park, IL, United States

5096

DIGITIZATION OF THE NATIONAL LONG ACTING INSECTICIDE TREATED MOSQUITO NET MASS DISTRIBUTION CAMPAIGN IN GUINEA: PROCESS, CHALLENGES AND LESSONS LEARNED

Abdourahamane Diallo[1], Moustapha Camara[1], Fatoumata Battouly Diallo[2], Mamadou Sitan Keita[3], Agossa Charles Lebon LAWSON[2], Mohamed Saran CONDE[2], Mamadou Bhoye Diallo[3], Alioune Camara[1]
[1]National Program for Malaria Control, Conakry, Guinea, [2]Catholic Relief Services, Conakry, Guinea, [3]Notre Santé / RTI, Conakry, Guinea

5097

SYSTEMATIC REVIEW AND META ANALYSIS ON PREVALENCE OF ORAL SUBMUCOUS FIBROSIS

Savitha Satish
Johns Hopkins Bloomberg School of Public Health, South Windsor, CT, United States

5098

WHO ESPEN COUNTRY HEALTH INFORMATION PLATFORM (CHIP)

Alexandre Laurent Pavluck
Sightsavers, Covington, GA, United States

5099

HEALTH AND ECONOMIC IMPACTS OF SUBSTANDARD UTEROTONICS IN GHANA AND NIGERIA

Yi-Fang (Ashley) Lee[1], Colleen R. Higgins[1], Petra Procter[2], Sara Rushwan[2], A. Metin Gülmezoglu[2], Lester Chinery[2], Sachiko Ozawa[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Concept Foundation, Geneva, Switzerland

5100

SPATIOTEMPORAL ANALYSIS OF THE RELATIVE RISK OF POST-INFECTIOUS VERSUS NON-POST-INFECTIOUS HYDROCEPHALUS AND ITS RELATIONSHIP WITH ENVIRONMENTAL FACTORS

Lucinda Hadley
Lancaster University, Lancaster, United Kingdom

5101

IS SUB-SAHARAN AFRICA READY FOR DIGITAL CLINICAL TRIALS?

Dawit Asmamaw Ejigu[1], Eyasu Makonnen[1], Thy Pham[2], Brenda Okech[3], Kristin Kristin Croucher[4], Abebaw Fekadu[1]
[1]CDT-Africa, Addis Ababa, Ethiopia, [2]Bill & Melinda Gates Foundation, Washington, WA, United States, [3]UVRI-IAVI, HIV Vaccine Program, Entebbe, Uganda, [4]6. Lightship, London, United Kingdom

5102

SPATIO-TEMPORAL OCCURRENCE, BURDEN, RISK FACTORS AND MODELLING METHODS FOR ESTIMATING SCRUB TYPHUS BURDEN FROM GLOBAL TO SUBNATIONAL RESOLUTIONS: A SYSTEMATIC REVIEW

Qian Wang[1], Tian Ma[2], Fangyu Ding[3], Kartika Saraswati[1], Benn Sartorius[4], Nicholas Philip John Day[1], Richard James Maude[1]
[1]Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, [2]Institute of Geographic Sciences and Natural Resources Research, Beijing, China, [3]Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China, [4]Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom

5103

MATHEMATICAL MODELS OF *PLASMODIUM VIVAX* MALARIA: A SYSTEMATIC REVIEW

Rachel A. Hounsell[1], Caroline Franco[1], Sheetal P. Silal[2]
[1]University of Oxford, Oxford, United Kingdom, [2]University of Cape Town, Cape Town, South Africa

5104

STRATIFICATION OF MALARIA BURDEN AND SUBNATIONAL TAILORING OF INTERVENTIONS TOWARDS TO INFORM THE DEVELOPMENT OF THE NATIONAL MALARIA ELIMINATION STRATEGIC PLAN IN GHANA

Samuel K. Oppong[1], Punam Amratia[2], Beatriz Galatas Andrade[3], Abdisalan NOOR[3], Wahjib Mohammed[1], Nana Yaw Peprah[1], Peter Gething[2], Keziah Malm[1]
[1]National Malaria Elimination Programme, Accra, Ghana, [2]Malaria Atlas Project, Telethon Kids Institute, Perth, Australia, [3]Global Malaria Programme, WHO, Geneva, Switzerland

5105

MOLECULAR BIOMARKER IDENTIFICATION IN SEASONAL CARDIOVASCULAR COMORBID DISEASES (SCCD) USING NETWORK METANALYSIS

Apoorv Gupta[1], Jaichand Patel[2], Prince Kumar[3], Kamran Manzoor Waidha[4], Arun K. Sharma[1]
[1]Department of Pharmacology, Amity Institute of Pharmacy, Amity University Haryana, Gurugram, Haryana, India, [2]Department of Genetics, Cell Biology & Anatomy, University of Nebraska Medical Centre, Omaha, NE, United States, [3]Department of CSIC, PGIMER, Chandigarh, India, [4]Reviana Innovations Pvt. Ltd,, Delhi, India

5106

THE ROLE OF BELIEFS IN MALARIA PREVENTION AND TREATMENT BEHAVIOR: ANALYSIS OF THE 2021 NIGERIA MALARIA INDICATOR SURVEY

Indrani Saran, Oladoyin Okunoren
Boston College, Chestnut Hill, MA, United States

5107

SYSTEMATIC REVIEW: MATHEMATICAL MODELLING PARAMETERS OF THE NINE WORLD HEALTH ORGANIZATION PRIORITY PATHOGENS

Gina Maria Cuomo-Dannenburg, Sabine van Elsland, Natsuko Imai, Sangeeta Bhatia, Anne Cori, Imperial College Priority Pathogen Group
Imperial College London, London, United Kingdom

5108

GEOSPATIAL MODELLING OF FEBRILE ILLNESS PREVALENCE AMONG CHILDREN AGED UNDER 5 YEARS IN UGANDA

Misaki Sasanami[1], Paddy Ssentongo[2], Camille Moeckel[2], Claudio Fronterrè[1]
[1]Lancaster University, Lancaster, United Kingdom, [2]Penn State Health Medical Center, Hershey, PA, United States

5109

THE ROLE OF COMMUNITY HEALTH WORKERS IN TREATMENT MONITORING OF RADICAL CURE FOR*P. VIVAX*MALARIA IN PAPUA, INDONESIA: A MIXED METHODS STUDY

Annisa Rahmalia[1], Enny Kenangalem[2], Liony Francisca[2], Reynold R. Ubra[3], Ric N. Price[1], Jeanne R. Poespoprodjo[2], Koen Peeters Grietens[4], Charlotte Gryseels[4]
[1]Menzies School of Health Research, Darwin, Australia, [2]Papuan Community and Health Development Foundation, Timika, Indonesia, [3]Mimika Regency Health Office, Timika, Indonesia, [4]Institute of Tropical Medicine, Antwerp, Belgium

Global Health – Other

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COVID-19 VACCINATION IN GHANA: THE DISCOURSE OF RELIGION, GENDER , PERCEIVED SAFETY OF VACCINE AND GHANAIANS' READINESS TO BE VACCINATED

Perpetual Adjoa Antobam, Alexander Kwarteng
Kwame Nkrumah University of Science and Technology, KUMASI, Ghana

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PREVALENCE, RISK FACTORS AND CONSEQUENCES OF MICROCEPHALY IN LOW- AND MIDDLE- INCOME COUNTRIES: A CALL TO ACTION FOR THE GLOBAL MATERNAL AND CHILD HEALTH COMMUNITY

Molly M. Lamb[1], Olivia Pluss[1], Kirsten Fong[1], Anna Funk[2], Amy K. Connery[3], Alison M. Colbert[3], Thomas Jaenisch[1]
[1]Colorado School of Public Health, Aurora, CO, United States, [2]University of Calgary, Calgary, AB, Canada, [3]Childrens Hospital Colorado, Aurora, CO, United States

5112

ASSESSMENT OF DIETARY HABITS AND IODINE STATUS AMONG PREGNANT WOMEN IN SOUTHERN GHANA

Nana Yaa Asiedua Appiah[1], Frank Hayford[2], Samuel Antwi-Baffour[2]
[1]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]School of Biomedical and Allied Health Science, University of Ghana, Accra, Ghana

5113

EFFECT OF PARTICIPANTS AGE AND OCCUPATION ON PERCEIVED SAFETY OF COVID-19 VACCINE AND PARTICIPANTS WILLINGNESS TO BE VACCINATED WITH COVID-19 VACCINE IN GHANA

Barbara Botwe[1], Alexander Kwarteng[2]
[1]Akenten Appiah-Menka University of Skills Training and Entrepreneurial Development, KUMASI, Ghana, [2]KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI, Ghana

5114

EVALUATION OF THE CLINICAL TRIAL OPERATION TRAINING CONDUCTED BY CENTER FOR INNOVATIVE DRUG DEVELOPMENT AND CLINICAL TRIALS FOR AFRICA

Eyasu Makonnen Eshetu
Addis Ababa University, Addis Ababa, Ethiopia

5115

THE RELATIONSHIP BETWEEN DISTANCE TO PRIMARY HEALTH CENTER, CHILD MORTALITY, AND AZITHROMYCIN MASS DISTRIBUTION IN NIGER: A SUBGROUP ANALYSIS OF THE MORDOR I CLUSTER-RANDOMIZED TRIAL

Ahmed M. Arzika[1], Dennis Chao[2], Elisabeth Root[2], Anu Mishra[2], Abdou Amza[3], Ramatou Maliki[1], Karamba Alio[1], Diallo Beidi[1], Elodie Lebas[4], Ben F. Arnold[4], Jeremy D. Keenan[4], Thomas M. Lietman[4], Kieran S. O'Brien[4]
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5116

SPILLOVER EFFECT OF AZITHROMYCIN MASS DRUG ADMINISTRATION ON ANTIMICROBIAL RESISTANCE IN NIGER

Brittany Peterson[1], Ahmed Arzika[2], Ramatou Maliki[2], Amza Abdou[3], Eric Houpt[4], Tom Lietman[1], Kieran O'Brien[1], Jeremy Keenan[1], Jie Liu[5]
[1]University of California San Francisco, San Francisco, CA, United States, [2]Centre de Recherche et Interventions en Santé Publique, Niamey, Niger, [3]Programme Nationale de Santé Oculaire, Niamey, Niger, [4]University of Virginia, Charlottesville, VA, United States, [5]Qingdao University, Qingdao, China

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TAKING BLOOD FROM CHILDREN FOR RESEARCH PURPOSES- WHAT DO PEOPLE THINK ABOUT IT? A QUALITATIVE STUDY TO EXPLORE THE FACILITATORS AND BARRIERS FROM A CLINICAL TRIAL CONDUCTED IN LALITPUR, NEPAL

Ashata Dahal
OXFORD UNIVERSITY CLINICAL RESEARCH UNIT AND UNIVERSITY OF OXFORD, PATAN, Nepal

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EPIDEMIOLOGY OF LEPROSY IDENTIFIED THROUGH ACTIVE CASE DETECTION IN SIX DISTRICTS OF NEPAL

Ram Kumar Mahato
Epidemiology and Disease Control Division, Kathmandu, Nepal

5119

ADDRESSING PROVIDERS' DISTRUST OF MALARIA RAPID DIAGNOSTIC TESTS THROUGH PEER-TO-PEER ENGAGEMENT

Eno'bong Idiong[1], Angela Acosta[2], Bolatito Aiyenigba[1], Jeroh Oghenevwogaga[1], Chika Aboh[1], Nnenna Ogbulafor[3], Foyeke Oyedokun-Adebagbo[4], Ian Tweedie[1]
[1]Breakthrough ACTION Project, Johns Hopkins Center for Communication Programs, Abuja, Nigeria, [2]Breakthrough ACTION Project, Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, [3]National Malaria Elimination Program, Abuja, Nigeria, [4]U.S. President's Malaria Initiative, USAID, Abuja, Nigeria

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LIVED EXPERIENCES AND COPING STRATEGIES ADOPTED BY ADOLESCENTS IN THE MANAGEMENT OF ONCHOCERCIASIS IN A RESOURCE LIMITED SETTING OF GHANA

Sitsofe Gbogbo, Hubert Amu, Robert Dowou, Martin Ayanore
University of Health and Allied Sciences, Ho, Ghana

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SPATIAL INEQUALITY IN CHILDHOOD IMMUNIZATION COVERAGE IN NIGERIA: A GEOSTATISTICAL APPROACH

Ezra Gayawan[1], Osafu Egbon[2], Olamide Orunmoluyi[1]
[1]Federal University of Technology, Akure, Nigeria, [2]University of Sao Paulo, Sao Carlos, Brazil

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UNDERSTANDING COVID19 VACCINE HESITANCY IN THE JOHNSONVILLE, PEPPER WULU TOWN COMMUNITY LIBERIA: A QUALITATIVE STUDY

James Douglas Sinnatwah Jr.
University of Liberia School of Public Health, Monrovia, Liberia

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AN ETHNOBOTANICAL STUDY ON MEDICINAL PLANTS USED AS ANTIDOTES FOR SNAKEBITE AND AS SNAKES REPELLENTS IN THE HAUTS BASSINS AND SOUTHWEST REGIONS OF BURKINA FASO

Rabila Bamogo[1], Achille Sindimbasba Nikièma[1], Mamounata Belem[2], Youssouph Diatta[3], Roch Kounbobr Dabiré[1]
[1]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, [2]Université de Joseph KI-ZERBO, Ouagadougou, Burkina Faso, [3]Université Cheikh Anta Diop, IFAN, Dakar, Senegal

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MIXED EFFECTS MODELS IN THE ANALYSIS OF EPSTEIN BARR VIRUS SEROLOGICAL RESPONSES IN CHILDREN FROM CHULAIMBO WESTERN KENYA

Onditi Ian Arao[1], Ariera Bonface[1], Koech Emmily[1], Waomba Kevin[1], Stella Chumbe[1], Jackson Conner[2], Samayoa-Reyes Gabriela[2], Katherine R. Sabourin[2], Sidney Ogolla[1], Rosemary Rochford[2]
[1]Center for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, KISUMU, Kenya, [2]University of Colorado, Anschutz Medical Campus, Denver, CO, USA, Denver, CO, United States

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MOLECULAR CHARACTERIZATION OF THE RHESUS D (RHD) GENE IN BLOOD DONORS WITH THE DEL PHENOTYPE AT THE NATIONAL BLOOD TRANSFUSION CENTER (CNTS) OF BAMAKO, MALI

Ramatoulaye Diallo[1], Dramane Diallo[2], Amadou Kone[2], Tenin Aminatou Coulibaly[2], Alhassane BA[1], Moussa Cisse[1], Boubacar Maiga[3]
[1]Centre National de Transfusion Sanguine, Bamako, Mali, [2]University of Clinical Research Center, Bamako, Mali, [3]Université des Sciences des Techniques et des Technologies de Bamako, Bamako, Mali

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ACADEMIC ACHIEVEMENT AMONG CHILDREN WITH SICKLE CELL ANAEMIA IN UGANDA

Shubaya K. Naggayi[1], Paul Bangirana[2], Robert O. Opoka[1], Deogratias Munube[1], Phillip Kasirye[1], Ezekiel Mupere[1], Betty Nyangoma[3], Annet Birabwa[4], Grace Nambatya[1], Maxencia Kabatabaazi[1], Ann Jacqueline Nakitende[2], Dennis Kalibbala[5], John Ssenkusu[6], Chandy C. John[7], Nancy S. Green[8], Richard Idro[1]
[1]Department of Paediatrics and Child Health, Makerere University, College of Health Sciences, Kampala, Uganda, [2]Department of Psychiatry, Makerere University, College of Health Sciences, Kampala, Uganda, [3]Makerere University, Johns Hopkins University, Research Collaboration, Kampala, Uganda, [4]Department of Mental Health and Community Psychology, Makerere University College of Humanities and Social Sciences, Kampala, Uganda, [5]Global Health Uganda, Kampala, Uganda, [6]Department of Epidemiology and Biostatistics, Makerere University College of Health Sciences, Kampala, Uganda, [7]Department of Pediatrics, Indiana University, Indiana, IN, United States, [8]Department of Pediatrics, Division of Pediatric Hematology, Oncology and Stem Cell Transplantation, Columbia University Irving Medical Center, New York, NY, United States

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HEALTH DETERMINANTS AMONG INDIVIDUALS WORKING AT AMAZONIAN GOLD MINING SITES: A MULTICENTRIC CROSS-SECTIONAL SURVEY

Maylis Douine[1], Yann Lambert[1], Lorraine Plessis[1], Irene Jimeno[1], Teddy Bardon[1], Carlotta Carboni[1], Antoine Adenis[1], Stephen Vreden[2], Martha Suarez-Mutis[3], Alice Sanna[1]
[1]Centre d'Investigation Clinique Antilles-Guyane Inserm 1424, Cayenne, French Guiana, [2]Foundation for Scientific Research, Paramaribo, Suriname, [3]Foundation Oswaldo Cruz, Rio de Janeiro, Brazil

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DXCONNECT TEST DIRECTORIES: GLOBAL IMPACT THROUGH ACCESSIBLE DATA ON DIAGNOSTIC ASSAYS

Victoria O. Aroworade, Anna Mantsoki, Stefano Ongarello, Devy Emperador, Sarah Nogaro, Sophie Crettaz, Dounia Cherkaoui, Daniel G. Bausch, Sarah-Jane Loveday, Kavi M. Ramjeet
FIND, Geneva, Switzerland

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PSYCHOSOCIAL PROBLEMS AFFECTING GIRLS IN SELECTED SCHOOLS IN POST CONFLICT LIBERIA

Juah T Karpeh
Cuttington University, Gbarnga, Liberia

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ANTHROPOMETRIC DIFFERENCES IN COMMUNITY- VERSUS CLINIC-RECRUITED INFANTS PARTICIPATING IN A TRIAL OF AZITHROMYCIN FOR PREVENTION OF INFANT MORTALITY

Mamadou Ouattara[1], Ali Sie[1], Mamadou Bountogo[1], Valentin Boudo[1], Elodie Lebas[2], Huiyu Hu[2], Benjamin F. Arnold[2], Thomas M. Lietman[2], Catherine Oldenburg[2]
[1]Centre de Recherche en Sante de Nouna, Nouna, Burkina Faso, [2]University of California, San Francisco, San Francisco, CA, United States

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VACCINE MANAGEMENT PRACTICES AMONG HEALTHCARE WORKERS IN NORTHWESTERN STATE, NIGERIA: A COMPARATIVE STUDY

Adefisoye Oluwaseun Adewole[1], Ndadilnasiya Waziri[1], Idriss Bomoi[1], Simple Edwin[1], Babatunde Amoo[1], Gideon Ugbenyo[1], Rhoda Fadahunsi[1], Elizabeth Adedire[1], Aishat Usman[2], Belinda Uba[1], Patrick Nguku[1]
[1]AFRICAN FIELD EPIDEMIOLOGY NETWORK, Abuja, Nigeria, [2]ECOWAS Regional Center for Surveillance and Disease Control, West African Health Organization, Abuja, Nigeria

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THE PREVALENCE OF UNDIAGNOSED HYPERTENSION AMONG RESIDENTS OF THE DUPORT ROAD COMMUNITY

Jeapolor Nutai Kolleh
E and J Medical Center, Ganta City, Liberia

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INTEGRATED SKIN DISEASE TRAINING IN VANUATU: PEER-SUPPORTED CAPACITY BUILDING TRANSFORMING HEALTH WORKER CONFIDENCE

George Taleo[1], Thyna Orelly[2], Fasihah Taleo[3], Isis Umbelino-Walker[1], Alan Brooks[4], Anastasia Pantelias[1], Julie Jacobson[1]
[1]Bridges to Development, Vashon, WA, United States, [2]Ministry of Helath, Port Villa, Vanuatu, [3]World Health Organization, Port Villa, Vanuatu, [4]Bridges to Development, Geneva, Switzerland

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"I BELIEVE BECAUSE THE VACCINE IS NOT COMING TODAY" - AN EXPLORATION OF THE SOCIO-BEHAVIORAL FACTORS INFLUENCING CHILDHOOD VACCINATION UPTAKE IN URBAN POOR SETTLEMENTS IN NAIROBI, KENYA

Judy Gichuki, Ben Ngoye
Strathmore University, Nairobi, Kenya

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LOW SEROPREVALENCE OF EBOLA VIRUS IN HEALTH CARE PROVIDERS IN AN ENDEMIC REGION (TSHUAPA PROVINCE) OF THE DEMOCRATIC REPUBLIC OF THE CONGO

Trésor Zola Matuvanga[1], Ynke Larivière[2], Gwen Lemey[2], Joachim Mariën[2], Bernard Osangir[3], Patrick Mitashi[4], Hypolite Muhindo-Mavoko[1], Junior Matangila[1], Junior Matangila[1], Pierre Van Damme[2], Jean-Pierre Van gertruyden[2]
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IMPROVED FACILITY BASED INTEGRATED SUPPORTIVE SUPERVISION- GAINS ON HEALTH SYSTEM STRENGTHENING IN OYO STATE

Esther Ayandipo[1], Motunrayo Fagbola[1], Tosin Orhorhamreru[1], Abimbola Olayemi[2], Olatayo Abikoye[2], Uchenna Nwokenna[2], Foluke Adeyemo[3], Olatunji Muideen[4], Gbolahan Abass[5], Arja Huestis[6], Allan Were[6], Thomas Hall[6], Veronica Momoh[7], Jules Mihigo[7]
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Japhet Chiwaula[1], Dingani Chinula[2], Ronelle Knit[3], Gift Sitenge[2], Ignatious Banda[1], Mercy Mwanza[1], Isaac Mwase[4], Celia Tusiime[2], Busiku Hamainza[1]
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EXPLORING HEALTHCARE WORKERS' PERCEPTION AND CHALLENGES TO PRACTICING EFFECTIVE INFECTION PREVENTION AND CONTROL IN TERTIARY CARE HOSPITALS: A MULTI-CENTERED STUDY IN BANGLADESH

Md Golam Dostogir Harun[1], Lisa P Oakley[2], Shariful Amin Sumon[1], Aninda Rahman[3], Syed Abul Hassan Md Abdullah[4], Md Saiful Islam[5], Ashley R Styczynski[2], S. Cornelia Kaydos-Daniels[6]
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A PHASE I STUDY TO ASSESS THE SAFETY AND IMMUNOGENICITY OF A RECOMBINANT ADENOVIRUS-BASED VACCINE AGAINST PLAGUE

Arabella S V Stuart, Natalie G. Marchevsky, Xinxue Liu, Sagida Bibi, Federica Cappuccini, Christina Dold, Andrew J. Pollard, Christine S. Rollier
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SCOPING REVIEW OF ACUTE FEBRILE ILLNESS IN WEST AFRICAN REGION, 2010-2020

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ROOT CAUSE ANALYSIS OF HEALTH SECTOR VIOLENCE IN NEPAL: A QUALITATIVE EXPLORATION OF STAKEHOLDERS' VIEWS

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A POPULATION-BASED SEROLOGICAL SURVEY OF VIBRIO CHOLERAE ANTIBODY TITERS PRIOR TO THE 2022 CHOLERA OUTBREAK IN HAITI

Christy H. Clutter[1], Molly B. Klarman[2], Youseline Cajusma[2], Emilee T. Cato[2], Md Abu Sayeed[2], Lindsey Brinkley[2], Owen Jensen[1], Chantale Baril[3], V Madsen Beau De Rochars[2], Andrew S. Azman[4], Maureen T. Long[2], Derek Cummings[2], Daniel T. Leung[1], Eric J. Nelson[2]
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ANTIBIOTIC USAGE IN LAYER FARMS: POTENTIAL ROLE IN EMERGENCE OF ANTIBIOTIC RESISTANCE

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GLOBAL PUBLIC HEALTH INTELLIGENCE: WORLD HEALTH ORGANIZATION OPERATIONAL PRACTICES

Neil J. Saad[1], Blanche Greene-Cramer[1], Adedoyin Awofisayo-Okuyelu[1], Dubravka Selenic Minet[1], Maria Almiron[2], Krista Swanson[2], Masaya Kato[3], Phiangiai Boonsuk[3], Tamano Matsui[4], Manilay Phenxay[4], Aura Corpuz[5], Jeremias Naiene[5], Jukka Pukkila[6], Silviu Ciobanu[6], Etien Koua[7], George Sie Williams[7], Oliver Morgan[8], Ibrahima Socé Fall[1], Abdi Rahman Mahamud[1], **Esther L. Hamblion**[1], on behalf of the World Health Organization Public Health Intelligence Teams[9]
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EPIDEMIOLOGICAL INVESTIGATION OF GROUPED CASES OF DEATH DUE TO POISONING WITH CLOSTRIDIUM BOTULINUM IN A VILLAGE IN CÔTE D'IVOIRE, AFRICA, DECEMBER 2022 - JANUARY 2023

Damus Paquin Kouassi, Bénié Joseph Vroh Bi, Déby Arsène Kouamé, Sory Ibrahim Soumahoro, M'Bégnan Coulibaly, Opri Irika, Fatoumata Bamba, François Brizalékou
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THE PREVALENCE AND RISK FACTORS OF PTSD SYMPTOMS AMONG NURSES DURING THE COVID-19 PANDEMIC. A SYSTEMATIC REVIEW AND META-ANALYSIS

Santiago Hernandez, Adriana Campos, Jeegan Parikh, Jason Beckstead, Marc Lajeunesse, Derek Wildman
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PERCEPTIONS OF YELLOW FEVER EMERGENCY MASS VACCINATIONS IN UGANDA: A QUALITATIVE STUDY

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ASSESSMENT OF THE AVAILABLE RESOURCES AND MEASURES TO CONTROL COVID-19 AT THE DISTRICT-LEVEL IN LIBERIA

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ANTIBODY RESPONSE TO DIFFERENT COVID-19 VACCINES AMONG THE MIGRANT WORKERS OF BANGLADESH

Md. Imam Hossain[1], Protim Sarker[1], Rubhana Raqib[1], Md Ziaur Rahman[1], Rezaul Hasan[1], Chloe K. Svezia[2], Mahbubur Rahman[1], Nuhu Amin[1]
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IMPACT OF ARTHROPODS ON THE TRANSMISSION OF DISEASES AND EPIDEMICS IN POPULATIONS WITH POOR HYGIENIC CONDITIONS AND INAPPROPRIATE BEHAVIORAL HABITS IN THEIR HOMES: CASE STUDIES ON POPULATIONS IN THE HEALTH DISTRICTS OF KINYINYA AND GISURU, NOVEMBER 2022 TO FEBRUARY 2023

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National Institute of Public Health, Bujumbura, Burundi

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RAPID, LOW-COST, AND PORTABLE LAB-IN-A-BOX 'WHITE LOTUS' FOR POINT OF CARE TESTING OF SARS-COV-2 IN LOW MIDDLE INCOME COUNTRIES

Hitendra Kumar, Yoonjung Lee, Noah Toppings, Keekyoung Kim, Dylan R. Pillai
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ASSESSMENT OF POINTS OF ENTRY, ISOLATION SITES & COUNTIES PREPAREDNESS & RESPONSE TO EBOLA VIRAL DISEASE OCTOBER 2022, KENYA

Oscar Adidi Gaunya[1], James Marcomic Maraga[1], Stephen Antony Okumu[2], Maurice Owiny[3], Fredrick Odhiambo[3], Ahmed Abade[4], Josephine Githaiga[5], Emmanuel Okunga[6], Samuel Kadivane[6], Mitchel Sagala[7]
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SEROPREVALENCE AND RISK FACTORS ASSOCIATED WITH BRUCELLOSIS AMONGST LIVESTOCK AT KITENGULE RANCH IN KAGERA, TANZANIA

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STRATEGIES AND POLICIES FOR SUSTAINABLE PATHOGEN GENOMIC SURVEILLANCE IN AFRICA: PRIORITIES, PROGRESS, AND CHALLENGES

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A STUDY ON KNOWLEDGE, ATTITUDE AND PRACTICE (KAP) ON YELLOW FEVER AMONG COMMUNITY MEMBERS IN FOUR DISTRICTS AFTER AN OUTBREAK IN THE SAVANNAH REGION, GHANA

Millicent Captain-Esoah[1], Kwadwo K. Frempong[2], Chrysantus Kubio[3], Iddrisu Fuseini[4], Ishmael T. Alhassan[1], Enock Arthur[1], Matthew Gabienu[1], Abigail Mahama[1], Gloria Y. Deku[1], Daniel A. Boakye[2], Samuel K. Dadzie[2]
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COMMUNITY ENGAGEMENT IN A NEW TRIAL SITE OF THE PARTNERSHIP FOR RESEARCH ON EBOLA VACCINATION IN MALI

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Neudy Rojop[1], Diva M Calvimontes[1], Edgar Barrios[1], Molly M. Lamb[2], Alejandra Paniagua-Avila[3], Jose C. Carlos[4], Lindsey M. Duca[4], Chelsea .. Iwamoto[4], Anna N. Chard[4], Melissa Gomez[1], Kareen Arias[1], Guillermo A. Bolanos[1], Emily .. Zielinski-Gutierrez[4], Eduardo .. Azziz-Baumgartner[4], Maria R. Lopez[5], Celia Cordon-Rosales[5], Edwin J. Asturias[6], Daniel Olson[6]
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DESCRIPTION OF AN ACTIVE SURVEILLANCE SYSTEM CONDUCTED IN OUTPATIENT CLINICS FOR PRIORITY ACUTE INFECTION SYNDROMES IN GUATEMALA

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STRENGTHENING HEALTH SYSTEMS FUNDAMENTALS CAN PROTECT COUNTRIES FROM COVID-19: A RE-EVALUATION OF THE GLOBAL HEALTH SECURITY INDEX (GHSI) AND ITS SUB-DIMENSIONS

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THE SYNERGISTIC IMPACT OF UNIVERSAL HEALTH COVERAGE AND GLOBAL HEALTH SECURITY ON HEALTH SERVICE DELIVERY DURING THE COVID-19 PANDEMIC: A DIFFERENCE-IN-DIFFERENCE-IN-DIFFERENCE STUDY OF CHILDHOOD IMMUNIZATION COVERAGE FROM 192 COUNTRIES

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WASTEWATER GENOMIC SURVEILLANCE AS AN APPROACH TO TRACK INFECTIOUS DISEASES PATHOGENS IN THE AGADIR REGION OF MOROCCO

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THE VIRTUAL BIOREPOSITORY SYSTEM FOR OPEN ACCESS TO SAMPLES: THE ONLINE DELPHI PRIORITIZATION OUTCOME

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THE VIROME OF PHLEBOTOMINE SAND FLIES FROM SELECT REGIONS OF KENYA

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SYSTEMATIC REVIEW ON TICKS AND TICK-BORNE DISEASES IN ASIA AND AUSTRALIA

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MITE-TRANSMITTED INFECTIOUS DISEASES: WIDELY DISTRIBUTED AND NEGLECTED

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POPULATIONS STRUCTURE ANALYSIS OF P. PAPATASI POPULATIONS USING TRANSCRIPTOMEMICROSATELLITES: POSSIBLE IMPLICATIONS ON GENE EXPRESSION

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RELATIONSHIP BETWEEN ENVIRONMENTAL FACTORS AND PHYSICO-CHEMICAL PARAMETERS IN THE DISTRIBUTION AND DENSITY OF MOLLUSC INTERMEDIATE HOSTS OF SCHISTOSOMIASIS IN SENEGAL

Cheikh Binetou Fall, Sylla Khadime, Soulèye Lelo, Isaac Manga, Roger Tine, Magatte Ndiaye, Doudou Sow, Babacar Faye
University Cheikh Anta Diop, Dakar, Senegal

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FIRST RECORD OF MOSQUITO BORNE SINDBIS VIRUS <GENOTYPE I> IN BURKINA FASO, WEST AFRICA

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CHANGING EPIDEMIOLOGICAL PATTERN OF VISCERAL LEISHMANIASIS IN NEPAL

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BEHAVIORAL INTERACTIONS OF BED BUGS WITH LONG-LASTING PYRETHROID-TREATED BED NETS: CHALLENGES FOR VECTOR CONTROL

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ISOLATION OF MICROSATELLITE LOCI FROM THE GENOME OF PHLEBOTOMUS ARGENTIPES, THE MAJOR VECTOR OF LEISHMANIASIS IN SRI LANKA: A PRELIMINARY STUDY

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(ACMCIP Abstract)

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SPECIES COMPOSITION, ACARICIDE RESISTANCE IN AMBLYOMMA VARIEGATUM TICK SPECIES AND KNOWLEDGE, ATTITUDE, AND PRACTICES OF LIVESTOCK OWNERS IN DIFFERENT ECOLOGICAL ZONES OF GHANA

Jane Ansah-Owusu[1], Christopher Tawiah-Mensah[1], Seth Offei Addo[1], John Arko-Mensah[2], Jewelna Akorli[1], Samuel Dadzie[1]
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PHLEBOTOMINE SANDFLY SPECIES FROM OLD AND NEW LEISHMANIASIS FOCI OF COLOMBIA

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NATION-WIDE VECTOR SURVEILLANCE OF CHAGAS DISEASE IN EL SALVADOR, 2018-2020

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EVOLUTION OF INSECTICIDE RESISTANCE OF AN. GAMBIAE SENSU LATO AND AN. FUNESTUS SENSU LATO IN WESTERN KENYA FROM THE YEARS OF 2019-2022

Elizabeth Ayoma[1], Celestine Wekesa[1], Benjamin Otieno[1], Amos Webale[1], Alphonce Owino[1], Edward Esalimba[1], Daisy Abongo[1], Solomon Karoki[2], Ismail Abbey[2], Lenson Kariuki[2], Charles Chege[2], John E. Gimnig[3], Daniel Wacira[4], Mildred Shieshia[4], Charity Ngaruro[5], Rodaly Muthoni[1], Matthew Kirby[5], Evelyn Olanga[1], Sheila B. Ogoma[5]
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PHENOTYPIC AND MOLECULAR ASSAYS CONFIRM PUTATIVE PYRETHROID RESISTANCE IN *ANOPHELES* ALBIMANUS IN MALARIA ELIMINATION SETTINGS IN HONDURAS

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THE GENOMICS BEHIND INSECTICIDE RESISTANCE IN *ANOPHELES* MOSQUITOES FROM THE BIJAGÓS ARCHIPELAGO

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PROFILING OF INSECTICIDE RESISTANCE, MICROBIOME AND PATHOGEN PREVALENCE IN *AEDES AEGYPTI* IN PUERTO RICO

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EVALUATION OF THE SUSCEPTIBILITY OF *ANOPHELES* FUNESTUS POPULATIONS IN THE CENTRE, CENTRE-WEST AND SOUTH-WEST REGIONS OF BURKINA FASO

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MONITORING INSECTICIDE RESISTANCE STATUS OF *AEDES AEGYPTI* & AEDES ALBOPICTUS POPULATIONS IN FIVE LOCAL GOVERNMENT AREAS IN LAGOS STATE, NIGERIA

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INSECTICIDE RESISTANCE SPECTRUM AND PREVALENCE OF L1014F KDR TYPE MUTATION IN *ANOPHELES GAMBIAE* S.L. [DIPTERA: CULICIDAE, GILES 1902] IN ABIA STATE, NIGERIA

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EPITHELIAL NITRATION RESPONSE TO *PLASMODIUM FALCIPARUM* IN INSECTICIDE RESISTANT *ANOPHELES* COLUZZII MOSQUITOES

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(ACMCIP Abstract)

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BREEDING WATER EFFECT ON *ANOPHELES GAMBIAE* SENSU LATO INSECTICIDE SUSCEPTIBILITY DURING LABORATORY COLONIZATION

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NATIONWIDE ASSESSMENT OF MALARIA VECTOR SUSCEPTIBILITY TO CHLORFENAPYR, PYRIPROXYFEN, AND ALPHA-CYPERMETHRIN IN PREPARATION FOR WIDESCALE DEPLOYMENT OF NEW GENERATION NETS (INTERCEPTOR® G2 AND ROYAL GUARD®) IN BENIN

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ANOPHELES GAMBIAE S.L. KNOCKDOWN RESISTANT MUTANT ALLELES AND SUSCEPTIBILITY TO INSECTICIDES IN 3 SENTINEL SITES OF ZIMBABWE

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IDENTIFICATION AND INSECTICIDE RESISTANCE PROFILE OF *ANOPHELES* AZEVEDOI (RIBEIRO, 1969) IN LUANDA PROVINCE, ANGOLA: IMPLICATIONS FOR VECTOR CONTROL

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MONITORING PYRETHROID RESISTANCE INTENSITY IN POPULATIONS OF *ANOPHELES GAMBIAE* S.L. ACROSS FIVE ECOLOGICAL ZONES IN NIGERIA AND THE IMPLICATIONS FOR VECTOR CONTROL DECISIONS

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HIGH ENTOMOLOGICAL INOCULATION RATE OF AN. COUSTANI IN THE MALARIA ELIMINATION SETTINGS OF DEMBIYA DISTRICT, NORTH-WESTERN ETHIOPIA

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NATURAL INFECTION OF NY. DARLINGI AND NY. BENARROCHI B WITH *PLASMODIUM* DURING THE DRY SEASON IN THE UNDERSTUDIED LOW TRANSMISSION SETTING OF DATEM DEL MARAÑON PROVINCE, AMAZONIAN PERU

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HOUSES IMPROVING AS A SUPPLEMENTAL INTERVENTION TOOLS FOR REDUCING INDOOR VECTOR DENSITIES AND MALARIA PREVALENCE IN EMANA, CENTER CAMEROON

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SPATIO-TEMPORAL DISTRIBUTION OF AEDES SPECIES (DIPTERA: CULICIDAE) IN FOUR LOCAL GOVERNMENT AREAS IN LAGOS STATE, NIGERIA

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RESIDUAL MALARIA TRANSMISSION AND THE ROLE OF *ANOPHELES* ARABIENSIS AND *ANOPHELES* MELAS IN CENTRAL SENEGAL

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TOWARDS ENVIRONMENTAL SURVEILLANCE OF THE INVASIVE VECTOR SPECIES ANOPHELES STEPHENSI IN SUB-SAHARAN AFRICA

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DIFFERENTIAL RISK OF EXPOSURE TO AN. GAMBIAE S.L. AND AN. FUNESTUS S.L. BITING ESTIMATED FROM HUMAN BEHAVIOR OBSERVATION ADJUSTED ANALYSIS IN MALAWI

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ENTOMOLOGICAL AND MOLECULAR SURVEILLANCE OF MALARIA VECTORS IN A RURAL COMMUNITY IN BENGUELA, ANGOLA: IMPLICATIONS FOR LONG-LASTING INSECTICIDE TREATED NET (LLIN) DISTRIBUTION AND VECTOR CONTROL STRATEGIES

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COMPOSITION AND SEASONALITY OF *ANOPHELES GAMBIAE* S.L. AND *ANOPHELES* FUNESTUS S.L. IN LIBERIA

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THE IMPACT OF FOUR YEARS OF INDOOR RESIDUAL SPRAYING WITH PIRIMIPHOS METHYL AND CLOTHIANIDIN ON ENTOMOLOGICAL DRIVERS OF MALARIA TRANSMISSION IN BURKINA FASO, WEST AFRICA

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CIRCUMSPOROZOITE POSITIVE *ANOPHELES* LONGIPALPIS C MOSQUITO IDENTIFIED IN ZIMBABWE

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RESURGENCE OF MALARIA IN UGANDA COINCIDES WITH AN INCREASE IN ABUNDANCE OF *ANOPHELES* FUNESTUS WITH EVIDENCE OF VARIATION IN SUSCEPTIBILITY TO CLOTHIANIDIN

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IMPACT OF ENVIRONMENTAL MODIFICATION ON THE DYNAMICS, BEHAVIOR, TRANSMISSION RISK AND INSECTICIDE RESISTANCE OF MALARIA VECTORS: THE CASE OF ARJO-DIDESSA SUGARCANE IRRIGATION SCHEME, SOUTHWESTERN ETHIOPIA

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DISTRIBUTION OF *ANOPHELES* MOSQUITOES AND THEIR ROLE IN MALARIA TRANSMISSION IN SOUTHWESTERN ETHIOPIA

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UPDATED ASSESSMENT OF *ANOPHELES* STEPHENSI PRESENCE IN SOUTHERN YEMEN

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CHANGES IN THE BITING BEHAVIOR OF *ANOPHELES GAMBIAE* S.L. FOLLOWING THE COMBINATION OF MASS-DISTRIBUTION CAMPAIGNS OF INSECTICIDE-TREATED NETS AND INDOOR RESIDUAL SPRAYING OVER FIVE YEARS IN KIREMBA, NORTHERN BURUNDI

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SURVEILLANCE OF AEDES-BORNE ARBOVIRUSES IN SELECTED SITES IN THE SAVANNA REGION OF GHANA

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PILOTING THE USE OF TRANSFLUTHRIN-TREATED EAVE RIBBONS AS A SUPPORTING VECTOR CONTROL TOOL IN A HIGH TRANSMISSION SETTING IN ZAMBIA

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TREATED EAVE SCREENS IN COMBINATION WITH SCREENED DOORS AND WINDOWS, ARE MORE EFFECTIVE THAN UNTREATED EAVE SCREENS IN A SIMILAR COMBINATION IN REDUCING INDOOR AND OUTDOOR *ANOPHELES* POPULATIONS UNDER SEMI-FILED CONDITIONS IN WESTERN KENYA

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IMPACT OF LIVESTOCK MANAGEMENT ON MALARIA TRANSMISSION RISKS IN RURAL TANZANIA

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WOLBACHIA-INFECTED *AEDES AEGYPTI* TO CONTROL DENGUE IN DHAKA, BANGLADESH

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3D-SCREENS FOR SUSTAINABLE MALARIA CONTROL: OUTCOMES OF PHASE II SEMI-FIELD EVALUATION AND STUDY DESIGN OF A LARGE-SCALE PHASE III EVALUATION IN NORTHEASTERN TANZANIA

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EVIDENCE OF TRANSMISSION OF *PLASMODIUM VIVAX* 210AND *PLASMODIUM VIVAX* 247 BY *ANOPHELES* GAMBIAE ANDAN.COLUZZII MAJOR MALARIA VECTORS IN BENIN

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MOSQUITOCIDAL ACTIVITY OF IVERMECTIN-TREATED NETTINGS AND SPRAYED WALLS ON *ANOPHELES GAMBIAE*

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IN SILICO ANALYSIS AND DESIGN OF A MOLECULAR CONSTRUCT TO TARGET THE BETA TUBULIN2 GENE IN *ANOPHELES GAMBIAE*

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IDENTIFICATION OF ODORANT CO-RECEPTOR GENE IN *ANOPHELES GAMBIAE* AND IN SILICO DESIGN OF STRATEGIES TO STUDY ITS FUNCTION IN A VECTOR CONTROL PERSPECTIVE

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MARK RELEASE RECAPTURE EXPERIMENT IN BURKINA FASO DEMONSTRATES REDUCED FITNESS AND DISPERSAL OF GENETICALLY-MODIFIED STERILE MALARIA MOSQUITOES

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DENGUE VECTOR HABITAT CREATION IN PUBLIC PLACES: AN UNINTENDED CONSEQUENCE OF THE INSTALLATION OF PUBLIC HANDWASHING STATIONS FOR COVID-19 PREVENTION IN OUAGADOUGOU, BURKINA FASO 2020

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RETHINKING ITN DISTRIBUTION: A REVIEW OF CURRENT DISTRIBUTIONS SYSTEMS, COSTINGS AND CHALLENGES

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ASSESSING INSECTICIDE RESISTANCE IN TWO MALE-BIASED *ANOPHELES GAMBIAE* S.L. TRANSGENIC STRAINS

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ASSESSING VECTOR COMPETENCE FOR *PLASMODIUM FALCIPARUM* AND O'NYONG-NYONG VIRUS IN A MALE-BIASED *ANOPHELES* COLUZZII TRANSGENIC STRAIN

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MOLECULAR AND BIOINFORMATIC CHARACTERIZATION OF THE INTROGRESSION OF A MALE-BIASED TRANSGENE INTO A UGANDAN LOCAL WILD-TYPE STRAIN

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MARK, RELEASE AND RECAPTURE EXPERIMENT OF A LABORATORY STRAIN OF *ANOPHELES* COLUZZII IN TWO VILLAGES IN MALI

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MOLECULAR STRATEGIES TO DEPLOY SINGLET OXYGEN AS AN UNASSAILABLE BIOCIDE FOR DISEASE PREVENTION AND VECTOR CONTROL

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DISCOVERING NATURAL PRODUCT CHEMISTRIES FOR VECTOR CONTROL

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IMPACT OF USING DIFFERENT TYPES OF MOSQUITO TRAPS TO ASSESS ENTOMOLOGICAL EFFICACY OF DUAL-ACTIVE INGREDIENT LONG-LASTING INSECTICIDAL NETS (LLINS) IN BENIN

Boulais Yovogan[1], Arthur Sovi[2], Constantin Adoha[1], Bruno Akinro[1], Manfred Accrombessi[2], Razaki Ossè[1], Gil Padonou[1], Louisa Messenger[3], Armel Djènontin[1], Clément Agbangla[4], Corine Ngufor[2], Jackie Cook[2], Natacha Protopopoff[2], Martin Akogbéto[1]
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EFFICACY OF PYRETHROID-PYRIPROXYFEN AND PYRETHROID-CHLORFENAPYR LONG-LASTING IMPREGNATED NETS (LLINS) FOR THE CONTROL OF NON-*ANOPHELES* MOSQUITOES: SECONDARY ANALYSIS FROM A CLUSTER RANDOMIZED CONTROLLED TRIAL (CRT)

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EFFICACY OF PIRIKOOL® 300 CS USED FOR INDOOR RESIDUAL SPRAYING ON THREE DIFFERENT SUBSTRATES IN SEMI-FIELD EXPERIMENTAL CONDITIONS

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MEASUREMENT OF OOCYST AND SPOROZOITE INFECTION RATES IN AN. GAMBIAE S.L. UNDER NATURAL CONDITIONS IN BANCOUMANA, MALI

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EVALUATING MOSQUITO BEHAVIOR DURING EXPOSURE TO DIFFERENT INSECTICIDE-TREATED NETS (ITNS) USING VIDEO CONE TEST (VCT)

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KEY ENTOMOLOGICAL AND MALARIA INDICATORS DURING THE PERIODS OF INDOOR RESIDUAL SPRAYING WITH PIRIMIPHOS-METHYL AND CLOTHIANIDIN-BASED PRODUCTS IN ZAMBIA

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MOSQUITO TRAPPING BEDNET (T-NET) FOR INSECTICIDE RESISTANCE MANAGEMENT AND MALARIA CONTROL

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VALIDATION OF A METHOD FOR DRY PRESERVATION AND REHYDRATION OF AN. GAMBIAE SENSE LATO FOR PARITY ANALYSIS TO ASSESS IMPACT OF VECTOR CONTROL MEASURES IN THE FIELD

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IN SILICO DESIGN OF MOLECULAR MODEL TO STUDY THE SIFAMIDE GENE FUNCTION IN *ANOPHELES GAMBIAE* OLFACTORY SYSTEM, IN A PERSPECTIVE OF GENETIC CONTROL OF THE VECTOR

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(ACMCIP Abstract)

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A SEMI-FIELD EVALUATION OF THE USE OF HUMAN LANDING CATCHES (HLC) VERSUS HUMAN-BAITED DOUBLE NET TRAP (HDN) FOR ASSESSING THE IMPACT OF A VOLATILE PYRETHROID SPATIAL REPELLENT AND PYRETHROID-TREATED CLOTHING ON *ANOPHELES* MINIMUS LANDING

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FIRST EVIDENCE OF THE PRESENCE OF THE WOLBACHIA AND MICROSPORIDIES MBITA IN NATURALS POPULATIONS OF *ANOPHELES GAMBIAE* IN SOUTH OF BENIN

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LABORATORY AND SEMI-FIELD EVALUATION OF BIO-EFFICACY AND PHYSICAL INTEGRITY OF OLYSET PLUS AND INTERCEPTOR G2 NETS AFTER 3 YEARS OF FIELD USE IN TANZANIA

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CRYOPRESERVATION AND THE OPTIMIZATION OF THE DEVELOPMENT OF WOLBACHIA IN THE CULEX PIPIENS MOSQUITO CELLS

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HOST-FEEDING PREFERENCES AND TEMPERATURE SHAPE THE DYNAMICS OF WEST NILE VIRUS: A MATHEMATICAL MODEL ENDEAVOR

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CHARACTERIZATION OFANOPHELINESWARMS DURING THE DRY SEASON ALONG THE NIGER RIVER, MALI

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Ectoparasite-Borne Disease - Babesiosis and Lyme Disease

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PREVALENCE OF BORRELIA BURGDORFERI SENSU LATO-INFECTED IXODES SCAPULARIS TICKS IN THE UNITED STATES AND CANADA: A COMPREHENSIVE REVIEW

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THE POSSIBLE MICROBIAL ETIOLOGY OF ALZHEIMER'S DISEASE AND RELATED DEMENTIA

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EXAMINING THE ROLE OF NYMPHAL IXODES IN THE TRANSMISSION OF B. BURGDORFERI TO DOGS

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Ectoparasite-Borne Disease - Other

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MULTI-DRUG THERAPY IS REQUIRED TO EFFECTIVELY TREAT BARTONELLA INFECTION IN DIFFERENT ENVIRONMENTS

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DIVERSITY AND DNA BARCODING OF IXODIDAE AND ARGASIDAE TICKS IN THE US-MEXICO BORDER REGION OF THE MUNICIPALITY OF JUAREZ, CHIHUAHUA

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KNOWLEDGE, ATTITUDES, AND PRACTICES OF PARA-VETS ABOUT TICKS AND TICK-BORNE DISEASES IN PAKISTAN

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BODY LICE PATHOGEN SURVEILLANCE AMONG INDIVIDUALS EXPERIENCING HOMELESSNESS IN WINNIPEG, CANADA 2020-2021

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TICK AND TICK-BORNE DISEASE KNOWLEDGE ACROSS FRONTLINE GROUPS: A KNOWLEDGE, ATTITUDES, AND PRACTICES META-COMPARISON

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IDENTIFICATION OF PULEX IRRITANS VERTEBRATE HOSTS IN PLAGUE-ENDEMIC AREAS OF MADAGASCAR USING MULTIPLEX POLYMERASE CHAIN REACTION

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SPATIAL DISTRIBUTION AND MOLECULAR DETECTION OF RICKETTSIA SPP. IN RAT FLEAS IN MADAGASCAR

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STATUS EPILEPTICUS AND MULTIORGAN INJURY IN A PATIENT WITH MURINE TYPHUS

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MOLECULAR DETECTION, CYTOLOGICAL CHARACTERIZATION, AND GENETIC HETEROGENEITY OF 16S RDNA OF HEMOTROPIC MYCOPLASMAS IN POPULATIONS OF SMALL MAMMALS IN TWO STATES OF BRAZIL

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(ACMCIP ABSTRACT)

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VIRAL AND BACTERIAL SEQUENCING OF FEBRILE PATIENT PLASMA REVEALS HIGH PREVALENCE OF TICK-BORNE BACTERIAL PATHOGENS IN THIÈS, SENEGAL

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SPOTLIGHT REPORT: HISTORIC TICK SURVEILLANCE OF SIERRA LEONE

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Viruses - Emerging Viral Diseases

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SARS COV 2 INFECTION AND RISK FACTORS AMONG HEALTH WORKERS IN BAMAKO, MALI: A LONGITUDINAL STUDY

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IMMUNE CROSSED REACTIVITY BETWEEN SARSCOV2 AND PFALCIPARUM ANTIGENS IN SERA FROM COVID19 PATIENTS AND PRECOVID19 DONORS IN MALI WEST AFRICA

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(ACMCIP Abstract)

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DEVELOPMENT OF A DIAGNOSTIC IGM-ANTIBODY CAPTURE ELISA FOR DETECTION OF ANTI-CACHE VALLEY VIRUS HUMAN IGM

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USING REGIONAL SERO-EPIDEMIOLOGY SARS-COV-2 ANTI-S ANTIBODIES IN THE DOMINICAN REPUBLIC TO INFORM TARGETED PUBLIC HEALTH RESPONSE

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DENGUE FEVER OUTBREAK AT THE KENYAN SOUTH COAST INVOLVING SEROTYPE 3, GENOTYPES III AND V

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DEVELOPMENT OF A DNA HYBRIDIZATION PROBE-BASED SURVEILLANCE ASSAY FOR DETECTION OF ARBOVIRUSES IN ARTHROPOD POOLS

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COLORIMETRIC RT-LAMP ASSAY FOR DETECTION OF LA CROSSE VIRUS IN ARTHROPOD POOLS

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HIGH TRANSMISSION OF ENDEMIC HUMAN CORONAVIRUSES DURING THE COVID-19 PANDEMIC IN ADOLESCENTS IN CEBU, PHILIPPINES

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IDENTIFICATION OF IMMUNODOMINANT B AND T-CELL EPITOPES OF KYASANUR FOREST DISEASE VIRUS AND THEIR EXPRESSION FOR DEVELOPING RAPID DIAGNOSTICS AND POTENT SUBUNIT VACCINE

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A COHORT-BASED PILOT STUDY OF DETECTION OF LASSA VIRUS INTO THE ODONTOGENIC FIBROUS TUMOR IN KINSHASA, DEMOCRATIC REPUBLIC OF CONGO

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SEVERE FEVER WITH THROMBOCYTOPENIA SYNDROME VIRUS: AN UNDIAGNOSED EMERGING VIRAL INFECTION IN THAILAND

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SPATIO TEMPORAL DYNAMICS OF MEASLES IN THE PROVINCE OF WESTERN KASAI IN DEMOCRATIC REPUPLIQUE OF CONGO FROM 2000 TO 2014

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CLINICAL PRESENTATION AND LABORATORY ABNORMALITIES AMONG DENGUE SEROPOSITIVE AND SERONEGATIVE FEBRILE NIGERIAN ADULTS

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OROPOUCHE VIRUS AS AN EMERGING CAUSE OF ACUTE FEBRILE ILLNESS IN COLOMBIA

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IMPACT OF SARS-COV-2 VARIANTS AND VIRAL LOAD DYNAMICS ON SEVERE COVID-19 AND MORTALITY IN HOSPITALIZED KENYAN ADULT PATIENTS

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DEVELOPMENT OF A FULLY AUTOMATED PCR ASSAY FOR THE DETECTION OF MPOX VIRUS

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THE ECONOMIC BURDEN OF ILLNESS (BOI) OF THE GLOBALLY SPREADING CHIKUNGUNYA VIRUS (CHIKV): A SYSTEMATIC LITERATURE REVIEW (SLR)

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DEVELOPMENT OF AN INTERDISCIPLINARY, MULTIAGENCY COLLABORATION TO COORDINATE LOCAL RAPID RESPONSES TO DENGUE CASE CLUSTERS IDENTIFIED AND MONITORED THROUGH UNIFIED VECTOR AND HUMAN SURVEILLANCE — PUERTO RICO, JANUARY 2021-2023

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CORRELATION OF DENGUE TRENDS BETWEEN SENTINEL AND PASSIVE SURVEILLANCE SYSTEMS IN PUERTO RICO, 2012 - 2022

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COMMUNITY - BASED SERO - PREVALENCE OF CHIKUNGUNYA AND YELLOW FEVER IN THE SOUTH OMO VALLEY OF SOUTHERN ETHIOPIA

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SUPERSPREADING OF SARS-COV-2: A SYSTEMATIC REVIEW AND META-ANALYSIS

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VIRAL ETIOLOGY OF LOWER RESPIRATORY TRACT INFECTIONS IN CHILDREN <5 YEARS OF AGE IN ETHIOPIA: A PROSPECTIVE CASE-CONTROL STUDY

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(ACMCIP Abstract)

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SEROPREVALENCE OF DENGUE, CHIKUNGUNYA AND ZIKA AT THE EPICENTER OF THE CONGENITAL MICROCEPHALY EPIDEMIC IN NORTHEAST BRAZIL: A POPULATION-BASED SURVEY

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INVESTIGATION OF THE MEASLES OUTBREAK IN DJIBOUTI

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SEROPREVALENCE OF SARS-COV-2 NEUTRALISING ANTIBODIES AMONG TRAVELERS ENTERING GHANA THROUGH THE MAJOR LAND BORDERS,2022

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ELIMINATION OF HEPATITIS B VIRUS USING ANTIVIRAL PROPHYLAXIS AND VACCINATION IN REMOTE SETTINGS THROUGH LOCALLY ADAPTED, INTEGRATED SERVICES: A MATHEMATICAL MODEL

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THE EPIDEMIOLOGY OF INFLUENZA B VIRUS IN GHANA, 2017 TO 2021

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A PROPOSAL FOR UTILIZATION OF PREGNANCY AS AN OPPORTUNITY FOR HCV ELIMINATION AND ERADICATION

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ASSESSING JAPANESE ENCEPHALITIS VIRUS RISK IN ASIA USING HIGH-RESOLUTION REMOTELY SENSED DATA AND MACHINE LEARNING

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INVESTIGATION OF SEVERE DENGUE OUTBREAK IN MAUMERE, EAST NUSA TENGGARA, INDONESIA IN 2020: CLINICAL, SEROLOGY, AND VIROLOGICAL FEATURES

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PREVALENCE OF ANTI-VZV AMONG SAMPLE OF MEDICAL UNDERGRADUATES IN SRI LANKA: EXPLORING THE VALUE OF 'RECALLED HISTORY OF CHICKENPOX' AS AN INDICATOR OF IMMUNITY

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HIGH RISK OF DENGUE AND CHIKUNGUNYA VIRUS FOUND AMONGST CHILDREN LIVING IN INFORMAL URBAN SETTLEMENTS IN MAKASSAR, INDONESIA

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GENOMIC CHARACTERIZATION OF SARS-COV-2 FROM AN INDIGENOUS RESERVE IN MATO GROSSO DO SUL, BRAZIL

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METAGENOMIC SEQUENCING REVEALS EXTENSIVE DIVERSITY OF RNA VIRUSES IN WESTERN AUSTRALIAN MOSQUITOES

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GENETIC CHARACTERIZATION OF INFLUENZA AND SARS-COV-2 IN DOD BENEFICIARIES DURING THE 2021-2022 SEASON

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A UNIQUE AMPLICON SEQUENCING TECHNOLOGY FOR INFECTIOUS DISEASE: LONG AND SHORT-READ SOLUTIONS

Andrea Spencer, Tiffany Stedtfeld, Cayley Higbee, Mollie Schubert, Jessica Woodley, Shengyao Chen, Thomas Osborne, Jordan RoseFigura, Laurie Kurihara

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RE-EMERGENCE OF COSMOPOLITAN GENOTYPE OF DENGUE VIRUS SEROTYPE 2 IN SOUTHERN VIETNAM

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DENGUESEQ: DEVELOPMENT AND VALIDATION OF A PAN-SEROTYPE WHOLE GENOME AMPLICON SEQUENCING APPROACH FOR DENGUE VIRUS

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EVOLUTION AND CIRCULATION OF SARS COV2 OMICRON SUBVARIANTS IN ODISHA STATE, INDIA, NOVEMBER 2021 TO NOVEMBER 2022

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DEVELOPING A DENGUE VIRUS LINEAGE CLASSIFICATION SYSTEM TO IMPROVE GENOMIC SURVEILLANCE

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IDENTIFICATION OF GENES INVOLVED IN THE TYPE-I INTERFERON RESPONSE ELICITED BY THE LIVE-ATTENUATED JAPANESE ENCEPHALITIS VIRUS SA14-14-2 VACCINE

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DOES TIME MATTER IN EBOLAVIRUS (EBOV) RESURGENCE? ELUCIDATING TIMEFRAME REQUIRED FOR REACTIVATION OF EBOV WITHIN HUMAN SURVIVORS AND BATS POPULATION

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MOLECULAR PHYLOGENY AND SEROTYPE DISTRIBUTION OF DENGUE VIRUS IN THE PHILIPPINES, 2015-2022

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PERSISTENCE OF SERUM IGM ANTIBODIES ANTI-CHIKUNGUNYA VIRUS FOR MORE THAN 24 MONTHS AFTER THE ONSET OF ACUTE SYMPTOMS

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CROSS-SECTIONAL EVALUATION OF ANTI-SARS-COV-2 ANTIBODY RESPONSE TO AZD1222 RECOMBINANT VACCINE DEPLOYMENT IN THE BONO REGION, GHANA

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TO MODULATE OR NOT TO MODULATE: INCREASING IMMUNOGENICITY AND REDUCING IMMUNE EVASION OF SARS-COV-2 VIA NEXT GENERATION VACCINES

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SEROPREVALENCE OF HUMAN CORONAVIRUSES IN PEDIATRIC SAMPLES COLLECTED BEFORE COVID-19 PANDEMIC IN THE PHILIPPINES AND JAPAN

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ASSESSING THE ROLE OF NON-NEUTRALIZING ANTIBODIES IN ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY OF DENGUE VIRUS INFECTED CELLS

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MODULATION OF COMPLEMENT REGULATORY MOLECULES IN INFECTED AND BYSTANDER CELLS DURING DENGUE VIRUS INFECTION

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THE DIFFERENTIATION OF TREG AND TH17 CELLS IN PATIENTS WITH CHRONIC HEPATITIS B IN DIFFERENT STAGES

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INDIRECT IGG ELISA AND SEROTYPE-SPECIFIC NEUTRALIZING ANTIBODY TITERS ARE ASSOCIATED WITH DENGUE IN CHILDREN IN CEBU, PHILIPPINES

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DETECTION OF ENVELOPE-DIMER EPITOPE-LIKE BROADLY PROTECTIVE ANTIBODIES IN DENGUE-IMMUNE CHILDREN IN THE PHILIPPINES FOLLOWING VACCINATION AND NATURAL INFECTION

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(ACMCIP Abstract)

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THE MAGNITUDE AND QUALITY OF NEUTRALIZING ANTIBODIES CORRELATE WITH PROTECTION AGAINST SYMPTOMATIC DENGUE VIRUS INFECTION AND DIFFER BY SEROTYPE, IMMUNE STATUS, AND ASSAY CONDITION

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NEUTRALIZING IGM CONTRIBUTE SUBSTANTIALLY TO BOTH PRIMARY AND SECONDARY DENGUE SEROTYPE 1 IMMUNITY

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TYPE-SPECIFIC ENVELOPE-DOMAIN EPITOPES OF NEUTRALIZING ANTIBODIES AFTER PRIMARY DENV2: SUMMARY OF FINDINGS FROM NATURAL INFECTION, HUMAN CHALLENGE MODELS, AND YOUNGER AND OLDER CHILDREN FROM A PEDIATRIC OBSERVATIONAL COHORT

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NEUTRALIZING ANTIBODY TITERS DIFFER BY STRAIN AND MATURATION STATE AMONG MULTITYPIC CHILDREN IN THE PHILIPPINES

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LINKING MULTIPLE SEROLOGICAL ASSAYS TO INFER DENGUE INFECTION HISTORY ACROSS PAIRED SAMPLES USING MIXTURE MODELS

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CIRCULATORY T FOLLICULAR HELPER CELL & MEMORY B CELL FREQUENCIES IN A CONVALESCENT DENV IMMUNE COHORT

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Viruses - Pathogenesis and Animal Models

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MALARIA ABOLISHES ONNV-INDUCED ARTHRITIS BY ALTERING THE KINETICS OF VIRUS-SPECIFIC CD4 T CELL DEVELOPMENT IN THE FOOTPAD-DRAINING LYMPH NODES

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(ACMCIP Abstract)

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EVALUATING THE CONTRIBUTION OF NS1 ANTIGENEMIA TO DENGUE-ELICITED NEUTROPENIA

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ARBOVIRUS TRANSMISSION AND DISEASE PATHOGENESIS IN OBESE AND TYPE II DIABETIC MICE

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EXPLORING MICRORNA AS POTENTIAL DIAGNOSTIC BIOMARKER FOR ZIKA VIRUS INFECTION

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CARDIAC ELECTROMECHANICAL ALTERATIONS DURING CHIKUNGUNYA VIRUS INFECTION

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SOLUBLE UROKINASE PLASMINOGEN ACTIVATOR RECEPTOR AS PROGNOSTIC BIOMARKER FOR SEVERE DENGUE IN ADULTS

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ATTENUATED CHIKUNGUNYA VIRUS STRAIN 181 CLONE 25 INFECTION IN IMMUNOSUPPRESSED RHESUS MACAQUES

Piyanate Sunyakumthorn, Manutsanun Inthawong, Rawiwan Im-erbsin, Sujitra Tayamun, Kesara Chumpolkulwong, Phakorn Wilaisri, Taweewun Hunsawong, Chonticha Klungthong, Stefan Fernandez, Erin E. Ball, Kelly Richard
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A MACHINE LEARNING AIDED COMPARISON OF LIVER PATHOLOGY AMONG FILOVIRUSES

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A CONSISTENT NONHUMAN PRIMATE MODEL FOR EARLY ZIKV-ASSOCIATED PREGNANCY LOSS

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GENETIC ANCESTRY DRIVES DIFFERENCES IN THE IMMUNE RESPONSE TO DENGUE VIRUS INFECTION IN HUMAN SKIN

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HCV LEADING EARLY AGE ONSET OF HCC - MULTIPLE RISK FACTORS ATTRIBUTE

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RECONSTITUTION OF HUMAN MICROGLIAL CELLS IN BRAIN CEREBRAL CORTEX AND CEREBELLUM OF HUMAN-IMMUNE-SYSTEM HUMANIZED DRAGA MICE

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EFFICACY OF HUMAN SERA FROM SUBJECTS VACCINATED WITH A CHIKUNGUNYA VIRUS VIRUS-LIKE PARTICLE VACCINE IN CYNOMOLGUS MACAQUES

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INVESTIGATION OF A SUSPECTED CASE OF MONKEY POX, IBOKE, HEALTH DISTRICT OF TABOU, CÔTE D'IVOIRE, JULY 2022

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SYLVATIC STRAINS OF DENGUE VIRUS HAVE DISTINCT REPLICATION KINETICS IN HUMAN CELLS

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SEVERE DENGUE RISK: SPECIAL POPULATIONS WITH REPEATED HIGH-RISK EXPOSURES: CHARACTERISTICS AND A FRAMEWORK FOR RECOMMENDATIONS

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Viruses - Therapeutics and Antiviral Drugs

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HIGH CONFIDENCE AND DEMAND FOR HEPATITIS E VACCINE DURING AN OUTBREAK IN BENTIU, SOUTH SUDAN: A QUALITATIVE STUDY

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POTENT NEUTRALIZING ANTIBODIES ISOLATED FROM DONORS IMMUNIZED WITH THE 17D YELLOW FEVER VACCINE

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EXPLORING POTENTIAL INDICATIONS FOR REMDESIVIR BEYOND COVID-19

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EVOLUTION OF A FUNCTIONALLY INTACT BUT ANTIGENICALLY DISTINCT DENV FUSION LOOP

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PHARMACODYNAMIC MODELS TO INFORM THE DESIGN OF PHASE 2 ANTIVIRAL THERAPEUTIC TRIALS FOR DENGUE

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MULTIPLEX ASSAY PERFORMANCE ACROSS VARIED GEOGRAPHICAL AND RESOURCED SETTINGS: DEMOCRATIC REPUBLIC OF THE CONGO, LIBERIA, AND HAWAII

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IN VITRO EFFICACY OF SELECTED ANTIMALARIALS AGAINST VARIANTS OF SARS COV 2 VIRUS CIRCULATING IN PANAMA DURING 2020 2022

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QUERCETIN HYDRATE AS A POTENTIAL ANTIVIRAL AGENT AGAINST ZIKA VIRUS

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A UNIVERSAL PURIFICATION METHOD FOR SARS-COV-2 VARIANT SPIKE ANTIGENS

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DESIGNING THERAPEUTICS BIOSIMILAR OF COMMERCIALIZED MABS TO MINIMIZE LETHAL EFFECTS OF DENGUE HEMORRHAGIC FEVER: IN-SILICO APPROACH

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NIPAH VIRUS THERAPEUTICS: A SYSTEMATIC REVIEW FOR CLINICAL PRIORITISATION

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DENGUE ALLIANCE: ADVANCING DENGUE ANTIVIRALS FROM *IN VITRO* TO CLINICAL EFFICACY STUDIES OF CONCEPT STUDIES

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DEVELOPMENT OF A PSEUDOTYPED LENTIVIRAL REPORTER VIRUS SYSTEM FOR NIPAH AND HENDRA VIRUSES

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MAPPING ANTIBODY EPITOPES USING A COMPREHENSIVE MUTAGENESIS LIBRARY OF SARS-COV-2 S PROTEIN

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DEVELOPING NOVEL INHIBITORS AGAINST VENEZUELAN EQUINE ENCEPHALITIS VIRUS BY TARGETING VIRUS-HOST INTERACTIONS

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Malaria - Antimalarial Resistance and Chemotherapy

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FACTORS ASSOCIATED WITH ADHERENCE TO MALARIA TREATMENT GUIDELINES IN PRIVATE DRUG OUTLETS - KISUMU COUNTY, KENYA

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RETROSPECTIVE STUDY TO DETERMINE ANTIMALARIAL RESISTANCE MARKERS PROFILE USING TAQMAN ARRAY CARD (TAC) IN TAK PROVINCE THAILAND FROM 1998-2001

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EMERGING *PLASMODIUM FALCIPARUM* WITH REDUCED SUSCEPTIBILITY TO ARTEMISININ AND LUMEFANTRINE IN AFRICA

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SANGER SEQUENCING AND DECONVOLUTION OF POLYCLONAL INFECTIONS: A QUANTITATIVE APPROACH TO MONITOR DRUG RESISTANT *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

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IDENTIFICATION OF NEW ANTIMALARIALS TARGETING THE *P. FALCIPARUM* PROLINE TRNA SYNTHETASE

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SIMPLE, INEXPENSIVE *IN VITRO* DRUG SURVIVAL ASSAY FOR MONITORING ANTIMALARIAL DRUG SENSITIVITY IN MALARIA ENDEMIC REGIONS

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(ACMCIP Abstract)

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ANALYSIS OF THE SUITABILITY OF USE OF MUTATIONS IN THE PVCRT-O AND PVMDR1 GENES AS MARKERS OF RESISTANCE OF *PLASMODIUM VIVAX* TO CHLOROQUINE IN AMAZONIC BASIN

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(ACMCIP Abstract)

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IDENTIFICATION OF B-CARBOLINE DERIVATIVES ACTIVE AGAINST QUIESCENT ARTEMISININ-RESISTANT *PLASMODIUM FALCIPARUM*

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PLASMODIUM FALCIPARUM KELCH13 R561H SPREAD AND EMERGENCE OF OTHER ARTEMISININ PARTIAL RESISTANT MUTATIONS ACROSS RWANDA USING A SITE AND TEMPORAL RAPID POOLING STRATEGY

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PLASMODIUM FALCIPARUM DRUG RESISTANCE MARKERS AND GENETIC STRUCTURE IN MOZAMBIQUE, 2015-2022

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INADEQUATE ARTEMETHER-LUMEFANTRINE TREATMENT RESPONSE IN A 15-MONTH OLD PATIENT WITH UNCOMPLICATED FALCIPARUM MALARIA IN WESTERN KENYA: A CASE REPORT

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PREVALENCE OF MOLECULAR MARKERS OF RESISTANCE TO SP BEFORE AND AFTER COMMUNITY DELIVERY OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY: A MULTI-CONTRY EVALUATION IN SUB-SAHARAN AFRICA

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ESTIMATING THE IMPACT OF *PLASMODIUM FALCIPARUM* DHFR AND DHPS MUTATIONS ON PROTECTIVE EFFICACY OF SULFADOXINE-PYRIMETHAMINE: EVIDENCE FROM THERAPEUTIC EFFICACY STUDIES AND IMPLICATIONS FOR MALARIA CHEMOPREVENTION

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IMPACT OF SEASONAL MALARIA CHEMOPREVENTION (SMC) ON MOLECULAR MARKERS OF *PLASMODIUM FALCIPARUM* ANTIMALARIAL DRUG RESISTANCE IN KOULIKORO HEALTH DISTRICT, MALI

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SYSTEMATIC REVIEW & GEOSPATIAL MODELLING OF MOLECULAR MARKERS OF RESISTANCE TO ARTEMISININS & SULFADOXINE-PYRIMETHAMINE IN *PLASMODIUM FALCIPARUM*IN INDIA

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PHARE, A BIOINFORMATICS PIPELINE TO DETECT MINORITY HAPLOTYPES IN MULTICLONAL SAMPLES

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MOLECULAR MARKERS OF RESISTANCE TO SULFADOXINE-PYRIMETHAMINE AND AMODIAQUINE IN THE HEALTH DISTRICT OF BOUSSÉ, BURKINA FASO

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RESISTANCE HAPLOTYPES DETECTED IN PREGNANT WOMEN IN BURKINA FASO RECEIVING INTERMITTENT PREVENTIVE TREATMENT WITH SP

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Malaria - Diagnosis - Challenges and Innovations

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DIAGNOSTIC PERFORMANCE OF NXTEK™ ELIMINATE MALARIA PF TEST FOR THE DETECTION OF *PLASMODIUM FALCIPARUM* IN SCHOOL CHILDREN WITH ASYMPTOMATIC MALARIA

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EVIDENCE OF NON-FALCIPARUM *PLASMODIUM* CIRCULATION IN WESTERN AND EASTERN SENEGAL AND ITS IMPLICATIONS FOR MALARIA CONTROL

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PERFORMANCE EVALUATION OF NOVEL LDH-BASED RAPID DIAGNOSTIC TESTS FOR *P. FALCIPARUM*AND *P. VIVAX*MALARIA ON FROZEN SPECIMENS: IMPLICATIONS FOR ACCESS TO RADICAL CURE

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LOW PREVALENCE OF PFHRP2 AND PFHRP3 DELETIONS AND NON-FALCIPARUM MALARIA INFECTIONS IN OUTPATIENTS SAMPLED DURING THE 2021 BENIN HEALTH FACILITY SURVEY

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PLASMODIUM FALCIPARUM KELCH13 MUTATIONS IN ERITREA AND ASSOCIATIONS WITH PFHRP2 AND PFHRP3 DELETIONS

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SURVEILLANCE OF *PLASMODIUM FALCIPARUM* HRP23 GENE DELETIONS IN MOZAMBIQUE: A PROSPECTIVE STUDY

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AVAILABILITY OF FREE MALARIA RAPID DIAGNOSTIC TESTS AT THE LEVEL OF PRIVATE PHARMACIES FOR THE CONFIRMATION OF THE DIAGNOSIS OF MALARIA PRIOR TO ANTIMALARIAL TREATMENT: RESULTS OF A PILOT PROJECT IN BENIN : MARCH TO DECEMBER 2022

Edgard Mario Badet[1], Virgile Gnaguenon[2], Eugène Montcho[2], Patrick Condo[2], Cyriaque D. Affoukou[1], Gislaine Loko Djidjoho[3], Mourchidath Adegbindi[3], Pascal Fafeh[4], Vivien Akan[1]
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MALARIA PARASITEMIA ESTIMATES BASED ON HRP2 AND PLDH ANTIGEN CONCENTRATIONS FROM A LARGE HOUSEHOLD SURVEY IN NIGERIA: HOW MUCH DIFFERENCE DOES RDT PERFORMANCE MAKE?

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MALARIA MISDIAGNOSIS IN THE ROUTINE HEALTH SYSTEM IN ARBA MINCH AREA DISTRICT IN SOUTHWEST ETHIOPIA: AN IMPLICATION FOR MALARIA CONTROL AND ELIMINATION

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USER PERCEPTIONS OF A SMARTPHONE-BASED MALARIA RAPID DIAGNOSTIC TEST (RDT) AID FOR COMMUNITY AND PRIVATE CLINIC-BASED HEALTH WORKERS IN WESTERN KENYA

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LACK OF MUTANT *P. FALCIPARUM* PARASITES WITH PFHRP2AND PFHRP3 GENE DELETIONS IN ANLONG VENG AND KRATIE, CAMBODIA

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PERFORMANCE AND USABILITY EVALUATION OF NOVEL MALARIA RDTS FOR IMPROVED CASE MANAGEMENT IN KÉDOUGOU, SENEGAL

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DEVELOPMENT OF A FIELD-DEPLOYABLE RT-PCR DIAGNOSTIC SYSTEM FOR *PLASMODIUM* DETECTION IN *ANOPHELES* SPECIES.

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EVALUATION OF MALARIA RAPID DIAGNOSTIC TEST SERVICES PERFORMANCE AT HEALTH POSTS IN ETHIOPIA

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A NOVEL COMPETITIVE ELISA ASSAY TO MEASURE AMODIAQUINE CONCENTRATION IN CHILDREN RECEIVING SULFADOXINE-PYRIMETHAMINE PLUS AMODIAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION IN KOULIKORO, MALI.

Ilo Dicko[1], Hawa Boukary Diarra[1], Daouda Sanogo[1], Soumba Keita[1], Fousseyni Kane[1], Ibrahim Sanogo[1], Mountaga Diallo[1], Nadie Coulibaly[1], Mamadou Wague[1], Hamady Coulibaly[1], Jingqi Qian[2], Baomin Wang[2], Liwang Cui[3], Djeneba Dabitao[1], Mahamoudou Toure[1], Seydou Doumbia[1]
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USING DEATH AUDITS TO IMPROVE CLINICAL MANAGEMENT OF SEVERE MALARIA AND MAP KEY NEEDS TO REDUCE MORTALITY IN NORTHERN ANGOLA

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MULTIPLEX LAMP COUPLED TO CARTRIDGE BASED NALFIA DEVICE AS A ONE POT DIAGNOSTIC PLATFORM FOR MALARIA

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MALARIA RDT INTERPRETATION ACCURACY OF HEALTH WORKERS COMPARED TO ARTIFICIAL INTELLIGENCE (AI) AND PANEL READ IN KANO STATE, NIGERIA

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EVOLUTION OF PFHRP2 AND PFHRP3 DELETIONS IN EQUATORIAL GUINEE BETWEEN THE PRE AND POST RDT INTRODUCTION AND THE IMPACT OF PUBLIC HEALTH STRATEGIES ON THEIR EXPANSION

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Malaria - Drug Development and Clinical Trials

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SUPEROXIDE GENERATION AND REDOX CYCLING OF PRIMAQUINE METABOLITES ARE DRIVEN BY BILIVERDIN REDUCTASE B AND N-RIBOSYLDIHYDRONICOTINAMIDE:QUINONE REDUCTASE 2

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POTENT ACYL-COA SYNTHETASE 10 INHIBITORS KILL *PLASMODIUM FALCIPARUM* BY DISRUPTING TRIGLYCERIDE FORMATION

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FIGHTING MALARIA WITH IRRESISTIBLE DRUGS

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LEVERAGING RWANDA'S COMMUNITY HEALTH WORKERS TO CONDUCT A THERAPEUTIC EFFICACY STUDY IN AREAS OF DECLINING MALARIA TRANSMISSION

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SAFETY AND EFFICACY OF PRIMAQUINE IN PATIENTS WITH *P. VIVAX* MALARIA FROM SOUTH ASIA: A SYSTEMATIC REVIEW AND INDIVIDUAL PATIENT DATA META-ANALYSIS

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Malaria - Epidemiology

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BREAKING THE MALARIA CYCLE; ASSESSMENT OF REPEAT MALARIA INFECTIONS IN LAKE ENDEMIC REGION OF WESTERN KENYA, JUNE 2021-MAY 2022

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MALARIA TEST POSITIVITY RATES IN COMMUNITY SURVEILLANCE AS COMPARED TO HEALTH FACILITY SURVEILLANCE IN MALARIA ENDEMIC AREA RARIEDA SUB-COUNTY, WESTERN KENYA

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IMPLEMENTING HIGH QUALITY COMMUNITY CASE MANAGEMENT AND DATA REPORTING: LESSONS FROM THE FIELD IN SIAYA, WESTERN KENYA

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NON-RANDOM DISTRIBUTION OF *PLASMODIUM* SPECIES INFECTIONS AND ASSOCIATED CLINICAL OUTCOMES IN CHILDREN 3-17 YEARS OF AGE IN THE LAKE VICTORIA REGION, KENYA, 2012-2020

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DYMANICS OF SUBMICROSCOPIC MALARIA INFECTION IN SOUTHERN BENIN

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HIGH PROPORTION OF LOW PARASITAEMIA AND SUBMICROSCOPIC MALARIA INFECTIONS IN HONDURAN MOSKITIA

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(ACMCIP Abstract)

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A PRELIMINARY ANALYSIS OF HEALTH BEHAVIORS AND ACCESS TO CARE FOR SEVERE MALARIA DISEASE AT SUSSUNDENGA-SEDE HEALTH CENTER

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HEAVY SCHISTOSOMA MANSONI INFECTION IS ASSOCIATED WITH REDUCED RISK OF *PLASMODIUM* INFECTION IN SCHOOLCHILDREN IN LEMFU, DEMOCRATIC REPUBLIC OF THE CONGO

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ASYMPTOMATIC AND SUBMICROSCOPIC MALARIA INFECTIONS IN SUGAR CANE AND RICE DEVELOPMENT AREAS OF ETHIOPIA

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ANTENATAL CARE SURVEILLANCE OF *PLASMODIUM FALCIPARUM* IN MOZAMBIQUE: FROM MALARIA TRENDS TO GENOMICS

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SPATIO-TEMPORAL DISTRIBUTION OF MALARIA CASES IN MUTASA DISTRICT FOLLOWING MALARIA CONTROL INTERVENTION BETWEEN 2017 AND 2023

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SPATIAL DYNAMICS OF MALARIA TRANSMISSION

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EPIDEMIOLOGICAL PROFILE OF PLASMODIAL SPECIES IN SYMPTOMATIC SUBJECTS IN THE CITIES OF BANDUNDU AND KIKWIT&LTKWILU PROVINCE&GTDEMOCRATIC REPUBLIC OF CONGO

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METHODOLOGY TO ESTIMATE DISTRIBUTION OF MALARIA CASES AMONG CHILDREN IN SUB-SAHARAN AFRICA BY SPECIFIED AGE CATEGORIES

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PREVALENCE OF ASYMPTOMATIC AND SUBMICROSCOPIC MALARIA INFECTIONS AMONG HIV PATIENTS IN YAOUNDE, CAMEROON

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EXPLORING THE COST EFFECTIVENESS OF PROACTIVE CASE DETECTION IN HARD-TO-REACH, HIGH INCIDENCE COMMUNITIES FROM A COHORT STUDY IN SOUTHEAST MADAGASCAR

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Malaria - Genetics, Genomics and Evolution

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GENETIC DIVERSITY AND GENOTYPE MULTIPLICITY OF *PLASMODIUM FALCIPARUM* INFECTION IN PATIENTS WITH UNCOMPLICATED MALARIA IN CHEWAKA DISTRICT, ETHIOPIA

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(ACMCIP Abstract)

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ULTRA-DEEP AMPLICON SEQUENCING OF HIGHLY POLYMORPHIC NOBLE MARKERS OF *PLASMODIUM FALCIPARUM* SHOWS DECLINING OF MALARIA TRANSMISSION IN ETHIOPIA

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GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* AND TRANSMISSION PATTERNS IN FOREST-GOING POPULATIONS IN SOUTHERN LAO PDR

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GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* AND GENETIC PROFILE IN CHILDREN WITH ACUTE UNCOMPLICATED MALARIA IN CAMEROON

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CYP3A4 GENE VARIANTS IN RESIDENTS OF LAKE VICTORIA REGION, KENYA, 2013

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PLASMODIUM FALCIPARUM WITH PFHRP2 AND PFHRP3 GENE DELETIONS IN ASYMPTOMATIC MALARIA INFECTIONS IN THE LAKE VICTORIA REGION, KENYA

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POPULATION AND EVOLUTIONARY GENETICS OF AMA1 GENE IN CAMEROONIAN *PLASMODIUM FALCIPARUM* ISOLATES

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(ACMCIP Abstract)

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GENETIC DIVERSITY AND MOLECULAR EVOLUTION OF *PLASMODIUM VIVAX*DUFFY BINDING PROTEIN AND MEROZOITE SURFACE PROTEIN I IN NORTHWESTERN THAILAND

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(ACMCIP Abstract)

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PREDICTING THE GENETIC SIGNATURES OF DRY SEASON AESTIVATION AMONG MALARIA TRANSMITTING MOSQUITOES

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TRANSCRIPTOME ANALYSIS REVEAL MOLECULAR TARGETS OF INVASION PHENOTYPE DIVERSITY IN NATURAL *PLASMODIUM FALCIPARUM* ISOLATES FROM MALARIA ENDEMIC REGIONS OF CAMEROON

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(ACMCIP Abstract)

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NANOPORE SEQUENCING FOR REAL-TIME GENOMIC SURVEILLANCE OF *PLASMODIUM FALCIPARUM*

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GYPB DELETION VARIANTS (DEL1 AND DEL2) DISTRIBUTION AMONG GHANAIAN POPULATIONS AND RELATIONSHIP WITH MALARIA SUSCEPTIBILITY

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(ACMCIP Abstract)

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INCREASED FREQUENCY OF PFHRP2-DELETED *PLASMODIUM FALCIPARUM* IN THE PERUVIAN AMAZON IS NOT EXPLAINED BY SELECTION OF THE GENE DELETION

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HYBRID CAPTURE SEQUENCING OF *PLASMODIUM* MALARIAE FROM TANZANIA

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EXPLORING HOW TRANSMISSION INTENSITY, SAMPLING, AND HUMAN MOBILITY IMPACT OUR ABILITY TO MEASURE GENETIC RELATEDNESS ACROSS *PLASMODIUM FALCIPARUM* POPULATIONS

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AMPLICON DEEP SEQUENCING REVEALS MULTIPLE GENETIC EVENTS LEAD TO TREATMENT FAILURE WITH ATOVAQUONE-PROGUANIL IN*PLASMODIUM FALCIPARUM*

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A CANDIDATE GENE ANALYSIS OF SEVERE MALARIA VARIANTS IN A COHORT OF MALIAN CHILDREN IDENTIFIES A NOVEL SUSCEPTIBILITY LOCUS IN CSMD1GENE

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Malaria - Immunology

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PROTECTIVE HUMORAL RESPONSE TO *PLASMODIUM FALCIPARUM* PF27 AND ITS ORTHOLOG *PLASMODIUM VIVAX* PV27 ANTIGENS IN SERA FROM DANGASSA AND KOILA, TWO MALARIA ENDEMIC AREAS IN MALI

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(ACMCIP Abstract)

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BROADLY REACTIVE ANTIBODIES TARGET SEVERE MALARIAL ANTIGEN TO NEUTRALISE PARASITE SEQUESTRATION

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(ACMCIP Abstract)

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THE CHEMOKINE RECEPTOR CXCR3 PLAYS A CRITICAL ROLE IN T CELL-MEDIATED PROTECTION FROM LIVER-STAGE *PLASMODIUM* INFECTION

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(ACMCIP Abstract)

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IMMUNOLOGICAL PROFILING OF MALARIA PHENOTYPES IN ENDEMIC AREAS OF KENYA: A LONGITUDINAL COHORT STUDY

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(ACMCIP Abstract)

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OPSONICPHAGOCYTOSIS IGGS TO ICAM1BINDING *PLASMODIUM FALCIPARUM* ERYTHROCYTE MEMBRANE PROTEIN 1 ARE ASSOCIATED WITH THE CLINICAL PRESENTATION OF MALARIA IN BENINESE CHILDREN

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COMPOSITION OF PRE-TRANSMISSION SEASON STOOL MICROBIOTA IS ASSOCIATED WITH RESISTANCE TO MALARIA IN OLDER MALIAN CHILDREN

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EVALUATING THE IMPACT OF NATURAL KILLER CELL PHENOTYPE, MALARIA DIVERSITY AND TRANSMISSION, AND ERYTHROCYTE POLYMORPHISMS ON ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY

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BIOCHEMICAL AND BIOINFORMATIC CHARACTERIZATION OF SURFACE EXPRESSED HYPERVARIABLE PROTEIN FAMILIES (RIFIN AND STEVOR) ASSOCIATED WITH PATHOGENESIS AND ACQUIRED IMMUNITY TO *PLASMODIUM FALCIPARUM* INFECTION

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(ACMCIP Abstract)

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CRYO-EM REVEALS THE STRUCTURAL BASIS OF EPITOPE SELECTIVITY AND PROTECTION FROM MALARIA INFECTION IN A FAMILY OF POTENT ANTI-PFCSP ANTIBODIES

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ANTIBODY PROFILES AGAINST NON-MALARIA PATHOGENS DISPLAYED IN *P. VIVAX*-INFECTED INDIVIDUALS FROM THE PERUVIAN AMAZON

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(ACMCIP Abstract)

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PLACENTAL MALARIA MODULATES NEONATAL DENDRITIC CELLS' PHENOTYPE AND FUNCTION: A CROSS SECTIONAL STUDY IN BENIN

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(ACMCIP Abstract)

Malaria – Pathogenesis

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THE ROLE OF PFEMP1 IN SICKLE-CELL RESISTANCE TO *PLASMODIUM FALCIPARUM* MALARIA

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(ACMCIP Abstract)

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ASSESSMENT OF HOST CLINICAL PARAMETERS AND PARASITE DETERMINANTS RESPONSIBLE FOR DISEASE SEVERITY

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(ACMCIP Abstract)

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THE DIRECT BINDING OF *PLASMODIUM VIVAX* AMA1 TO ERYTHROCYTES DEFINES A RON2-INDEPENDENT INVASION PATHWAY

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ELEVATED FERRITIN, SEVERE MALARIA, AND ACUTE KIDNEY INJURY

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(ACMCIP Abstract)

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IMPACT OF SEASONAL MALARIA CHEMOPREVENTION ON MALARIA PREVALENCE AND IMMUNITY AMONG CHILDREN IN NORTHERN BENIN

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(ACMCIP Abstract)

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NEUREGULIN 1 DECREASES HEME-INDUCED INFLAMMATION IN INDUCED PLURIPOTENT STEM CELLS-DERIVED ENDOTHELIAL CELLS FROM CHILDREN WITH INTRAVASCULAR HEMOLYSIS

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IDENTIFICATION OF BIOMARKERS ASSOCIATED WITH MALARIA IN PREGNANCY AND CLINICAL CORRELATION WITH OUTCOMES

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HISTOPATHOLOGICAL CHARACTERISTICS OF DISCRETE BRAIN REGIONS DURING P. FRAGILE EXPERIMENTAL CEREBRAL MALARIA IN A NONHUMAN PRIMATE MODEL

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(ACMCIP Abstract)

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COMPARISON OF *P. FALCIPARUM* GROWTH *IN VITRO* AND *IN VIVO* IN HUMANISED MICE

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(ACMCIP Abstract)

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GENERATION OF A *PLASMODIUM BERGHEI* LINE EXPRESSING A HALOTAGGED PARASITOPHOROUS-VACUOLE MEMBRANE PROTEIN TO STUDY TARGETED PROTEIN DEGRADATION DURING LIVER STAGE MALARIA

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(ACMCIP Abstract)

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PATHWAYS OF MALADAPTIVE REPAIR FOLLOWING SEVERE MALARIA ASSOCIATED ACUTE KIDNEY INJURY

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Malaria - Prevention

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DRIVERS OF LONG-LASTING INSECTICIDE-TREATED NET UTILIZATION AND PARASITAEMIA AMONG UNDER-FIVE CHILDREN IN 13 STATES WITH HIGH MALARIA BURDEN IN NIGERIA

Perpetua Uhomoibhi[1], Chukwu Okoronkwo[1], IkeOluwapo Ajayi[2], Olugbenga Mokuolu[3], Ibrahim Maikore[4], Adeniyi Fagbamigbe[2], Joshua Akinyemi[2], Festus Okoh[1], **Cyril O. Ademu**[1], Issa Bolakale Kawu[1], Jo-angeline kalambo[5], James Ssekitooleko[5]
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UPTAKE OF FOUR OR MORE DOSES OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA DURING PREGNANCY WITH SULFADOXINE PYRIMETHAMINE (IPTP-SP) IN ZAMBIA: A SECONDARY ANALYSIS OF THE 2018 MALARIA IN PREGNANCY SURVEY DATA

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PREVALENCE OF MALARIA CLINICAL PHENOTYPES DURING ROUTINE CONSULTATION IN HOSPITAL DISTRICT HEALTH OF COMMUNE 4, MALI

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ASSOCIATIONS BETWEEN *ANOPHELES* VECTOR DENSITY AND MALARIA INCIDENCE IN TWO ADJACENT UGANDAN DISTRICTS WITH AND WITHOUT INDOOR RESIDUAL SPRAYING

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A GEOSTATISTICAL ANALYSIS OF USE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY AMONG PREGNANT WOMEN IN NIGERIA

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MALARIA PREVALENCE IN CHILDREN WITH A HISTORY OF EXPOSURE TO SEASONAL MALARIA CHEMOPREVENTION & EXIT FROM THE TARGET: RESULTS OF A CROSS-SECTIONAL STUDY IN SOUTHERN SENEGAL

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ASSOCIATION BETWEEN BEDNET USE AND MALARIA PREVALENCE BY AGE GROUP IN RARIEDA SUB-COUNTY, WESTERN KENYA, 2015-2020

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THE PRESS TOUR: AN OUT-OF-THE-BOX APPROACH TO IMPROVE MALARIA MESSAGING IN MADAGASCAR

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AN EXAMINATION OF NATIONAL SURVEYS AND PROGRAM REVIEWS TO DOCUMENT ACHIEVEMENT OF ANTENATAL CARE AND IPTP TARGETS IN NIGERIA

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EFFECT OF BEDNETS USE ON UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY; FURTHER ANALYSIS OF THE 2019 GHANA MALARIA INDICATOR SURVEY DATA

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POSITIVE EFFECTS OF INDOOR RESIDUAL SPRAYING(IRS) IN MALARIA PREVENTION IN NGOMA DISTRICT

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MENTORSHIP-BASED TASK-SHIFTING APPROACH FOR COMMUNITY HEALTH OFFICERS IMPROVES ANTENATAL CARE ATTENDANCE AND INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY SERVICES IN LOWER-LEVEL FACILITIES IN GHANA

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PAYMENT SYSTEM FOR COMMUNITY ACTORS DURING THE 2021 AND 2022 INSECTICIDE-TREATED NET (ITN) MASS DISTRIBUTION CAMPAIGNS IN MADAGASCAR

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IMPACT OF KNOWLEDGE, ATTITUDES, AND PRACTICES REGARDING LONG-LASTING IMPREGNATED NETS ON THE PREVALENCE OF MALARIA INFECTION AMONG CHILDREN UNDER 5 YEARS OF AGE IN THE DODJI-BATA DISTRICT OF SOUTHERN BENIN

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DETERMINANTS OF MISSED OPPORTUNITIES FOR PERENNIAL MALARIA CHEMOPREVENTION TAKING CUES FROM INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY, VITAMIN A SUPPLEMENTATION AND VACCINATION DELIVERY AMONG CHILDREN 0-24 MONTHS UNDER PROGRAMMATIC CONDITIONS: A SYSTEMATIC REVIEW

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LOST TO FOLLOW-UP AND LOW INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCYAT ANTENATAL CARE SETTINGS IN LIBERIA

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THE ROLE OF COMMUNITY LEADERS IN SEASONAL MALARIA CHEMOPREVENTION: BUILDING STRATEGIES TO COMMUNITY ENGAGEMENT IN NORTHERN MOZAMBIQUE

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COVERAGE AND FACTORS ASSOCIATED WITH UTILIZATION OF PYRETHROID-PIPERONYL BUTOXIDE TREATED NETS IN MALARIA ENDEMIC REGION, WESTERN KENYA

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PSYCHOSOCIAL FACTORS INFLUENCING INSECTICIDE-TREATED NET USE AND CARE IN LIBERIA

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PREVENTION OF MALARIA IN PREGNANT WOMEN AND ITS EFFECTS ON MATERNAL AND CHILD HEALTH, THE CASE OF CENTRE HOSPITALIER DE KINGASANI II IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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INCREASED MALARIA INCIDENCE FOLLOWING IRRIGATION PRACTICES IN THE ENDORHEIC RIFT VALLEY BASIN OF SOUTH ETHIOPIA

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UNBOUND PIPERAQUINE EXPOSURE IN CHILDREN AND PREGNANT WOMEN RECEIVING DIHYDROARTEMISININ-PIPERAQUINE AS MALARIA CHEMOPREVENTION

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RECEIPT OF SEASONAL MALARIA CHEMOPREVENTION BY AGE-INELIGIBLE CHILDREN AND ASSOCIATED FACTORS IN NINE IMPLEMENTATION STATES IN NIGERIA

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ASSESSMENT OF HEALTH SYSTEM'S FUNCTIONALITY AND READINESS FOR PERENNIAL MALARIA CHEMOPREVENTION (PMC) IMPLEMENTATION IN OSUN STATE, NIGERIA

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INSECTICIDE TREATED NETS (ITNS) USE AND MALARIA PREVALENCE AMONG CHILDREN UNDER FIVE IN NIGERIA

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Malaria – Surveillance and Data Utilization

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ENTOMOLOGICAL INDICES PREDICT PARASITOLOGICAL MALARIA TRANSMISSION INDICES ACROSS VILLAGES IN WESTERN KENYA

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QUANTIFYING SPATIAL HETEROGENEITY OF MALARIA IN THE ENDEMIC PAPUA REGION OF INDONESIA: ANALYSIS OF EPIDEMIOLOGICAL SURVEILLANCE DATA

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IMPROVING EVIDENCE FOR ACTION: LESSONS FROM PANAMA'S SUCCESSFUL EFFORTS TO STRENGTHEN CASE-FINDING AND CASE-REPORTING

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ASSESSING THE QUALITY OF MALARIA DATA REPORTED IN DHIMS2 AND FACILITY REGISTERS IN GHANA

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EARLY EFFECT ASSESSMENT OF MALARIA COMMUNITY CASE MANAGEMENT (MCCM) INTERVENTIONS ON THE BURDEN OF MALARIA IN FACILITIES IN TANZANIA

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USING DATA FROM PREGNANT WOMEN IN MALARIA SURVEILLANCE: WHO IS MISSING?

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PRIVATE SECTOR INVOLVEMENT IN THE FIGHT AGAINST MALARIA IN MADAGASCAR

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Dunstan R. Bishanga[1], Frank Chacky[2], Abdallah Lusasi[2], Joseph J. Joseph[3], Patrick Gulinja[1], Mwaka Kakolwa[1], Kanuth Dimoso[1], Kefas Mugittu[1], Muhidin K. Mahende[1], Happiness Nyanda[4], Samwel Lazaro[2], Lulu Msangi[5], Naomi Serbantez[5], Erik Reaves[6], Francis Levira[1]

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DIVERSITY, DISTRIBUTION, AND METHODOLOGICAL CONSIDERATIONS OF HAEMOSPORIDIAN INFECTIONS AMONG GALLIFORMES IN ALASKA

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GEOSPATIAL MODEL OF MOSQUITO BREEDING HABITATS AND SOME PHYSICOCHEMICAL CHARACTERISTICS IN DELTA STATE, NIGERIA

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MALARIA END GAME IN WEST TIMOR: STRATEGY TO FIND AND ELIMINATE MALARIA IN LAST DISEASE POCKETS

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COMPARISON OF ESTIMATES OF MALARIA TRANSMISSION INTENSITY DERIVED FROM THE FACILITY-BASED TEST POSITIVITY RATE VERSUS HOUSEHOLD, MALARIA-INDICATOR STYLE SURVEYS

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USING EPIDEMIOLOGICAL AND ENTOMOLOGICAL DATA TO ASSESS REMAINING EXPOSURE TO MALARIA VECTORS IN RURAL COMMUNITIES IN THE PERUVIAN AMAZON

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PUBLIC-PRIVATE PARTNERSHIP IN MALARIA CASE REPORTING IN PAPUA PROVINCE, INDONESIA: A FORMATIVE RESEARCH

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USING LOT QUALITY ASSURANCE SAMPLING METHODS TO ASSESS COVERAGE AND QUALITY OF SEASONAL MALARIA CHEMOPREVENTION DELIVERY IN NEW GEOGRAPHIES: FINDINGS AND LESSONS FROM NORTHERN MOZAMBIQUE

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IDENTIFYING REPORTING AND FOLLOW-UP CHALLENGES IN MALARIA CASE INVESTIGATION USING THE 1,3,7 STRATEGY IN A SUB-SAHARAN AFRICA PRE-ELIMINATION SETTING

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RAPID ASSESSMENT OF MALARIA SURVEILLANCE SYSTEM AT DISTRICT LEVEL IN MOZAMBIQUE

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A PROTOCOL USING SOCIAL NETWORK SAMPLING AND ANALYSIS TO QUANTIFY HUMAN MOBILITY PATTERNS AND THEIR EFFECTS ON MALARIA TRANSMISSION IN BORDER AREAS OF THE BRAZILIAN, ECUADORIAN, AND PERUVIAN AMAZON

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Malaria - Vaccines and Immunotherapeutics

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P. FALCIPARUM - P.VIVAX BIVALENT VACCINE DEVELOPMENT USING LC16M8Δ / AAV VIRAL VECTORS PLATFORM ACHIEVES STERILE PROTECTION AND TRANSMISSION BLOCKING

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INFLUENCE OF NATURALLY ACQUIRED *P. FALCIPARUM* AND S. HAEMATOBIUM INFECTIONS ON ANTIBODY RESPONSE TO FIVE MALARIA CANDIDATE VACCINES IN PREGNANT GHANAIAN WOMEN

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(ACMCIP Abstract)

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COMPUTATIONAL DESIGN OF A NON-GLYCOSYLATED STABILIZED PFS48/45 IMMUNOGEN ENABLES A POTENT MALARIA TRANSMISSION-BLOCKING NANOPARTICLE VACCINE

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A POTENT AND DURABLE MALARIA TRANSMISSION BLOCKING VACCINE DESIGNED FROM A SINGLE-COMPONENT 60-COPY PFS230D1 NANOPARTICLE

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EFFECTIVENESS OF A MULTI-STAGE VACCINE FORMULATION IN MALARIA VIVAX TRANSMISSION-BLOCKING

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BIOINFORMATIC APPROACH TO DESIGN A *PLASMODIUM FALCIPARUM* PFRIPR MULTI-EPITOPE VACCINE CONSTRUCT

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(ACMCIP Abstract)

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HUMORAL IMMUNE RESPONSES TO THE CENTRAL REPEAT REGION OF PFCSP INDUCED BY A VIAL-VECTORED *PLASMODIUM FALCIPARUM* VACCINE PLAY CRITICAL ROLES IN PROTECTION IN A MURINE MODEL

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DETERMINANTS OF VACCINE COVERAGE AND ACCEPTABILITY OF MALARIA VACCINE IN CHILDREN AGED 6-23 MONTHS IN MALAWI: A HEALTHCARE PROVIDER'S PERSPECTIVE

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VACCINE-INDUCED PFRH5 HUMAN MONOCLONAL ANTIBODIES SHOW BROADLY NEUTRALIZING ACTIVITY AGAINST *P. FALCIPARUM* CLINICAL ISOLATES

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(ACMCIP Abstract)

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SUPERIOR FUNCTIONAL ANTIBODY ACTIVITY OF A DELAYED-BOOST VACCINATION REGIMEN WITH THE *P. FALCIPARUM* BLOOD-STAGE VACCINE RH5.1/MATRIX-M™ IN 5-17 MONTH OLD TANZANIAN INFANTS

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STRUCTURES OF VAR2CSA WITH HOST RECEPTOR REVEALS TARGETABLE INTERFACES FOR NEXT GENERATION PLACENTAL MALARIA VACCINE DESIGN

Rui Ma, Tengfei Lian, Nichole D. Salinas, Rick Huang, Jonathan P. Renn, Thayne H. Dickey, Jennifer Petersen, Joshua Zimmerberg, Sachy Orr-Gonzalez, Brandi Richardson, Tarik Ouahes, Holly Torano, Bethany J. Jenkins, Justin Y.A. Doritchamou, Lynn E. Lambert, Patrick E. Duffy, Niraj H. Tolia

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IMV: INNOVATIONS IN MALARIA VACCINE DEVELOPMENT PROGRAM

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Bacteriology - Enteric Infections

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TRENDS IN THE PREVALENCE AND COMMUNITY KNOWLEDGE AND PRACTICES WITH REGARDS TO PROBABLE TYPHOID FEVER IN SANTA HEALTH DISTRICT - CAMEROON

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CHOLERA OUTBREAK IN SPECIAL INSTITUTIONS MACHAKOS COUNTY, KENYA, 2022

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SEROPREVALENCE OF VIBRIO CHOLERAEIN HAITI, 2017

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EFFICACY OF TYPHOID CONJUGATE VACCINE AGAINST CULTURE-CONFIRMED SALMONELLA TYPHI - A SYSTEMATIC REVIEW AND META-ANALYSIS

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FECAL PH AS A MARKER OF CHRONIC MALNUTRITION OR STUNTING AMONG CHILDREN HOSPITALIZED FOR DIARRHEA AND OTHER NON-DIARRHEAL PATHOLOGIES

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IMMUNOGENICITY AND TOLERABILITY OF DIFFERENT DOSE SCHEDULES OF TYPHOID CONJUGATE VACCINE IN NEPAL

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DIARRHEA EPIDEMICS IN DHAKA, BANGLADESH BEFORE AND DURING THE COVID-19 PANDEMIC: AN EPIDEMIOLOGICAL INVESTIGATION

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RISK FACTORS FOR SYMPTOMATIC AND ASYMPTOMATIC INFECTION WITH DIARRHEAGENIC E.COLI IN INFANTS OF PERI-URBAN LIMA, PERU

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FACTORS ASSOCIATED WITH PERSISTENCE OF STUNTING AT THE END OF THE FOLLOW UP PERIOD AMONG BANGLADESHI CHILDREN WITH DIARRHEA

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COMPARATIVE CHARACTERISTICS OF CHILDREN HOSPITALIZED FOR ACUTE, CHRONIC & WITHOUT MALNUTRITION

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FACTORS ASSOCIATED WITH MORTALITY IN SEVERELY MALNOURISHED HOSPITALIZED CHILDREN WITH DIARRHOEA WHO DEVELOPED SEPTIC SHOCK

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ISOLATION AND WHOLE GENOME SEQUENCING OF A CRONOBACTER SAKAZAKII SEQUENCE TYPE 136 STRAIN, FROM READY-TO-EAT FOOD

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TITANIUM DIOXIDE NANOPARTICLES CAN ACTIVATE HUMAN DENDRITIC CELLS AGAINST MYCOBACTERIUM LEPRAE INFECTION: A PROMISE FOR DENDRITIC CELL IMMUNOTHERAPY AGAINST LEPROMATOUS LEPROSY

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CHARACTERIZATION OF MULTIDRUG-RESISTANT ESKAPE PATHOGENS ISOLATED FROM A PUBLIC HOSPITAL IN HONDURAS IN 2021

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Cynthia Atieno Musumba[1], Mark Matheka[1], Stephen Olublyera[1], Maurice Mowiny[1], Fredrick Odhiambo[1], Ahmed Abade[1], Maria Nunga[1], Caren Ndeta[1], Hilary Limo[2], Catherine Kiama[3]

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Patience Lartekai Adams, Jennifer Amedior, Roberta Tackie, Anthony Ablordey

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Linda M. Chams, William E. Guerrero, Carlos J. Castro

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Pedro Marcal[1], Anushka Saha[2], Trirupa Chakraborty[3], Lorena Oliveira[4], Lucia Fraga[5], Jishnu Das[3], Aniruddh Sarkar[2], Jessica Fairley[6]

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RECONSTRUCTIVE SURGERY FOR THE NEGLECTED TROPICAL DISEASES (NTDS): GLOBAL GAPS AND FUTURE DIRECTIONS

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David K. Deoglas, Boniphace M. Kalyanyama, Jeremiah R. Moshy, Shafii S. Ramadhani, Paulo J. Laizer

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Arkasha Sadhewa[1], Alina Chaudhary[2], Lydia V. Panggalo[3], Angela Rumaseb[1], Nabaraj Adhikari[2], Sanjib Adhikari[2], Komal R. Rijal[2], Megha R. Banjara[2], Ric N. Price[1], Benedikt Ley[1], Prakash Ghimire[2], Ari W. Satyagraha[4]

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EVALUATION OF HIGHER SEROLOGIC THRESHOLD FOR STOPPING MASS DRUG ADMINISTRATION IN ONCHOCERCIASIS ELIMINATION IN THE TUKUYU FOCUS, TANZANIA

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PROVIDING EVIDENCE ON THE STATUS OF TRANSMISSION OF ONCHOCERCIASIS IN 5 COUNTIES IN LIBERIA

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HIGH PREVALENCE OF LOA LOA AND MANSONELLA PERSTANS IN NORTHERN GABON

Luccheri Ndong Akomezoghe, Noé Patrick M'Bondoukwé, Denise Patricia Mawili Mboumba, Jacques Mari Ndong Ngomo, Bridy Chesly Moutombi Ditombi, Hadry Roger Sibi Matotou, Valentin Migueba, Marielle Karine Bouyou-Akotet

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DIROFILARIA SP. HONG KONG AND BRUGIA SP. SRI LANKAN GENOTYPE ARE THE PRIMARY CAUSES OF FILARIAL INFECTION IN DOGS IN SRI LANKA

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DIFFERENCES IN VACCINE-SPECIFIC RESPONSES BETWEEN URBAN AND RURAL ENVIRONMENTS AND MEDIATORS OF THESE DIFFERENCES AMONG UGANDAN ADOLESCENTS: THE POPVAC TRIALS

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HOW DOES THE PROPORTION OF NEVER TREATMENT INFLUENCE THE SUCCESS OF MASS DRUG ADMINISTRATION PROGRAMMES FOR THE ELIMINATION OF LYMPHATIC FILARIASIS?

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ASSESSING IMPACT OF IVERMECTIN AND ALBENDAZOLE MASS DRUG ADMINISTRATION ON TRANSMISSION OF LYMPHATIC FILARIASIS IN 24 DISTRICTS IN SENEGAL

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NATIONWIDE RE-MAPPING SURVEY FOR LYMPHATIC FILARIASIS ELIMINATION IN THE DOMINICAN REPUBLIC

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MOLECULAR EPIDEMIOLOGY OF CIRCULATING DIROFILARIA IMMITIS AND DIROFILARIA REPENS IN CULICIDAE MOSQUITOES FROM REYNOSA, TAMAULIPAS

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Helminths – Nematodes – Filariasis (Genetics/Genomics)

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GENETIC DIVERSITY WITH THE EMERGING ZOONOSIS OF AN ONCHOCERCA SPECIES OF HUMAN POPULATIONS IN TARABA STATE, NIGERIA

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BENCHMARKING AN ACCESSIBLE METHOD FOR GENERATING COMPLETE GENOMES FROM PARASITIC NEMATODES

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Helminths – Nematodes – Filariasis (Immunology)

5594

BMA-LAD-2 AS A NOVEL ANTIBODY TARGET FOR THE TREATMENT OF LYMPHATIC FILARIASIS

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(ACMCIP Abstract)

5595

IMPACT OF WUCHERERIA BANCROFTI INFECTION ON CERVICAL MUCOSAL IMMUNITY OF WOMEN IN LINDI, TANZANIA

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5596

EFFECTS OF WUCHERERIA BANCROFTI INFECTION ON CD4 T CELL RESPONSES TO SPECIFIC AND NON-SPECIFIC ANTIGENS

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(ACMCIP Abstract)

5597

MULTIPLEXED HIGH THROUGHPUT POINT-OF-CARE BIOSENSING OF ONCHOCERCIASIS ANTIBODY MARKERS

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5598

CYTOKINE*IN UTERO*PRIMING IS ASSOCIATED WITH DETRIMENTAL BIRTH OUTCOMES ANDCHILD INFECTIONS

Ruth K. Nyakundi[1], Ronald K. Ottichilo[2], Thomas M. Kariuki[3], Jann Hau[4], Bernard Guyah[2], Dunstan Mukoko[5], Francis M. Mutuku[6], A. Desiree LaBeaud[7], Christopher L. King[8], Charles H. King[8], **Indu Malhotra**[8]

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(ACMCIP Abstract)

Integrated Control Measures for Neglected Tropical Diseases (NTDs)

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IMPACT AND COST EFFECTIVENESS OF ANNUAL VS. TWICE ANNUAL MASS DRUG ADMINISTRATION FOR ELIMINATION OF LYMPHATIC FILARIASIS AND CONTROL OF ONCHOCERCIASIS IN COTE D'IVOIRE

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5600

INVESTIGATING KNOWLEDGE, ATTITUDES, AND PRACTICES OF HEALTH WORKERS ON THE MANAGEMENT OF FEMALE GENITAL SCHISTOSOMIASIS IN THE SOUTH REGION OF CAMEROON

Charlotte Njua Mbuh

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5601

INVESTIGATING THE INFLUENCE OF PATHOGENIC LEPTOSPIRE SHEDDING BY RAT POPULATIONS ON HUMAN LEPTOSPIRA INCIDENCE IN SALVADOR, BRAZIL

Nirali Soni[1], Fábio N. Souza[2], Albert I. Ko[3], Elsio A. Wunder Jr[3], Michael Begon[4], Hussein Khalil[5], Daiana S. de Oliveira[6], Mitermayer G. Reis[6], Federico Costa[2], Emanuele Giorgi[1]

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5602

MAINTAINING ELIMINATION OF TRACHOMA AS A PUBLIC HEALTH PROBLEM: POST-VALIDATION SURVEILLANCE PLANS IN VALIDATED COUNTRIES

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5603

INTEGRATED SURVEILLANCE FOR LYMPHATIC FILARIASIS, VISCERAL LEISHMANIASIS AND DENGUE A DIFFICULT PROPOSITION

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5604

IMPLEMENTATION OF A SUSTAINABLE *AEDES AEGYPTI* CONTROL STRATEGY (ISAACS): A COMMUNITY-BASED MODEL

Harold Suazo[1], Lester Lorente[2], Jacqueline Mojica[1], Jose Juarez[3], Jorge Ruiz[1], Laura Chanchien[2], Josefina Coloma[4]

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5605

COST EFFECTIVENESS OF COMPARATIVE SURVEY DESIGNS FOR HELMINTH CONTROL PROGRAMS: POST-HOC COST ANALYSIS AND MODELLING OF THE KENYAN NATIONAL SCHOOL BASED DEWORMING PROGRAM

Mark Minnery[1], Collins Okoyo[2], Grace Morgan[1], Andrew Wang[1], Olatunji Johnson[3], Claudio Fronterre[3], Antonio Montresor[4], Suzy Campbell[1], Charles Mwandawiro[2], Peter Diggle[3]

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5606

SEROSTATUS OF ANTI-RABIES TITER VACCINE LEVELS IN IMPOUNDED DOGS IN MUNTINLUPA CITY, PHILIPPINES, 2021

Jairue Pattaguan Cafe

Research Institute for Tropical Medicine, Muntinlupa, Philippines

5607

ASSESSING HEALTH SYSTEM'S PERFORMANCE FOR NEGLECTED TROPICAL DISEASES (NTDS) THROUGH WHO'S DATA QUALITY ASSESSMENT (DQA) TOOL IN FOUR WEST AFRICAN COUNTRIES

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5608

MEASURING THE OUTCOME OF THE MASS DRUGS ADMINISTRATION OF LYMPHATIC FILARIASIS THROUGH SENTINEL AND SPOT SITES SURVEYS FROM 2012 - 2021

Abraham Wlah Nyenswah

Ministry of Health, Monrovia, Liberia

5609

INCIDENCE OF SNAKEBITES IN RURAL POPULATIONS OF REPUBLIC OF CONGO

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Kinetoplastida and Other Protozoa - Diagnosis and New Detection Tools (Including Leishmania and Trypanosomes)

5610

UTILITY OF THE LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY FOR THE DIAGNOSIS OF VISCERAL LEISHMANIASIS FROM BLOOD SAMPLES IN ETHIOPIA

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(ACMCIP Abstract)

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VISCERAL LEISHMANIASIS: IMPROVED MOLECULAR DIAGNOSIS USING THE MINI DIRECT ON BLOOD PCR NUCLEIC ACID LATERAL FLOW IMMUNOASSAY (DBPCR-NALFIA)

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COST EFFECTIVENESS ANALYSIS OF CONGENITAL CHAGAS DISEASE SCREENING METHODS IN BOLIVIA

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POTENTIAL BIOMARKERS FOR ASYMPTOMATIC VISCERAL LEISHMANIASIS AMONG DEPLOYED U.S. MILITARY PERSONNEL

Fernanda Fortes de Araujo[1], Ines Lakhal-Naouar[2], Rupal Mody[3], John Curtin[4], Edgie-Mark Co[5], Nathanial K. Copeland[6], Nancy Koles[1], Hui Liu[1], Anna Wooten[1], Naomi Aronson[1]
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OPTIMIZATION AND VALIDATION OF RECOMBINANT ANTIGEN BASED INDIRECT ELISA FOR CUTANEOUS LEISHMANIASIS

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(ACMCIP Abstract)

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EVALUATION OF NOVODIAG® STOOL PARASITES TEST, A HIGH-PLEX STOOL TEST, AGAINST TRADITIONAL METHODS IN A HIGH-RISK TRAVELLER AND MIGRANT POPULATION AS A POTENTIAL FOR QUICKER AND MORE ACCURATE IDENTIFICATION OF INTESTINAL PARASITES

Rohma Ghani[1], Spencer Polley[2], Rashmita Bodhani[2], Amina Moussa[2], Peter L. Chiodini[1], Gauri Godbole[1], Laura Nabarro[1]
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5616

A SEROLOGICAL 'TEST OF TREATMENT RESPONSE' FOR CHAGAS DISEASE

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EVALUATION OF TOXOPLASMA GONDII EXCRETORY/ SECRETORY AND MEMBRANE ANTIGEN FOR THE DETECTION OF INFECTION IN ACUTE PHASE BY WESTERN BLOTTING

José L. Pasco Espinoza[1], Juan A. Jimenez Chunga[2], Edith S. Málaga[1], Solange B. Custodio Custodio[1], Manuela R. Verastegui Pimentel[1], Martiza Calderón Sánchez[1], Cesar M. Gavidia Chucan[3], Robert H. Gilman[4]
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(ACMCIP Abstract)

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DRIED BLOOD SPOTS (DBS): A SUITABLE ALTERNATIVE TO USING WHOLE BLOOD SAMPLES FOR DIAGNOSTIC TESTING OF VISCERAL LEISHMANIASIS IN THE POST-ELIMINATION ERA

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TESA-BLOT AS A RAPID TEST

Edith S. Malaga[1], Manuela R. Verastegui Pimentel[1], Shirley Equila[2], Jean C. Belarde Leigue[2], Clarisa R. Chavez[2], Freddy Tinajeros[2], Robert H. Gilman[3]
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EVALUATION OF TRYPANOSOMA CRUZI AMASTIGOTE ANTIGENS IN CARDIAC TISSUE AT DIFFERENT POST-INFECTION TIMES

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(ACMCIP Abstract)

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COMPARATIVE ANALYSIS OF A CHAGAS DISEASE RAPID DIAGNOSTIC TEST (RDT) FOR THE DETECTION OF ANTI-TRYPANOSOMA CRUZI ANTIBODIES AMONG SERUM COLLECTED FROM MULTIPLE REGIONS OF COLOMBIA

Norman L. Beatty[1], Omar Cantillo-Barazza[2], Paola Vásquez Escobar[2], Daniela Sánchez Aristizabal[2], Omar Triana-Chávez[2]

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DETECTION OF A TOXOPLASMA GONDII ANTIGENIC PROTEIN AND ITS POTENTIAL USE IN THE NONINVASIVE DIAGNOSIS OF TOXOPLASMOSIS

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Kinetoplastida and Other Protozoa - Genomics, Proteomics and Metabolomics, Molecular Therapeutic Targets (Including Leishmania and Trypanosomes)

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ASSESSING THE TSETSE FLY MICROBIOME COMPOSITION AND THE POTENTIAL ASSOCIATION OF SOME BACTERIA TAXA WITH TRYPANOSOME ESTABLISHMENT

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SIMILARITIES BETWEEN GENES FOR TRYPANOSOMA CRUZI MICROTUBULE ASSOCIATED PROTEINS AND HUMAN INTERFERONS

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HYBRID ASSEMBLY OF THE LEISHMANIA VIANNIA PERUVIANA GENOME

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MECHANISM OF INTESTINAL BARRIER REPAIR IN GIARDIASIS

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(ACMCIP Abstract)

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GENOMIC ANALYSIS DEMONSTRATES EXTENSIVE DIVERSITY AND SUBTLE POPULATION STRUCTURE IN *PLASMODIUM VIVAX* ACROSS 9 DISTRICTS OF ETHIOPIA

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IN VITRO TRANSCRIPTOMIC REMODELING OF CARDIOMYOCYTES CAUSED BY TRYPANOSOMA CRUZI

Katherine-Sofia Candray-Medina[1], Yu Nakagama[1], Ito Masamichi[2], Shun Nakagama[3], Evariste Tshibangu-Kabamba[1], Norihiko Takeda[4], Yuki Sugiura[5], Yuko Nitahara[1], Yu Michimuko-Nagahara[1], Natsuko Kaku[1], Yoko Onizuka[6], Carmen Arias[7], Maricela Mejia[7], Karla Alas[7], Susana Peña[8], Yasuhiro Maejima[3], Issei Komuro[9], Junko Nakajima-Shimada[6], Yasutoshi Kido[1]

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GENOME ASSEMBLY OF TRYPANOSOMA CRUZI TULAHUEN STRAIN REVEALS HIGHLY ABUNDANT TRANSPOSABLE ELEMENTS ASSOCIATED WITH VARIABLE SURFACE PROTEINS

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One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

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ZOONOTIC HEPATITIS E VIRUS GENOTYPE 3 STRAIN DETECTED IN A CAPYBARA (HYDROCHOERIS HYDROCHAERIS) FECAL SAMPLE, BRAZIL

Adriana Luchs[1], Lia Cunha[1], Lais S. Azevedo[1], Vanessa CM Silva[1], Marcilio F. Lemos[1], Antonio C. da Costa[2], Adriana P. Compri[1], Yasmin França[1], Ellen Viana[1], Fernanda Malta[3], Roberta S. Medeiros[1], Raquel Guiducci[1], Simone G. Morillo[1], Michelle S. Gomes-Gouvea[2], Deyvid Amgarten[3], João Renato R. Pinho[3], Regina C. Moreira[1]

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ASYMPTOMATIC VISCERAL LEISHMANIASIS PREVALENCE IN MILITARY WORKING DOGS COMPARED TO SOLDIERS DEPLOYED TO IRAQ

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DOES CAVE USE POSE A RISK FOR PATHOGEN SPILL? A CASE OF CHEKWOPUTOI CAVE IN MT ELGON EASTERN UGANDA

Robert M. Kityo[1], Betty Nalikka[1], Bernad W. Matovu[1], Lilian P. Nalukenge[1], Jack M. Mutebi[1], Rebekah C. Kading[2], Natalie Wickenkamp[2], Kalani Williams[2], Emma K. Harris[2], Kevin Castle[3], Tanya Dewey[4]

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ACTIVITY PATTERNS OF INSECTIVOROUS BATS IN THE MT. ELGON REGION-UGANDA: IMPLICATION FOR DISEASE SURVEILLANCE

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FACTORS INFLUENCING BAT BORNE VIRAL PATHOGENS PREVALENCE AND SPILL OVER IN UGANDA: IMPLICATIONS FOR ONE HEALTH INITIATIVES

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PURCHASE, CONSUMPTION, AND OWNERSHIP OF CHICKENS AND CHICKEN PRODUCTS AMONG HOUSEHOLDS IN MAPUTO, MOZAMBIQUE: A CROSS-SECTIONAL STUDY

Kayoko Shioda[1], Frederica Lamar[2], Jhanel Chew[3], Hermógenes N. Mucache[4], Karen Levy[5], Matthew Freeman[3]

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HIGHLY PATHOGENIC AVIAN INFLUENZA A (H5N1) IN MARINE MAMMALS AND SEABIRDS IN PERU

Mariana Leguia[1], Alejandra Garcia-Glaessner[1], Breno Muñoz-Saavedra[1], Diana Juarez[1], Patricia Barrera[1], Carlos Calvo-Mac[2], Javier Jara[3], Walter Silva[3], Karl Ploog[3], Lady Amaro[3], Paulo Colchao-Claux[4], Marcela M. Uhart[5], Martha I. Nelson[6], Jesus Lescano[3]

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EXPLORING THE HEALTH SEEKING BEHAVIOR OF SNAKEBITE VICTIMS AND COMMUNITY PERCEPTIONS IN THE VOLTA AND OTI REGIONS OF GHANA

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PREVALENCE AND RISK FACTORS FOR HUMAN LEPTOSPIROSIS IN A PASTORALIST COMMUNITY, ENDULEN, TANZANIA

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PARASITOLOGICAL RISK AT THE INTERFACE WILDLIFE-DOMESTIC ANIMALS IN NAZINGA RANCH, BURKINA FASO

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CHARACTERISING PSYCHOSOCIAL IMPACT OF TUBERCULOSIS AND THE SOCIAL SUPPORT NEEDS FOR PEOPLE WITH TUBERCULOSIS IN INDONESIA

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HUMAN IMMUNODEFICIENCY VIRUS INFECTION AND DIABETES MELLITUS IN PEOPLE WITH TUBERCULOSIS IN ODISHA, INDIA

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Iris Kamilla Ottosen[1], Stina Josefine Karlsen[1], Patricia Ndhlovu[2], Solrun Søfteland[3], Saloshni Naidoo[4], Motshedisi Sebitloane[5], Pamela S. Mbabazi[6], Santiago Martinez[7], Takalani Nemungadi[4], Themba Ginindza[4], Fortunate Shabalala[8], Sakhile Masuku[8], Svein Gunnar Gundersen[9], Pavitra Pillay[10], Myra Taylor[4], Eyrun Floerecke Kjetland[3]

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POPULATION LEVEL IMPACT OF NOVEL DRUGS TARGETING JUVENILE SCHISTOSOMES ON CONTROL AND ELIMINATION OF SCHISTOSOMIASIS

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DEVELOPMENT OF ANTIGEN-BASED MULTIPLEX IMMUNODIAGNOSTICS FOR TWO PREDOMINANT SCHISTOSOMA PARASITES IN SUB-SAHARAN AFRICA

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(ACMCIP Abstract)

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DEVELOPMENT OF AN ELISA TO DETECT ANTIBODY TO SCHISTOSOMA JAPONICUM INFECTION USING A BACTERIAL EXPRESSED RECOMBINANT ANTIGEN SJ10.3

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POPULATION PHARMACOKINETICS OF PRAZIQUANTEL IN PRE-SCHOOL AGE CHILDREN PARTICIPANTS IN THE PRAZIQUANTEL IN PRESCHOOLERS (PIP) TRIAL

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THE PREVAILING INFECTION OF SCHISTOSOMA JAPONICUM AND OTHERZOONOTIC PARASITES INBUBALINE RESERVOIR HOSTS IN THE RICEFIELD OF LAKE ECOSYSTEM; A CASE IN LAKE MAINIT THE PHILIPPINES

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Dominic P. Dee[1], Germain Lam[1], Andrew Edielu[1], Victor Anguajibi[2], Emily L. Webb[3], Aidah Wamboko[4], Patrice A. Mawa[5], Jennifer F. Friedman[6], Amaya L. Bustinduy[1]
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A COMPLEX INTERPLAY BETWEEN FOOD, HEALTH AND LIVELIHOODS - LIVE FLUKE (OPISTHORCHIS VIVERRINI) IN NORTHEAST THAILAND

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USING MATHEMATICAL MODELS TO UNDERSTAND SCHISTOSOMIASIS TRANSMISSION IN A UGANDAN HOTSPOT

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MALE GENITAL SCHISTOSOMIASIS (MGS) AMONG LOCAL FISHERMEN ALONG SOUTH SHORELINE OF LAKE MALAWI IN MANGOCHI DISTRICT

Sekeleghe Amos Kayuni[1], Mohammad H. Alharbi[2], Adam Abdullahi[3], Peter Makaula[1], Fanuel Lampiao[4], Janelisa Musaya[1], E. James LaCourse[2], Jaco J. Verweij[5], Johnstone J. Kumwenda[4], Peter D.C. Leutscher[6], Anna Maria Geretti[7], J. Russell Stothard[2]

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PREVALENCE OF SCHISTOSOMIASIS & IMPLEMENTATION OF SCHISTOSOMA PREVENTION PROJECT IN GEZIRA STATE, SUDAN 2022-23

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EVALUATION OF THE BURDEN AND RISK FACTORS ASSOCIATED WITH FEMALE GENITAL SCHISTOSOMIASIS IN TWO ENDEMIC AREAS IN MALAWI AS PART OF THE MORBIDITY OPERATIONAL RESEARCH FOR BILHARZIASIS IMPLEMENTATION DECISIONS (MORBID) STUDY

Olimpia Lamberti[1], Sekeleghe Kayuni[2], Dingase Kumwenda[2], Varsha Singh[3], Veena Moktali[3], Neerav Dhanani[4], Els Wessels[5], Lisette Van Lieshout[3], Fiona M. Fleming[4], Themba Mzilahowa[2], Amaya Bustinduy[1]

[1]Department of Clinical Research, London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Centre for Health, Agriculture and Development Research and Consulting (CHAD), Blantyre, Malawi, [3]Department of Parasitology, Leiden University Medical Center, Leiden, Netherlands, [4]Unlimit Health, London, United Kingdom, [5]Department of Medical Microbiology, Leiden University Medical Center, Leiden, Netherlands

Water, Sanitation, Hygiene and Environmental Health

5678

PRESENCE OF SARS-COV-2 RNA IN DIFFERENT SOURCES OF WATER OF NEPAL

Sarmila Tandukar[1], Eiji Haramoto[1], Samendra Sherchan[2]

[1]Interdisciplinary Center for River Basin Environment, University of Yamanashi, Kofu, Japan, [2]Morgan State University, Baltimore, MD, United States

5679

POOR OUTDOOR BATHROOMS DRAINAGE SYSTEMS OF CHING'AMBO RESIDENTS IN MZUZU CITY AS A SAFE HAVEN AND TOOL FOR INCREASED EXPOSURE TO TROPICAL PARASITES

Vita Mithi[1], Sarah Eliza Dunn[2]

[1]Center for Life Toxicology Data, Mzuzu, Malawi, [2]Bayer/Crop Science Division, Chesterfield,, MO, United States

5680

SOCIOCULTURAL INFLUENCES ON ACCEPTANCE AND HEALTH RISK OF WATER RESOURCES IN REMOTE COMMUNITIES IN GHANA

Forgive A. Norvivor

University of Health and Allied Sciences, Ho, Ghana

5681

MOLECULAR DETECTION OF PATHOGENIC LEPTOSPIRA AND HELICOBACTER PYLORI IN ENVIRONMENTAL SPECIMENS COLLECTED FROM THE OPISTHORCHIASIS ENDEMIC AREAS AT KHON KAEN PROVINCE, THAILAND

Shih Keng Loong[1], Manop Sripa[2], Sangduan Wannachart[2], Laksika Phumipheng[2], Thanagorn Saykaew[2], Yuchen Liu[3], Sirikachorn Tangkawattana[2], Banchob Sripa[2]

[1]Universiti Malaya, Kuala Lumpur, Malaysia, [2]Khon Kaen University, Khon Kaen, Thailand, [3]University of Liverpool, Liverpool, United Kingdom

5682

ASSESSMENT OF THE MICROBIAL CONTAMINATION OF DELIVERY BOXES OF ONLINE FOOD DELIVERY SERVICES PROVIDERS IN ACCRA

Doreen Dedo Adi[1], Chris Y. Asare[2]

[1]Akenten Appiah-Menka University of Skills Training and Entrepreneurial Development, Kumasi, Ghana, [2]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

5683

INCREASING THE ACCESSIBILITY AND HANDWASHING PRACTICES THROUGH TIPPY TAPS IN CABO DELGADO PROVINCE, MOZAMBIQUE

Xavier Badia-Rius[1], James Mungai Waringa[2], Nelson Sequião[2], Maria Sacchetti[2], Anastácia Lidimba[3], Pablo Ignacio Eulogio de Sancha[2], Sérgio Lopes[1], Mussa M. Aly[4]

[1]The MENTOR Initiative, Haywards Heath, United Kingdom, [2]The MENTOR Initiative, Pemba, Mozambique, [3]Serviço Provincial de Saúde, Pemba, Mozambique, [4]Núcleo de Investigação Operacional de Pemba, Pemba, Mozambique

5684

WORK RELATED INJURIES; WHAT FACTORS DETERMINE ITS SEVERITY IN A LOW RESOURCE SETTING?

Regina Adiyah[1], Alfred Kwame Owusu[2], Francis Adjei Osei[1], Alexis Buunaaim[3]
[1]Centre for Research, Innovation and Development, Accra, Ghana, [2]Komfo Anokye Teaching Hospital, Accra, Ghana, [3]Tamale Teaching Hospital, Accra, Ghana

5685

ASSOCIATION OF PRENATAL ENVIRONMENT FACTORS WITH UNDER 5 NUTRITIONAL GROWTH OUTCOMES IN UGANDA

Paddy Ssentongo[1], Claudio Fronterre[2], Steven Schiff[3]
[1]Penn State Hershey Medical Center, Hershey, PA, United States, [2]Lancaster University, Lancaster, United Kingdom, [3]Yale University School of Medicine,, New Haven, CT, United States

5686

BARRIERS OF EFFECTIVE AND SUSTAINABLE WATER, SANITATION AND HYGIENE (WASH) SERVICES AT SCHOOLS IN BANGLADESH

Debashish Biswas[1], Md. Rofi Uddin[1], Jyoti Bhushan Das[1], Md. Asadullah[1], Mahbub-Ul Alam[1], Habibur Rahman[2], Pritum Kumar Saha[2], Emanuel Owako[3], Mahbubur Rahman[1]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Water & Sanitation for the Urban Poor (WSUP), Dhaka, Bangladesh, [3]Water & Sanitation for the Urban Poor (WSUP), London, United Kingdom

5687

EVALUATION OF A MULTI-LEVEL, PARTICIPATORY INTERVENTION TO REDUCE ARSENIC EXPOSURE IN AMERICAN INDIAN COMMUNITIES: A CLUSTER RANDOMIZED CONTROLLED TRIAL OF THE COMMUNITY-LED STRONG HEART WATER STUDY PROGRAM

Christine Marie George[1], Tracy Zacher[2], Kelly Endres[1], Francine Richards[2], Lisa Bear Robe[2], David Harvey[3], Lyle G. Best[2], Reno Red Cloud[4], Annabelle Black Bear[5], Steve Ristau[6], Dean Aurand[6], Leslie Skinner[5], Christa Cuny[7], Marie Gross[7], Elizabeth D. Thomas[1], Ana Rule[1], Kellogg Schwab[1], Lawrence H. Moulton[1], Marcia O'Leary[5], Ana Navas-Acien[8]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Missouri Breaks Industries Research Inc., Eagle Butte, SD, United States, [3]Indian Health Service, Rockville, MD, United States, [4]Environmental Resource Department, Oglala Sioux Tribe, Rapid City, SD, United States, [5]Missouri Breaks Industries Research, Inc, Eagle Butte, SD, United States, [6]Mid Continent Testing Labs, Inc, Rapid City, SD, United States, [7]Missouri Breaks Industries Research, Inc, Eagle Butte, SD, United States, [8]Columbia University Mailman School of Public Health, New York, NY, United States

Digital Education Committee Meeting

Michigan 1A - Concourse Level (East Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

Membership Committee Meeting

Michigan 1B - Concourse Level (East Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m.

Ben Kean Fellowship Committee Meeting

Michigan Boardroom - Concourse Level (East Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

Late-Breaker Session 28

LIVE STREAMING

Late-Breakers in Basic Science

Grand Ballroom CDEF - Ballroom Level (East Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR
Yai Justin Doritchamou
National Institute of Allergy and Infectious Disease, Bethesda, MD, United States

Ayman El-Badry
Cairo University, Kasr Al-Ainy Faculty of Medicine, Cairo, Egypt

Meet the Professors Session 29

Meet the Professors Session A – Dilemmas in Clinical Tropical Medicine

Grand Hall K - Ballroom Level (East Tower)
Thursday, October 19, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

Meet the Professors sessions are valuable learning experiences for trainees and practicing clinicians to hear about clinical reasoning from leaders in the field. In this session, Drs. McCarthy and Barry will present challenging and instructive clinical tropical medicine cases.

CHAIR
Daniel Leung
University of Utah, Salt Lake City, UT, United States

1:30 p.m.
PRESENTATION #1
Michele Barry
Dean's Office, Stanford University, Stanford, CA, United States

1:50 p.m.
PRESENTATION #2
Anne McCarthy
University of Ottawa, Ottawa, ON, Canada

Poster Session A Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Thursday, October 19, 1:45 p.m. – 3 p.m.

Plenary Session 30

Plenary Session II: Fred L. Soper Lecture

Grand Ballroom CDEF - Ballroom Level (East Tower)
Thursday, October 19, 1:45 p.m. - 2:30 p.m. U.S. Central Time Zone

The Fred L. Soper Lecture is an honor bestowed upon distinguished workers in environmental control or preventive medicine. Born in 1893, Dr. Soper received his MD from the University of Chicago and a doctorate in public health from Johns Hopkins University in 1925. He began his career working with the Rockefeller Foundation on hookworm control in Brazil. Soper headed an international group that did revolutionary work in research and control of yellow fever in South America, and eventually became director of the Pan American Health Organization. Dr. Soper died in 1977. The first Lecture was delivered by Thomas Weller in 1978, former president of ASTMH and winner of the 1954 Nobel Prize in Medicine or Physiology, in celebration of the 40th anniversary of the Gorgas Memorial Laboratory. The lecture is now a biannual event for ASTMH and focuses on a topic related to environmental control and preventive medicine.

CHAIR
Albert Icksang Ko
Yale School of Public Health, New Haven, CT, United States

1:45 p.m.
INTRODUCTION
Albert Icksang Ko
Yale School of Public Health, New Haven, CT, United States

2 p.m.
FRED L. SOPER LECTURE: MILES TO GO: VACCINES FOR ENTERIC INFECTIONS

Gagandeep Kang, MBBS, MD, PhD, FRCPath
Director EDGE, Global Health
Bill & Melinda Gates Foundation
Seattle, Washington

Professor Gagandeep Kang received her training in medicine and microbiology at the Christian Medical College, Vellore and postdoctoral training the UK and US before returning to India to continue her work on enteric infections in children. With Indian and global collaborators, Professor Kang has worked on the development and use of vaccines for rotaviruses, cholera and typhoid, conducting large studies to define burden, test vaccines and conduct the comprehensive studies required for introduction into the national immunization program. Post-introduction, her group were the first to conduct studies in India to measure rotavirus vaccine safety and measure impact. With ancillary community-based research, she has shown that infections in early life impact nutrition, future growth and cognitive development. During the peak of the COVID-19 pandemic, she became a trusted voice for science communication in India. Following her 35-year career in medicine and public health in India, Professor Kang joined the Bill & Melinda Gates Foundation in 2023 to continue and expand her efforts to address infectious diseases in India and globally. She is the first woman from India to be elected a Fellow of the Royal Society and a fellow of the American Academy of Microbiology and the second elected to the US National Academy of Medicine.

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Thursday, October 19, 2:15 p.m. - 3:15 p.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower)
Thursday, October 19, 2:30 p.m. - 3 p.m. U.S. Central Time Zone

Symposium 31

Science Under Assault

Grand Ballroom A - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. United States Central Time Zone

This session does not carry CME credit.

Science can be defined as the pursuit and application of knowledge and understanding of the natu-ral and social world following a systematic methodology based on evidence. Increasing political po-larization, compounded by the global stress of the COVID-19 pandemic, has engendered a wave of skepticism regarding the value of scientific evidence and the scientific process, including at times at the highest levels of political leadership. The consequences can be severe, and have included, for example, resistance to vaccination, which not only impeded control of the COVID-19 pandemic, but also opened the door to transmission of various vaccine preventable illnesses that had not been seen in certain regions for decades. Not only has the value of science been diminished in the eyes of many but, facilitated by modern social media, leading scientists and public health experts have often become the targets of intense criticism and violent rhetoric, sometimes even requiring physical protection. This enhancing skepticism of science and scientists threatens what has been the foundation for most of the world's civilizations for centuries, if not millennia. In this symposi-um, a panel of public health leaders, many of whom have been not only leading voices in the sci-ences, but also often the targets of the skeptics, and communications experts will discuss this con-cerning trend, and how to chart a path back to respectful discourse and appreciation for science and scientists.

CHAIR
Daniel G. Bausch
FIND, Geneva, Switzerland

3 p.m.
INTRODUCTION

3:05 p.m.

MODERATOR
Richard Baron
Coalition for Trust in Health and Science, Washington, DC, United States

PANELISTS
Daniel G. Bausch
FIND, Geneva, Switzerland

Peter Daszak
EcoHealth Alliance, New York, NY, United States

Peter Hotez
National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States

Carol Schadelbauer
Burness, Bethesda, MD, United States

Symposium 32

Approaching Malaria Elimination in Cambodia: Progress and Challenges

Grand Ballroom B - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Malaria in Cambodia has decreased by 90.8% between 2010 and 2020, driven by the commitment of the National Center for Parasitology, Entomology and Malaria (CNM). Cambodia aims to eliminate *Plasmodium falciparum* malaria by 2023, and all species of malaria, including *Plasmodium vivax*, by 2025. Challenges remain in preventing malaria re-introduction in elimination areas and scaling up elimination efforts nationally and within specific high-risk populations, such as forest workers and mobile and migrant populations. Artemisinin resistance and partner drug resistance continues to present a threat to malaria elimination efforts if parasites become resistant to the partner drug, yet again. Rotating artemisinin-based combination therapies (ACTs) is logistically challenging and delays could result in patients being treated with suboptimal ACTs leading to a resurgence of *P. falciparum* malaria. As *P. falciparum* malaria cases have decreased in Cambodia, infection has become increasingly focal in hotspots across the country and in populations that are routinely harder to reach. *P. vivax* has become the prominent species causing malaria in Cambodia. Vivax malaria is more difficult than falciparum to eliminate because of the dormant hypnozoites. In this symposium we will present the overall plan of CNM to achieve malaria elimination within the next few years and discuss progress and challenges. We will present data from a randomized, controlled, clinical trial with artemether-lumefantrine and amodiaquine (ALAQ) that demonstrates the safety, tolerability and efficacy of a triple ACT, that could become available for deployment before novel antimalarials become available, and could provide a tool to be used instead of another rotation of ACTs. We will present a study on antimalarial chemoprophylaxis in forest-goers with artemether-lumefantrine, that was acceptable, feasible and well-tolerated and substantially reduced malaria prevalence among forest goers. We will also present the development of a panel of serological exposure markers (SEMs) to *P. vivax* infection for the identification of people at risk of carrying clinically silent hypnozoites to be targeted with anti-hypnozoite therapy. We will describe the application of this SEM panel to a longitudinal cohort that tested the feasibility of a serological and testing approach in remote, resource-limited settings in rural Cambodia. Community engagement has increasingly received attention in malaria research and program interventions, particularly as countries aim for malaria elimination. We present a novel approach by engaging Cambodian youth to sustain malaria elimination activities and will present their opinions and perspectives via video recordings.

CHAIR
Arjen M. Dondorp
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Chanaki Amaratunga
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

3 p.m.
INTRODUCTION

3:10 p.m.
IMPLEMENTATION OF NOVEL STRATEGIES TO ELIMINATE MALARIA IN CAMBODIA
Dysoley Lek
National Center for Parasitology, Entomology and Malaria Program, Phnom Penh, Cambodia

3:30 p.m.
SAFETY, TOLERABILITY AND EFFICACY OF ARTEMETHER-LUMEFANTRINE+AMODIAQUINE IN CAMBODIA
Chanaki Amaratunga
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

3:50 p.m.
ANTIMALARIAL CHEMOPROPHYLAXIS FOR FOREST GOERS IN CAMBODIA
Rupam Tripura
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

4:10 p.m.
ASSESSING THE SPECIFICITY, SENSITIVITY AND FEASIBILITY OF A SEROLOGICAL TESTING AND TREATMENT APPROACH TO ELIMINATE *P. VIVAX* IN CAMBODIA
Costanza Tacoli
Pasteur Institute of Cambodia, Phnom Penh, Cambodia

4:30 p.m.
EMBEDDING THE VOICES OF CAMBODIAN YOUTH IN MALARIA RESEARCH
Phaik Yeong Cheah
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Symposium 33

A Global Health Two-fer: How Integrating Health Campaigns Delivers on Both Desired Programmatic Intervention Coverage and Greater Sustainability

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

To meet goals of universal health coverage, many countries rely on both facility- and community-based health services and campaigns. Campaigns are time-limited, targeted, intermittent activities that are implemented to address specific health needs, fill delivery gaps, or provide surge coverage for health interventions. Campaigns are used to prevent, control, and in some cases even eliminate malaria and neglected tropical diseases, vaccine preventable diseases, malnutrition, and vitamin deficiency. Since 2020, more than 450 health campaigns have been conducted worldwide each year, totaling almost $10 billion. Health campaigns occur within vertical (disease-specific) programs, often externally funded, and planned and implemented independently from one another and from primary health care services, with little communication, coordination, or collaboration. Strategic and operational inefficiencies and inequities may result, which strain health systems, burden health care workers, and limit campaigns' impact. There is increasing recognition that collaborative and integrated approaches to campaign planning, implementation, and monitoring—whether between campaigns in different health programs or in greater linkages with primary health care system—may increase campaigns' effectiveness and sustainability. Public health agencies implementing these changes need guidance and advice on how to conduct integration or transition efficiently and effectively. What challenges can be anticipated and how can they be addressed? What opportunities may arise to circumvent known financial barriers and disincentives to strengthen inter-agency collaboration? What tools exist to aid campaign managers? How can a primary healthcare system be assessed for readiness in taking on campaign activities and services? This symposium will cover much ground as we provide: (1) an overview of the health campaign integration and mainstreaming landscape, including promising practices from a synthesis of implementation research studies on campaign integration and transition to primary health care; (2) share a landscape analysis of campaign financing and the rationale for integration, including key financial barriers and disincentives as well as opportunities for action; (3) describe the acceptability, feasibility, efficacy and challenges of a pilot study integrating nutrition assessments and immunizations into SMC campaigns in Guinea; (4) present a readiness assessment of NTD campaign mainstreaming at all levels and in diverse regions of Ethiopia; and (5) an evaluation of mainstreaming of mass drug administrations for soil transmitted helminthiasis and schistosomiasis (NTD) campaign with handover to government agencies in Nigeria.

CHAIR
Richard Reithinger
RTI International, Washington, DC, United States
Kristin Saarlas
Task Force for Global Health, Decatur, GA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
OVERVIEW OF THE HEALTH CAMPAIGN EFFECTIVENESS COALITION: PROMISING PRACTICES AND TOOLS FOR CAMPAIGN INTEGRATION AND MAINSTREAMING/LINKAGES WITH THE PRIMARY HEALTHCARE SYSTEM FROM IMPLEMENTATION RESEARCH PROJECTS IN 14 COUNTRIES
Kristin Saarlas
The Task Force for Global Health, Decatur, GA, United States

3:25 p.m.
FINANCING OF HEALTH CAMPAIGNS AND INTEGRATION: A LANDSCAPE ANALYSIS
Annette Ozaltin
Independent Health Finance Consultant, Washington, DC, United States

3:40 p.m.
INTEGRATION OF NUTRITIONAL ASSESSMENTS AND IMMUNIZATION INTO SEASONAL MALARIA CHEMOPREVENTION CAMPAIGNS
Alioune Camara
National Malaria Control Program, Conakry, Guinea

3:55 p.m.
READINESS ASSESSMENT FOR NTD CAMPAIGN MAINSTREAMING IN ETHIOPIA
Teshome Gebre
International Trachoma Initiative, Addis Ababa, Ethiopia

4:10 p.m.
EFFECTS OF TRANSITION TO COUNTRY OWNERSHIP OF INTEGRATED NTD MASS DRUG ADMINISTRATION IN NIGERIA
Emmanuel Emukah
The Carter Center, Abuja, Nigeria

Scientific Session 34

LIVE STREAMING

Malaria - Drug Development and Clinical Trials

Grand Ballroom CDEF - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
David Saunders
U.S. Army, Rockville, MD, United States
Luana Ortolan
Seattle Children's Research Institute, Seattle, WA, United States

3 p.m. 5688

A CLUSTER RANDOMIZED CONTROLLED NON-INFERIORITY TRIAL TO COMPARE THE PROTECTIVE EFFECTIVENESS OF SULFADOXINE PYRIMETHAMINE AND AMODIAQUINE AND DIHYDROARTEMISININ PIPERAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION AMONG CHILDREN 3 TO 59 MONTHS, IN THE CONTEXT OF HIGH PARASITE RESISTANCE, KARAMOJA REGION, UGANDA

Anthony Nuwa[1], Richard Kajubi[1], Craig Bonnington[2], Kevin N. Baker[2], Chuks Nnaji Nnaji[2], Musa Odongo[1], Tonny Kyagulanyi[1], Jane I. Nabakooza[3], David S. Odong[1], Denis Rubahika[3], Maureen Nakirunda[1], Godfrey Magumba[1], Madeleine Marasciulo-Rice[4], Jane Achan[2], Christian Rassi[5], Erica Viganó[2], Jennifer Ainsworth[2], Damian Rutazaana[3], Jimmy Opigo[3], James K. Tibenderana[2]

[1]Malaria Consortium, Kampala, Uganda, [2]Malaria Consortium, London, United Kingdom, [3]Ministry of Health, Uganda, Kampala, Uganda, [4]Malaria Consortium, Raleigh, NC,, NC, United States, [5]Malaria Consortium, London, Uganda

3:15 p.m. 5689

MATAMAL: A CLUSTER - RANDOMIZED PLACEBO-CONTROLLED TRIAL TO EVALUATE THE ADDITIVE IMPACT OF IVERMECTIN TO DIHYDROARTEMISININ-PIPERAQUINE SEASONAL MASS DRUG ADMINISTRATION FOR MALARIA CONTROL ON THE BIJAGOS ARCHIPELAGO OF GUINEA-BISSAU

Harry Hutchins[1], John Bradley[1], Elizabeth Pretorius[1], Eunice Teixeira da Silva[2], Hristina Vasileva[1], Robert T. Jones[1], Mamadou Ousmane Ndiath[3], Harouna dit Massire Soumare[3], David Mabey[1], Jose Ernesto Nante[4], Cesario Martins[2], James G. Logan[1], Hannah Slater[5], Chris Drakeley[1], Umberto D'Alessandro[3], Amabelia Rodrigues[2], Anna Last[1]

[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Projecto de Saude Bandim, Bissau, Guinea-Bissau, [3]Medical Research Council Unit, The Gambia, Fajara, Gambia, [4]Ministério de Saúde, Bissau, Guinea-Bissau, [5]PATH, Seattle, WA, United States

3:30 p.m. 5690

MONITORING SUSTAINED IMPACT ONE YEAR AFTER MASS DRUG ADMINISTRATION IN A LOW-MODERATE MALARIA TRANSMISSION SETTING OF SENEGAL WITH OPTIMIZED CONTROL INTERVENTIONS

Abdoulaye Diallo[1], Ari Fogelson[2], El-hadji Ba Konko Ciré[1], Amadou Seck[1], Tidiane Gadiaga[3], Michelle E. Roh[4], Sylla Thiam[1], Seynabou Gaye[5], Ibrahima Diallo[5], Aminata Colle Lo[1], Elhadji Diouf[1], Omar Gallo Ba[1], Alioune Badara Gueye[6], Xue Wu[4], Paul Milligan[2], Erin Eckert[4], Roly Gosling[2], Adam Bennett[4], Jimee Hwang[7], Doudou Sene[5], Fatou Ba[5], Serigne Amdy Thiam[5], Bayal Cisse[3], Katharine Sturm-Ramirez[8], Jean Louis Ndiaye[1], Michelle Hsiang[4]

[1]Université Iba Der Thiam de Thiès, Thiès, Senegal, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]District of Tambacounda, Ministry of Health and Social Action, Tambacounda, Senegal, [4]US President's Malaria Initiative, Impact Malaria, Washington, DC, United States, [5]Senegal National Malaria Control Programme, Ministry of Health and Social Action, Dakar, Senegal, [6]US President's Malaria Initiative, United States Agency for International Development, Dakar, Senegal, [7]US President's Malaria Initiative, US Centers for Disease Control and Prevention, Atlanta, GA, United States, [8]US President's Malaria Initiative, US Centers for Disease Control and Prevention, Dakar, Senegal

3:45 p.m. 5691

TREATMENT OF UNCOMPLICATED MALARIA USING ARTEMISININ-BASED COMBINATION THERAPY IN THE FIRST TRIMESTER OF PREGNANCY: EXPERIENCE FROM TANZANIA

Abdallah Lusasi[1], Geofrey Makenga[2], Sijenunu Aaron[1], Samwel Lazaro[1], Frank Chacky[1], Naomi Serbantez[3], Sigsbert Mkude[2], Fabrizio Molteni[4], Chonge Kitojo[3]

[1]National Malaria Control Programme, Dodoma, United Republic of Tanzania, [2]Population Services International (PSI), Dar es Salaam, United Republic of Tanzania, [3]U.S. President's Malaria Initiative, USAID, Dar es Salaam, United Republic of Tanzania, [4]Swiss Tropical Public Health Institute, Dar es Salaam, United Republic of Tanzania

4 p.m. 5692

ANTI-GAMETOCYTE ACTIVITY AND POST-TREATMENT PROTECTIVE EFFICACY OF ARTEMETHER-LUMEFANTRINE VS. DIHYDROARTEMISININ-PIPERAQUINE FOR UNCOMPLICATED MALARIA: PRELIMINARY RESULTS OF A MULTI-DOSE PHARMACOKINETIC/PHARMACODYNAMIC TRIAL

Jean-Bertin B. Kabuya[1], Jay Sikalima[2], Luc Kambale Kamavu[3], Proscovia Miiye Banda[3], Amary Fall[4], Heba H. Mostafa[4], Liusheng Huang[5], Francesca Aweeka[5], Jeffrey A. Bailey[6], Jonathan J. Juliano[7], Philip E. Thuma[8], Gershom Chongwe[1], Theresa A. Shapiro[4], William J. Moss[9], Matthew M. Ippolito[4]

[1]Tropical Diseases Research Centre, Ndola, Zambia, [2]CHAZ, Lusaka, Zambia, [3]Saint Paul's General Hospital, Nchelenge, Zambia, [4]Johns Hopkins School of Medicine, Baltimore, MD, United States, [5]University of California, San Francisco, San Francisco, CA, United States, [6]Brown University, Providence, RI, United States, [7]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [8]Macha Research Trust, Macha, Zambia, [9]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4:15 p.m. 5693

PHARMACOMETRIC ASSESSMENT AND DOSE-OPTIMIZATION OF PRIMAQUINE IN THE RADICAL CURE OF *PLASMODIUM VIVAX* MALARIA IN CHILDREN: AN INDIVIDUAL PATIENT DATA META-ANALYSIS

Joel Tarning[1], Palang Chotsiri[1], Kanoktip Puttaraksa[1], Robert J. Commons[2], Julie A. Simpson[3], Karen I. Barnes[4], Philippe J. Guerin[5], ric N. Price[2], Paediatric Primaquine Study Group[5]

[1]Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, [2]Global Health Division, Menzies School of Health Research, Charles Darwin University, Darwin, Australia, [3]Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health, University of Melbourne, Melbourne, Australia, [4]University of Cape Town, Cape Town, South Africa, [5]WorldWide Antimalarial Resistance Network, Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom

4:30 p.m. 5694

FDA-APPROVED KINASE INHIBITORS AS POTENTIAL ADJUNCTIVE THERAPY CANDIDATES FOR ENDOTHELIAL DYSFUNCTION IN CEREBRAL MALARIA

Luana S. Ortolan[1], Priyanka Bansal[1], Veronica Primavera[1], Sabrina Epiphanio[2], Alexis Kaushansky[1], Joseph D. Smith[1]

[1]Seattle Children's Research Institute, Seattle, WA, United States, [2]Universidade de Sao Paulo, Sao Paulo, Brazil

Scientific Session 35

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Protozoan Immunology

Grand Hall K - Ballroom Level (East Tower)

Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Manuel Llinas
Pennsylvania State University, University Park, PA, United States

Dylan Pillai
University of Calgary, Calgary, AB, Canada

3 p.m. **5695**

MULTI-OMIC PROFILING OF CUTANEOUS LEISHMANIASIS INFECTIONS REVEALS MICROBIOTA-DRIVEN MECHANISMS UNDERLYING DISEASE SEVERITY

Camila Farias Amorim[1], Victoria M. Lovins[2], Tej Pratap Singh[1], Fernanda O. Novais[3], Jordan C. Harris[2], Alexsandro S. Lago[4], Lucas P. Carvalho[4], Edgar M. Carvalho[4], Daniel P. Beiting[1], Phillip Scott[1], Elizabeth A. Grice[2]
[1]Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA, United States, [2]Department of Dermatology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States, [3]3Department of Microbial Infection and Immunity, College of Medicine, The Ohio State University, Columbus, OH, United States, [4]Laboratório de Pesquisas Clínicas do Instituto de Pesquisas Gonçalo Muniz – Fiocruz, Salvador, Brazil

3:15 p.m. **5696**

REPROGRAMMING EIF4A-DEPENDENT MRNA TRANSLATION TO CONTROL LEISHMANIA INFECTION

Leonardo Cortazzo da Silva[1], Camila Almeida Cardoso[1], Visnu Chaparro[1], Louis-Phillipe Leroux[1], Amin Azimin[2], Reza Salavati[2], Jerry Pelletier[2], Lauren Brown[3], John Porco[3], Maritza Jaramillo[1]
[1]INRS – Centre Armand-Frappier Santé Biotechnologie, Laval, QC, Canada, [2]McGill University, Montreal, QC, Canada, [3]Boston University, Boston, MA, United States

3:30 p.m. **5697**

BORRELIA BURGDORFERI CO-EXPOSURE ENHANCES *IN VITRO* HOST CELL SUSCEPTIBILITY TO L. INFANTUMAND INDUCES TH17-LIKE CELL RESPONSES IN L. INFANTUM-SEROPOSITIVE DOGS

Danielle Pessoa-Pereira[1], Breanna M. Scorza[1], Karen Cyndari[2], Erin A. Beasley[1], Christine A. Petersen[1]
[1]University of Iowa, Iowa City, IA, United States, [2]University of Iowa Hospitals and Clinics, Iowa City, IA, United States

3:45 p.m. **5698**

STAT6-DEPENDENT/IL-5-MEDIATED EOSINOPHILIA PRIMED BY PRE-EXPOSURE TO UNINFECTED SANDFLY VECTOR BITES ENHANCE SUBSEQUENT LEISHMANIA INFECTION

Chukwunonso O. Nzelu[1], Matheus B. H. Carneiro[1], Claudio Meneses[2], Gabriella Gee[1], Leon Melo[1], Nathan C. Peters[1]
[1]Snyder Institute for Chronic Diseases, Department of Microbiology, Immunology, and Infectious Diseases, Cumming School of Medicine and Faculty of Veterinary Medicine, University of Calgary, Canada, Calgary, AB, Canada, [2]Vector Molecular Biology Section, Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, USA, Rockville, MD, United States

4 p.m. **5699**

DISSECTING PROTECTIVE NK CELL RESPONSES TO TRYPANOSOMA CRUZI INFECTION IN THE HUMAN SKIN

Jessica Barton[1], Keshia Kroh[1], Helena Fehling[2], Hanna Lotter[2], Andrea Vanegas Ramirez[3], Beate Volkmer[4], Rüdiger Greinert[4], Thomas Jacobs[1], **Rosa I. Gálvez**[1]
[1]Protozoa Immunology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [2]Department of Molecular Biology and Immunology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [3]Department of Dermatology, Bundeswehr Hospital Hamburg & Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [4]Centre of Dermatology, Elbe Clinics Buxtehude, Buxtehude, Germany

4:15 p.m. **5700**

INHIBITION OF SRC SIGNALING INDUCES AUTOPHAGIC KILLING OF TOXOPLASMA GONDII INDEPENDENT OF EGF RECEPTOR

Alyssa Hubal[1], Jose-Andres Portillo[1], Anusha Vendhoti[1], Sarah Vos[1], Charles Shaffer[2], Carlos Subauste[1]
[1]Case Western Reserve University School of Medicine, Cleveland, OH, United States, [2]Case Western Reserve University, Cleveland, OH, United States

4:30 p.m. **5701**

LOSS OF SIGLEC-7 CORRELATES WITH ENHANCED NATURAL KILLER CELL FUNCTION AND PROTECTION FROM MALARIA SYMPTOMS

Jenna Dick[1], Jules Sangala[1], Benjamin Zandstra[1], Peter Crompton[2], Geoffrey Hart[1]
[1]University of Minnesota, Minneapolis, MN, United States, [2]National Institutes of Health, Bethesda, MD, United States

Symposium 36

Neurocysticercosis: An Inflammatory Topic

Grand Hall L - Ballroom Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Neurocysticercosis (NCC) is the most common helminthic infection of the central nervous system caused by the larval stage of the pork tapeworm, Taenia solium. The clinical manifestations are pleomorphic and dependent on location, stage of parasite and burden of disease. The host inflammatory response is critical to both the presentation and response to treatment, but not well understood. There is increasing evidence that calcified NCC plays a large role in both cause and maintenance of seizures and epilepsy. Emerging data also suggests a causal association between inflammation due to calcified parenchymal NCC, perilesional edema and seizures. This symposium will bring participants up to date on the current knowledge of inflammation in NCC using both the animal model and clinical cases to lay the groundwork for a discussion on the role of anti-inflammatory agents and their use in the treatment of NCC.

CHAIR

Christina Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

Hector H. Garcia
Universidad Peruana Cayetano Heredia, Lima, Peru

3 p.m.
INTRODUCTION

3:10 p.m.
UNDERSTANDING TREATMENT RELATED BRAIN INFLAMMATION IN NEUROCYSTICERCOSIS: DATA FROM ANIMAL MODEL

Manuela Verastegui
Universidad Peruana Cayetano Heredia, Lima, Peru

3:40 p.m.
INFLAMMATION DRIVING THE CLINICAL PRESENTATION IN NCC: LESSONS FROM THE BEDSIDE

Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

4 p.m.

PERILESIONAL EDEMA AROUND CALCIFIED CYSTICERCOSIS LESIONS

Hector Garcia
Universidad Peruana Cayetano Heredia, Lima, Peru

4:20 p.m.

MODULATING THE HOST RESPONSE IN NEUROCYSTICERCOSIS

Theodore E. Nash
National Institutes of Health, Bethesda, MD, United States

Scientific Session 37

Bacteriology: Cholera

Plaza Ballroom - Lobby Level (East Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Wilfredo Rafael Matias
Massachusetts General Hospital, Boston, MA, United States

Denise Chac
University of Washington, Seattle, WA, United States

3 p.m. 5702

GUT MICROBIOTA-DERIVED METABOLITES ALTER HUMAN-DERIVED MACROPHAGE STIMULATION AND MAY INCREASE IMMUNE RESPONSES TO ORAL CHOLERA VACCINE

Denise Chac[1], Susan M. Markiewicz[1], Ashraful I. Khan[2], Fahima Chowdhury[2], Emily Pruitt[1], Taufiqur R. Bhuiyan[2], Regina C. LaRocque[3], Jason B. Harris[3], Libin Xu[1], Edward T. Ryan[3], Firdausi Qadri[2], Ana A. Weil[1]
[1]University of Washington, Seattle, WA, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [3]Massachusetts General Hospital, Boston, MA, United States

3:15 p.m. 5703

ASCERTAINING TRUE CHOLERA BURDEN AND SUBNATIONAL CHOLERA RISK WITH A NOVEL CONTINUOUS DISEASE ENDEMICITY INDEX

Neda Jalali[1], Sandra Mendoza Guerrero[2], Andrew Azman[3], Elizabeth Lee[3], Steven Stoddard[4], Sean Moore[1]
[1]University of Notre Dame, South Bend, IN, United States, [2]Emergent BioSolutions, Gaithersburg, MD, United States, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [4]Emergent BioSolutions, Redwood City, CA, United States

3:30 p.m. 5704

ENHANCED CHOLERA SURVEILLANCE AS A TOOL FOR IMPROVING VACCINATION CAMPAIGN EFFICIENCY

Hanmeng Xu[1], Kaiyue Zou[1], Juan Dent[1], Kirsten E. Wiens[2], Espoir B. Malembaka[1], Lee Hampton[3], Andrew S. Azman[1], Elizabeth C. Lee[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Temple University, Philadelphia, PA, United States, [3]Gavi, the Vaccine Alliance, Geneva, Switzerland

3:45 p.m. 5705

RE-EMERGENCE OF CHOLERA IN HAITI LINKED TO ENVIRONMENTAL V. CHOLERAE O1 OGAWA STRAINS

Carla N. Mavian[1], Massimiliano Tagliamonte[1], Meer T. Alam[1], Nazmus Sakib[1], Melanie N. Cash[1], Juan Perez Jimenez1[1], Alberto Riva[1], Eric J. Nelson[1], Emilie T. Cato[1], Jayakrishnan Ajayakumar[2], Andrew Curtis[2], V. Madsen Beau De Rochars[1], Vanessa Rouzier[3], Jean William Pape[3], J. Glenn Morris Jr[1], Marco Salemi[1], Asfar Ali[1]
[1]University of Florida, Gainesville, FL, United States, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Weill Cornell Medical College, Les Centres GHESKIO Haiti, New York, NY, United States

4 p.m. 5706

EFFECTIVENESS OF THE EUVICHOL® ORAL CHOLERA VACCINE AT 2 YEARS: A CASE-CONTROL AND BIAS-INDICATOR STUDY IN HAITI

Wilfredo R. Matias[1], Yodeline Guillaume[1], Gertrude Cene Augustin[2], Kenia Vissieres[2], Ralph Ternier[2], Damien M. Slater[1], Jason B. Harris[1], Molly F. Franke[3], Louise C. Ivers[1]
[1]Massachusetts General Hospital, Boston, MA, United States, [2]Zanmi Lasante, Port-au-Prince, Haiti, [3]Harvard Medical School, Boston, MA, United States

4:15 p.m. 5707

THE EFFECTIVENESS OF ONE DOSE OF ORAL CHOLERA VACCINE: MATCHED CASE-CONTROL STUDIES FROM UVIRA, DEMOCRATIC REPUBLIC OF CONGO

Espoir Bwenge Malembaka[1], Patrick Musole Bugeme[1], Chloe Hutchins[2], Hanmeng Xu[1], Juan Dent Husle[1], Maya N. Demby[1], Karin Gallandat[2], Jaime M. Saidi[3], Baron Bashige Rumedeka[1], Moïse Itongwa[1], Esperance Tshiwedi[4], Faida Kitoga[4], Amanda K. Debes[5], Justin Lessler[6], Oliver Cumming[2], Placide O. Welo[7], Daniel Mukadi-Bamuleka[4], Jackie Knee[2], Andrew S. Azman[1]
[1]Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Department of Disease Control, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Zone de Santé d'Uvira, Ministère de la Santé Publique, Uvira, Democratic Republic of the Congo, [4]Institut National de Recherche Biomédicale, Goma, Democratic Republic of the Congo, [5]Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [6]Department of Epidemiology, Gillings School of Global Public Health, and University of North Carolina Population Center, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [7]PNECHOL-MD, Community IMCI, Ministry of Health, Kinshasa, Democratic Republic of the Congo

4:30 p.m. 5708

SINGLE DOSE ORAL VAXCHORA VACCINE (CVD103-HGR) FOR THE PREVENTION OF CHOLERA IN TRAVELERS

James M. McCarty[1], Lisa Bedell[2]
[1]Stanford University, Stanford, CA, United States, [2]Emergent BioSolutions, Gaithersburg, MD, United States

Symposium 38

Clinical Pearls in the Diagnosis and Management of Tropical Infections

Crystal Ballroom A - Lobby Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

This session will cover relevant topics related to neglected infectious and tropical diseases prevalent in the region. This session is aimed to infectious disease specialists in general. This symposium will address the following topics: the impact of erroneous or delayed treatment of neglected infectious and tropical diseases and management of hepatic hydatid disease;

the treatment challenges of hepatic hydatid disease and endemic mycoses of Latin America; the most important clinical pearls to recognize endemic mycoses in Latin America and diagnosis and management of patients with complicated cutaneous and mucocutaneous leishmaniasis. In addition, the symposium will review the treatment challenges of complicated leishmaniasis and free-living amoebas: Balamuthia mandrilaris; the diagnosis pearls and treatment available for Balamuthia mandrilaris and how to overcome challenges in the management of P. vivax malaria, as well as current developments and future directions. Finally, the symposium will explore the treatment challenges of P. vivax malaria, including the appropriate use of antimalarial drugs and measures to prevent relapse and transmission. The session will conclude with a roundtable discussion that will allow participants to ask some questions on the topics discussed, as well as the speakers emphasizing key messages.

CHAIR

Theresa J. Ochoa
Universidad Peruana Cayetano Heredia, Lima, Peru

Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

3 p.m.
INTRODUCTION

3:10 p.m.
MANAGEMENT OF HEPATIC HYDATID DISEASE
Pedro Legua
Universidad Peruana Cayetano Heredia, Lima, Peru

3:25 p.m.
ENDEMIC MYCOSES OF LATIN-AMERICAN
Carlos Seas
Universidad Peruana Cayetano Heredia, Lima, Peru

3:40 p.m.
DIAGNOSIS AND MANAGEMENT OF PATIENTS WITH COMPLICATED CUTANEOUS AND MUCOCUTANEOUS LEISHMANIASIS
Martin Montes
Universidad Peruana Cayetano Heredia, Lima, Peru

3:55 p.m.
FREE-LIVING AMOEBAS: BALAMUTHIA MANDRILARIS
Eduardo Gotuzzo
Universidad Peruana Cayetano Heredia, Lima, Peru

4:10 p.m.
OVERCOMING CHALLENGES IN THE MANAGEMENT OF *P. VIVAX* MALARIA: CURRENT DEVELOPMENT AND FUTURE DIRECTION
Sapha Barkati
Universidad Peruana Cayetano Heredia, Lima, Peru

Symposium 39

American Committee on Clinical Tropical Medicine and Travelers' Health (Clinical Group - ACCTMTH) Symposium I: Vincenzo Marcolongo Lecture: Dengue - The Latest in Vaccines and Other Prevention Tools

Crystal Ballroom B - Lobby Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Supported with funding from the International Association for Medical Assistance to Travellers (IAMAT)

This session features the Vincenzo Marcolongo Lecture, which honors Dr. Vincenzo Marcolongo, the founder of IAMAT - the International Association for Medical Assistance to Travelers in 1960. Dr. Marcolongo's lifelong work was devoted to the medical needs of travelers. Through IAMAT and numerous publications, Dr. Marcolongo worked tirelessly to inform travelers of health risks and raise awareness of travelers' health. His foresight, compassion and generosity continue to serve as inspiration for IAMAT's work. To quote Dr. Vincenzo Marcolongo, "Distinguished physicians and respected medical institutions, with a sense of solidarity which makes them like one family, are now working in harmony to assist the traveler who may require medical assistance on his journey... The need for peace and understanding between the peoples of the world has never been as great as now. Peace can come only with understanding, and travel is an important means of acquiring it."

The incidence of dengue fever worldwide continues to increase, and about half of the world's population is at risk, with an estimated 100-400 million infections per year. Dengue fever remains an ongoing challenge for endemic disease transmission in over 100 countries in parts of Africa, east Asia, the eastern Mediterranean, and South America as well as for travelers to these endemic areas. International travel and trade are facilitating the geographical spread of mosquito vectors and the introduction of dengue to new areas. Although much of the illness is on the milder spectrum, for severe or life-threatening dengue, early access to care and judicious fluid management can be lifesaving, especially given the lack of targeted therapeutics. Increased understanding of dengue epidemiology and immune response, as well as the availability of partially effective vaccines, candidate vaccines in the pipeline, and novel approaches to mosquito control have the potential to inform and significantly improve the effectiveness of dengue control. Gabriela Paz Bailey will deliver the Marcolongo Lecture and provide an update on the latest trends in dengue epidemiology and risk, as well as new information related to mosquito control efforts and vaccines.

CHAIR
Mark Kortepeter
USUHS, Bethesda, MD, United States

3 p.m.
INTRODUCTION TO VINCENZO MARCOLONGO LECTURE
Mark Kortepeter
USUHS, Bethesda, MD, United States

3:10 p.m.
VINCENZO MARCOLONGO LECTURE: DENGUE: THE LATEST IN VACCINES AND OTHER PREVENTION TOOLS

Gabriela Paz-Bailey, MD, PhD, MSc, DTM&H
Chief of the Dengue Branch
Division of Vector-Borne Diseases
National Center for Emerging and Zoonotic Infectious Diseases (NCEZID)
Centers for Disease Control and Prevention
San Juan, Puerto Rico

Gabriela Paz-Bailey, MD, PhD, MSc, DTM&H is the Chief of the Dengue Branch (DB), Division of Vector-Borne Diseases (DVBD), National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) in San Juan, Puerto Rico. Dr. Paz-Bailey completed a degree in Medicine and Surgery at the University of San Carlos of Guatemala. She continued her graduate studies at the London School of Hygiene & Tropical Medicine in London, England, where she pursued a Master of Science in Tropical Medicine and International Health, and a PhD in Clinical Epidemiology. She joined the Centers for Disease Control and Prevention (CDC) in 2000 as an Epidemic Intelligence Service Officer.

Dr. Paz-Bailey has over two decades of experience in public health and epidemiology in the United States, Central America, Africa, and Asia. She has studied the natural history of several infectious diseases, focusing on their acquisition and response to therapies. These include tuberculosis, Chagas disease, HIV, hepatitis B and C viruses, herpes viruses, and arboviral diseases such as dengue and Zika. She has focused her efforts on strengthening surveillance systems and comprehensive treatment and prevention programs, and has authored over 190 publications. She now leads dengue research and program development for the CDC, including dengue transmission dynamics, evaluation of novel mosquito control interventions, and dengue vaccine policy and implementation. Dr. Paz-Bailey is passionate about working on disease control and prevention and the use of science-based tools to improve public health.

3:55 p.m.
ACCTMTH ANNUAL BUSINESS MEETING

4:25 p.m.
NETWORKING RECEPTION

Scientific Session 40

Viruses - Immunology

Regency Ballroom A - Ballroom Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Aravinda M. de Silva
University of North Carolina School of Medicine, Chapel Hill, NC, United States
Nell G. Bond
Tulane University SOM, New Orleans, LA, United States

3 p.m. **5709**

LONG TERM MUSCULOSKELETAL MANIFESTATIONS ARE ASSOCIATED WITH A DYSREGULATED IMMUNE RESPONSE IN POST-EBOLA SYNDROME (PES)

Nell G. Bond[1], Sarah T. Himmelfarb[1], Emily J. Engel[1], Foday Alhasan[2], Michael A. Gbakie[2], Lansana Kanneh[2], Mambu Momoh[2], Ibrahim M. Kanneh[2], John D. Sandi[2], Samuel C. Ficenec[1], James E. Robinson[1], Jeffery G. Shaffer[3], Robert F. Garry[1], Jalene Velasquez[4], Bronwyn M. Gunn[4], Robert Samuels[2], Donald S. Grant[2], John S. Schieffelin[1]
[1]Tulane University SOM, New Orleans, LA, United States, [2]Kenema Government Hospital, Kenema, Sierra Leone, [3]Tulane University School of Public Health, New Orleans, LA, United States, [4]Washington State University, Pullman, WA, United States

3:15 p.m. **5710**

EXPLORING BAT INNATE IMMUNE CELL RESPONSES TO FILOVIRUSES

Ivet A. Yordanova[1], Jonathan C. Guito[2], Markus Kainulainen[2], César Albariño[2], Jonathan S. Towner[2], Joseph B. Prescott[1]
[1]Center for Biological Threats and Special Pathogens, Robert Koch Institute, Berlin, Germany, [2]Viral Special Pathogens Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States

3:30 p.m. **5711**

COMPUTATIONAL DESIGN OF STABILIZED RBD ANTIGENS ENABLES POTENTLY NEUTRALIZING SARS-COV-2 VACCINES

Thayne Henderson Dickey[1], Rui Ma[1], Wai-Kwan Tang[1], Sachy Orr-Gonzalez[2], Tarik Ouahes[2], Palak Patel[1], Holly McAleese[2], Brandi L. Richardson[2], Elizabeth Eudy[3], Brett Eaton[3], Michael J. Murphy[3], Jennifer L. Kwan[4], Nichole D. Salinas[1], Michael R. Holbrook[3], Lynn E. Lambert[2], Niraj H. Tolia[1]
[1]Host-Pathogen Interactions and Structural Vaccinology Section, Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [2]Vaccine Development Unit, Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [3]Integrated Research Facility, Division of Clinical Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Frederick, MD, United States, [4]Epidemiology and Population Studies Unit, Laboratory of Clinical Immunology and Microbiology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

3:45 p.m. 5712

EPSTEIN BARR VIRUS SYNERGIZES WITH *PLASMODIUM FALCIPARUM* MALARIA TO INDUCE ABERRANT EXPRESSION OF ACTIVATION INDUCED CYTIDINE DEAMINASE

Bonface Ariera, Sidney Ogolla, Rosemary Rochorford
University of Colorado Anschutz medical campus, Aurora, CO, United States

4 p.m. 5713

ANTIBODY FC CORRELATES OF PROTECTION AGAINST SEVERE DENGUE DISEASE

Elias M. Duarte[1], Antonio G. Dias Jr[1], Jose Victor Zambrana[2], Sandra Bos[1], Vicky Roy[3], Rosie Aogo[4], Leah Katzelnick[4], Guillermina Kuan[5], Angel Balmaseda[6], Galit Alter[3], Eva Harris[1]
[1]Division of Infectious Disease and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, [3]Ragon Institute of MGH, MIT, and Harvard, Cambridge, MA, United States, [4]Viral Epidemiology and Immunity Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [5]Centro de Salud Sócrates Flores Vivas, Ministerio de Salud, Managua, Nicaragua, [6]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

4:15 p.m. 5714

ANTIBODY CORRELATES OF SEVERE DISEASE IN SECONDARY DENGUE VIRUS INFECTION AFTER A PRIMARY ZIKA VIRUS INFECTION: A POSSIBLE ROLE FOR IGA

Jaime A. Cardona-Ospina[1], Sandra Bos[1], Gregorio Dias Jr.[1], Jose Victor Zambrana[2], Vicky Roy[3], Elias Duarte[1], Guillermina Kuan[4], Angel Balmaseda[5], Galit Alter[3], Eva Harris[1]
[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, [3]Ragon Institute of MGH, MIT, and Harvard, Cambridge, MA, United States, [4]Centro de Salud Sócrates Flores Vivas, Ministerio de Salud, Managua, Nicaragua, [5]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

4:30 p.m. 5715

IN-DEPTH ANALYSIS OF THE IMMUNOGENICITY OF A SINGLE DOSE OF DENGVAXIA IN BASELINE DENGUE-NAIVE CHILDREN IN CEBU, PHILIPPINES

Laura J. White[1], Lindsay Dahora[1], Elizabeth Adams[1], Emily Freeman[1], Lucas Laszacs[1], Ruby Shah[1], Lakshmanane Premkumar[1], Odio Camila[2], Leah Katzelnick[2], Jedas Daag[3], Maria Vinna Crisostomo[3], Kristal-An Agrupis[3], Michelle Ylade[3], Jacqueline Deen[3], **Aravinda de Silva**[1]
[1]University of North Carolina, Chapel Hill, NC, United States, [2]National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [3]Institute of Child Health and Human Development, National Institutes of Health, University of the Philippines, Manila, Philippines

Symposium 41

Neglected Tropical Diseases at Home: Leishmania spp. in the United States

Regency Ballroom B - Ballroom Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Disease caused by infection with Leishmania spp. parasites is a prime example of a One Health concern as it affects both humans (leishmaniasis) and animals (leishmaniosis) and is spread by sandfly vectors with species-specific environmental requirements. In the United States, leishmaniasis is considered an exotic illness occurring among people who have traveled or lived abroad. However, movement of people and animals across borders and environmental changes could facilitate establishment of infection in new areas. Increasing numbers of autochthonous cases of cutaneous leishmaniasis caused by L. mexicana are reported and both vectors and animal reservoirs (primarily Neotoma spp.) have been documented in the southern U.S. Climate modeling studies have indicated that climate change will allow for northern expansion of sandfly vectors, which will likely increase the incidence of autochthonous cutaneous leishmaniasis in the U.S. Lack of awareness among U.S. physicians for endemic cutaneous leishmaniasis delays diagnosis and could result in inappropriate treatment of patients. Additionally, dogs are a major reservoir for zoonotic visceral leishmaniasis caused by Leishmania infantum, a potentially fatal disease affecting an estimated 90,000 people each year in over 80 endemic countries. The parasite has been expanding into non-endemic areas globally due to climate change and increasing world trade and international movement of dogs. Currently, few countries conduct surveillance for animal leishmaniosis or have control programs in place. In the U.S., hunting hounds have maintained infection through vertical transmission without apparent spread to sandflies, although one U.S. sandfly species (Lutzomyia shannoni) has demonstrated competence as a vector of L. infantum in South America. Importation of dogs from endemic areas brings concerns about the risk of zoonotic transmission to veterinary staff and dog owners, household transmission between pets, and establishment of an enzootic cycle in the U.S. if suitable vectors are present. Globally, both leishmaniasis and leishmaniosis are considered neglected tropical diseases. Likewise, there is a lack of knowledge and awareness of endemic leishmaniasis and leishmaniosis in the U.S. To address this knowledge gap, this symposium will present the full spectrum of leishmaniasis and leishmaniosis in the U.S. with an overview of autochthonous human and animal cases and domestic sandfly vector distribution and competence. Additionally, a new risk assessment tool for importation of dogs into the U.S. from endemic areas and the implications for human and animal health will be presented.

CHAIR
Anne Straily
US Centers for Disease Control and Prevention, Atlanta, GA, United States

3 p.m.
INTRODUCTION

3:05 p.m.
HUMAN AND VETERINARY LEISHMANIA SPP. AND RESULTANT CASES IN THE UNITED STATES
Christine Petersen
University of Iowa, Iowa City, IA, United States

3:25 p.m.
LEISHMANIASIS AS AN ENDEMIC HUMAN DISEASE IN THE UNITED STATES
Bridget McIlwee
Springfield Clinic, Springfield, IL, United States

3:45 p.m.
ECOLOGY, DISTRIBUTION, VECTOR COMPETENCE, AND CONTROL OF SAND FLIES IN THE U.S.
Scott Bernhardt
Utah State University, Logan, UT, United States

4:05 p.m.
ASSESSING THE RISKS OF L. INFANTUM ENTRY AND SPREAD IN THE U.S. FROM IMPORTED DOGS
David Marquez
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Symposium 42

Spatial Repellents to Prevent Mosquito-Borne Disease: Active Compound Discovery and Entomological Studies

Regency Ballroom C - Ballroom Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Long available for commercial use, spatial repellents are an underrecognized product class for malaria vector control currently under evaluation by the World Health Organization (WHO). These are products that can be hung up to diffuse active ingredients, commonly insecticides, to reduce contact between humans and mosquitoes. Evidence on safety, efficacy, and user acceptability continues to support the entry of spatial repellents into the malaria and dengue vector control arsenal in the near future, and it is time for this product class to enter the mainstream radar of important vector control tools that can offer protection from mosquito-borne disease. Here we cover the history of spatial repellent research and where we are today, focusing on the active ingredients available and those in the pipeline, as well as the evidence base from entomology semi-field and field studies. Our first speaker, Nicole Achee, will provide an overview of spatial repellent history, active ingredients in use today, and research priorities required to support their potential and continued widescale rollout. How has the evidence base been growing, where are we today? Which use case scenarios are under consideration and, looking ahead, what more do we need to know? Our second speaker, Johnson Kyeba Swai, will describe work conducted on evaluation of transfluthrin in semi-field, experimental huts and community studies. He will discuss which factors are most important to consider when designing these entomological studies to measure the protective efficacy of spatial repellents measured by reduction in landings as well as blood feeding inhibition and mortality. Our third speaker, Gissella Vasquez will provide an overview of field studies for spatial repellent devices giving an example of research conducted in the Peruvian Amazon. Dr Vasquez will emphasize challenges found in field research and share best practices for addressing those challenges. Our final speakers Dan Kline and Ingrid Chen will present a comprehensive assessment of the spatial repellent evidence base against the backdrop of entomological research, for which methods have evolved substantially over the past two decades. We present results from the meta-analysis 'Volatile pyrethroids against mosquitoes,' the first consolidation of research findings on the active ingredient class used in most spatial repellent products under development.

CHAIR
Ingrid Chen
University of California, San Francisco, San Francisco, CA, United States
Daniel L. Kline
USDA-ARS,CMAVE, Gainesville, FL, United States

3 p.m.
INTRODUCTION

3:10 p.m.
SPATIAL REPELLENT HISTORY, ACTIVE INGREDIENTS IN USE TODAY, AND RESEARCH PRIORITIES
Nicole L. Achee
University of Notre Dame, Notre Dame, IN, United States

3:30 p.m.
KEY FACTORS TO CONSIDER WHEN DESIGNING ENTOMOLOGICAL EVALUATIONS OF VOLATILE PYRETHROID-BASED SPATIAL REPELLENTS
Johnson Kyeba Swai
Ifakara Health Institute, Bagamoyo, United Republic of Tanzania

3:50 p.m.
FIELD EVALUATION OF SPATIAL REPELLENT DEVICES AGAINST MOSQUITOES IN THE PERUVIAN AMAZON: APPROACHES AND CHALLENGES
Gissella M. Vasquez
NAMRU-6, Callao 2, Peru

4:10 p.m.
META-ANALYSIS OF VOLATILE PYRETHROIDS AGAINST MOSQUITOES: A SYNTHESIS OF THE ENTOMOLOGICAL EVIDENCE BASE
Ingrid Chen
University of California, San Francisco, San Francisco, United States

Symposium 43

Targeting "Gaps in Protection" to Prevent Malaria in Hard to Reach Communities: A Staged Approach to Test New Vector - Control Tools, and Insights Toward Future Evaluation

Regency Ballroom D - Ballroom Level (West Tower)
Thursday, October 19, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

This symposium represents the collective works of Project BITE (Bite Interruption Toward Elimination) and serves as a template for addressing gaps in vector control tool protection, which can be applied more broadly. In the current global scenario of climate change, urbanization, and the alarming expansion of hard-to-reach, mobile, and displaced populations, more effective and appropriate tools are urgently needed. Malaria elimination requires aggressive and creative application of effective vector control tools, especially in populations that are most difficult to reach. The WHO Global Vector Control Response calls for "programs to optimize the delivery of interventions tailored to the local context". Project BITE used a staged approach to evaluate several novel tools, including Volatile Pyrethroid Spatial Repellents, etofenprox-treated clothing, and topical repellent. This staged approach consisted of a series of experiments including semi-field studies, entomological field studies and human behavioral research, in order to understand

the entomological effectiveness as well as the acceptability and suitability of the tools for the target populations. Finally, these tools were combined into a Forest Pack, designed and delivered to the most at-risk populations in Cambodia as they target malaria elimination by 2025. At each stage, modelling was utilized to predict the potential impact on the malaria burden, with the new data further informing the models. Semi-field and field experiments found that all tools were effective at reducing mosquito landing – and even more so when used in combination – offering personal protection for the intervention user. Each tool also had impacts on "secondary" endpoints such as mortality, prolonged blood-feeding inhibition and egg-laying, which indicates the tools may also offer community protection. Implementation research revealed that while the majority of people were satisfied with the tools, the distribution, delivery, and proper usage of them – especially the treated clothing – presents an obstacle to be overcome. Project BITE is a demonstration of how a staged approach to evaluation can be used to generate important data on effectiveness and acceptability of new tools, or combinations of tools, aimed at protecting the most vulnerable populations from disease. When traditional epidemiological data, via a randomized controlled trial or other form of study, is not practical, we must consider what other options are available to produce relevant, complementary evidence. There is an urgent need for new tools to prevent mosquito borne disease in targeted, context-appropriate ways. A shift in the paradigm of evaluating and approving new tools is needed.

CHAIR

David J. McIver
Malaria Elimination Initiative, Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States

Allison Tatarsky
Malaria Elimination Initiative, Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
EVALUATION OF NOVEL VECTOR CONTROL TOOLS IN A SEMI-FIELD SETTING, USING MULTIPLE DIVERSE ENDPOINTS
Alongkot Ponlawat
Armed Forces Medical Research Institute of Medical Sciences, Bangkok, Thailand

3:30 p.m.
PROGRESSING TO FIELD BASED ENTOMOLOGICAL EVALUATION OF NOVEL VECTOR CONTROL TOOLS, INCLUDING COMBINED INTERVENTIONS
Dyna Doum
Health Forefront Organization, Phnom Penh, Cambodia

3:50 p.m.
INTEGRATION OF HUMAN BEHAVIOR DATA WITH ENTOMOLOGICAL DATA TO IDENTIFY GAPS IN PROTECTION AND GUIDE INTERVENTION SELECTION, TARGETING, AND TAILORING
Elodie Vajda
Malaria Elimination Initiative, Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States

4:10 p.m.
A MODELLING FRAMEWORK TO EVALUATE THE POTENTIAL IMPACT OF NOVEL VECTOR CONTROL TOOLS BASED ON SEMI-FIELD AND FIELD DATA
Emma Fairbanks
Swiss Tropical and Public Health Institute, Allschwil, Switzerland

4:30 p.m.
WHERE DO WE GO FROM HERE? HOW DO WE SHIFT THE EVALUATION PARADIGM TOWARD BUILDING COMPLEMENTARY EVIDENCE WHEN TRADITIONAL EPIDEMIOLOGICAL DATA COLLECTION IS NOT FEASIBLE
Allison Tatarsky
Malaria Elimination Initiative, Institute for Global Health Sciences, University of California, San Francisco, San Francisco, CA, United States

Richard Hunt Sculpture Tour

Meet in Hotel Lobby at Wacker Drive Entrance
Thursday, October 19, 3:30 p.m. – 5 p.m.

Please join us along with the Green Task Force for a Chicago Art Walk featuring the work of Chicago's own famous sculptor, Richard Hunt. According to Kinshasha Holman Conwill, Director of the Studio Museum in Harlem, "Hunt has been a major figure in American Art for forty years. His sculpture and public commissions have earned a singular place in the cultural landscape and public imagination." Jesus Lopes, a staff artist in Richard Hunt's Studio, will lead the tours. The tours will be held on Thursday, October 19 at 3:30 pm - 5 pm and Friday, October 20 at 3:30 pm - 5 pm. Meet in the lobby of the Hyatt Regency Chicago at the Wacker Drive entrance.

Poster Session A Dismantle

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Thursday, October 19, 4 p.m. - 5:15 p.m.

Break

Thursday, October 19, 4:45 p.m. - 5:15 p.m.

Scientific Session 44

Global Health: Global Health Security and Emerging Infectious Diseases

Grand Ballroom A - Ballroom Level (East Tower)

Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR

Clive Brown
Centers for Disease Control and Prevention, Atlanta, GA, United States

Stephen K. Balinandi
Uganda Virus Research Institute, Entebbe Wakiso District, Uganda

5:15 p.m. 5716

ACUTE PUBLIC HEALTH THREATS GLOBALLY: A 10-YEAR WORLD HEALTH ORGANIZATION ANALYSIS

Neil J. Saad[1], Blanche Greene-Cramer[1], Adedoyin Awofisayo-Okuyelu[1], Dubravka Selenic Minet[1], Maria Almiron[2], Krista Swanson[2], Masaya Kato[3], Tshewang Dorji[3], Tamano Matsui[4], Manilay Phenxay[4], Aura Corpuz[5], Jeremias Naiene[5], Jukka Pukkila[6], Silviu Ciobanu[6], Etien Koua[7], George Sie Williams[7], Oliver Morgan[8], Ibrahima Socé Fall[1], Abdi Rahman Mahamud[1], **Esther L. Hamblion**[1], on behalf of the World Health Organization Public Health Intelligence Teams[9]

[1]World Health Organization, Geneva, Switzerland, [2]World Health Organization Regional Office for the Americas, Washington DC, WA, United States, [3]World Health Organization Regional Office for South-East Asia, New Dehli, India, [4]World Health Organization Regional Office for the Western Pacific, Manila, Philippines, [5]World Health Organization Regional Office for the Eastern Mediterranean, Cairo, Egypt, [6]World Health Organization Regional Office for Europe, Copenhagen, Denmark, [7]World Health Organization Regional Office for Africa, Brazzaville, Republic of the Congo, [8]World Health Organization, Berlin, Germany, [9]Opeayo Ogundiran,Jean-Pierre Kimenyi,Enrique Perez,Mahmoud Hassan,Ka Yeung Cheng, Lauren MacDonald,Amarnath Babu,Tika Sedai,Viema Biakula,Ariuntuya Ochirpurev,Alessandro Miglietta,Anastasia Smirnova,Etsub Tahelew,Harsh Lata,Kaja Kaasik, Lidia Ezerska,Tatiana Metcalf,Felix Moek, Switzerland

5:30 p.m. 5717

DETECTION OF HUMAN CASES OF CRIMEAN-CONGO HEMORRHAGIC FEVER DURING AN ONGOING MULTIDISTRICT OUTBREAK OF EBOLA VIRUS DISEASE IN UGANDA, 2022-23

Stephen K. Balinandi[1], Shannon Whitmer[2], Sophia Mulei[1], Luke Nyakarahuka[1], Caitlin Cossaboom[2], Alex Tumusiime[1], Jackson Kyondo[1], Jimmy Baluku[1], David Muwanguzi[3], Daniel Kadobera[4], Julie R. Harris[4], Alex R. Ario[4], Henry B. Kyobe[3], Pontiano Kaleebu[1], Julius J. Lutwama[1], Joel Montgomery[2], John D. Klena[2], Trevor R. Shoemaker[2]

[1]Uganda Virus Research Institute, Entebbe, Uganda, [2]Viral Special Pathogens Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Ministry of Health, Kampala, Uganda, [4]Uganda Public Health Fellowship Program, Kampala, Uganda

5:45 p.m. 5718

A COMPREHENSIVE REVIEW OF CLINICAL PRESENTATIONS OF NIPAH VIRUS INFECTION: EVIDENCE GENERATED FROM NIPAH VIRUS OUTBREAKS OF 2023, BANGLADESH

Syed M. Satter[1], Wasik R. Aquib[1], Arifa Nazneen[1], Dewan I. Rahman[1], Fateha A. Ema[1], Ahmed N. Alam[2], Mahbubur Rahman[2], Mohammad M. Rahman[2], Md O. Qayum[2], Mohammad R. Hassan[2], Ariful Islam[3], Sushmita Dutta[2], Nabila N. Chowdhury[2], Md Z. I. Noman[2], Abir S. Mahmood[2], Md S. B. Alam[2], Md M. Hassan[2], Immamul Muntasir[2], Sabrina J. Mily[2], Sakia Haque[2], Shownam Barua[2], Ahmad R. Sharif[2], Sharmin Sultana[2], John D. Klena[4], Mohammed Z. Rahman[1], Sayera Banu[1], Joel M. Montgomery[4], Tahmina Shirin[2]

[1]icddr,b, Dhaka, Bangladesh, [2]Institute of Epidemiology, Diseases Control and Research (IEDCR), Dhaka, Bangladesh, [3]EcoHealth Alliance, Atlanta, GA, United States, [4]Viral Special Pathogens Branch, Division of High Consequence Pathogens and Pathology, Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States

6 p.m. 5719

ENVIRONMENTAL SURVEILLANCE TO DETERMINE COVID-19 PREVALENCE IN DISTRICTS IN NORTHERN GHANA WITH NO REPORTED COVID 19 CASES: EVIDENCE TO INFORM PUBLIC HEALTH INTERVENTIONS

Habib Yakubu[1], Christine Moe[1], Stephen Hilton[1], Liu Pengbo[1], Sarah Durry[1], Marlene Wolfe[1], Yuke Wang[1], Mike Osei-Atwenebaona[2], Patrick Kuma Aboagye[3], Dennis Laryea[3], Hannah Ampadu[3], Franklin Asiedu Bekoe[3], Ebenezer Ato Kwamena Senaya[4], Benedict Tuffuor[4], Samuel Armoo[2], Lady Asantewa Adomako[2], Nana Aso Amonoo[2], Mark Akrong[2]

[1]Centre for Global Safe Water, Sanitation and Hygiene, Hubert Department of Public Health, Rollins School of Public Health at Emory University, Atlanta, GA, United States, [2]Council for Scientific and Industrial Research-Water Research Institute, Accra, Ghana, [3]Ghana Health Service, Accra, Ghana, [4]Training, Research and Networking for Development, Accra, Ghana

6:15 p.m. 5720

MEASLES ANTIBODY RESPONSE AND DURATION IN INFANTS WITH HIGH EARLY-LIFE MALARIA EXPOSURE COMPARED WITH LOW MALARIA EXPOSURE

Samantha E. Tulenko[1], Catherine S. Forconi[2], Sylvia Becker-Dreps[1], Jessie K. Edwards[1], John Michael Ong'echa[3], Juliana A. Otieno[4], Hellen Barsosio[3], Peyton Thompson[1], Emily W. Gower[1], Ann M. Moormann[2]

[1]University of North Carolina, Chapel Hill, NC, United States, [2]University of Massachusetts Chan Medical School, Worcester, MA, United States, [3]Kenya Medical Research Institute, Kisumu, Kenya, [4]Jaramogi Oginga Odinga Teaching and Referral Hospital, Kisumu, Kenya

6:30 p.m. 5721

MACROLIDE RESISTANCE 36 MONTHS AFTER MASS AZITHROMYCIN ADMINISTRATION IN A CLUSTER-RANDOMIZED TRIAL IN NIGER

Ashley Hazel[1], Ahmed M. Arzika[2], Amza Abdou[3], Ramatou Maliki[2], Seth Blumberg[1], Elodie Lebas[1], Travis C. Porco[1], Thomas M. Lietman[1], Jeremy D. Keenan[1]

[1]University of California, San Francisco, San Francisco, CA, United States, [2]The Carter Center, Niger, Niamey, Niger, [3]Programme Nationale de Santé Oculaire, Niamey, Niger

6:45 p.m. 5722

RISK FACTORS FOR COLONIZATION WITH EXTENDED-SPECTRUM CEPHALOSPORIN RESISTANT AND CARBAPENEM RESISTANT ENTEROBACTERALES AMONG HOSPITALIZED PATIENTS IN BANGLADESH: ANTIBIOTIC RESISTANCE IN COMMUNITIES AND HOSPITALS -ARCH- STUDY

Syeda Mah-E-Muneer[1], Fahmida Chowdhury[1], Kamal Hossain[1], Rachel M. Smith[2], Ashley R. Styczynski[2]

[1]icddr,b, Dhaka, Bangladesh, [2]CDC, Atlanta, GA, United States

Symposium 45

Diversity and Importance of Nonhuman Primate Malaria Parasites: Tenth Anniversary Symposium in Honor of Dr. William E. Collins

Grand Ballroom B - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

Dr. William "Bill" E. Collins, Ph.D., passed away on September 28, 2013. Bill was a legendary malariologist. He was an ASTMH member (1961-2013) and worked in the U.S. Public Health Service for over fifty years, including CDC (1973-2013). His work involved seminal contributions to malaria biology, entomology, vaccine development, therapeutic studies, and drug trials using nonhuman primate models. He co-authored the book The Primate Malarias (Coatney GR, Collins WE, Warren M, Contacos PG originally published 1971) that summarized the knowledge on different species of *Plasmodium* in primates, including humans. Throughout his research, he developed and preserved unique biological materials of different human and nonhuman malaria parasites and generously shared them with anyone who needed them for their research. His efforts were invaluable for many subsequent discoveries, including genome sequencing, fundamental research on parasite biology, and the development of new tools for malaria diagnosis that are much needed in control and elimination. The scientific community honored Bill by naming a subspecies, *Plasmodium vivax* collinsi, and a great ape malaria parasite, Plasmodium billcollinsi, after him. What can we learn from studying nonhuman primates' malaria parasites? The species causing malaria in humans originated independently, involving different lineages or clades that share recent common ancestors with other species in nonhuman primates. As a result, the parasites that primarily cause malaria in humans show remarkable biological differences. The *Plasmodium* species found in nonhuman primates provide critical information to understand the molecular basis of phenotypic differences among the human malaria parasites, such as their mechanisms of invasion of the red blood cell, pathogenesis, treatment, and transmission biology. In addition, some nonhuman primate malaria parasites are of public health importance as they are part of zoonotic infections. The most notorious is *Plasmodium knowlesi* in Southeast Asia, but other species in the region, such as *Plasmodium* cynomolgi and *Plasmodium* inui, may also infect humans. There are also anthropozoonotic infections in South America. In particular, *Plasmodium* brasilianum (known as *Plasmodium* malariae in humans) and *Plasmodium* simium, which originated from *Plasmodium vivax.* Bill Collins summarized all these complexities by saying, "We learn from all the parasites." Thus, this symposium honors him by revising our knowledge of nonhuman malaria parasites.

CHAIR

Ananias A. Escalante
Temple University, Philadelphia, PA, United States

Venkatachalam Udhayakumar
Independent Consultant, Decatur, GA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
INTRODUCTION: BILL COLLINS LEGACY IN THE STUDY OF NONHUMAN PRIMATE MALARIA PARASITES
Venkatachalam Udhayakumar
Independent Consultant, Decatur, GA, United States

5:35 p.m.
MALARIA, MAN AND MONKEYS: PAST, PRESENT, AND FUTURE
Balbir Singh
Malaria Research Centre, Universiti Malaysia, Sarawak, Malaysia

5:55 p.m.
***PLASMODIUM* PITHECI MALARIA IN BORNEAN ORANG-UTANS**
Karmele Llano Sánchez
IAR Indonesia Foundation – Yayasan Inisiasi Alam Rehabilitasi Indonesia (YIARI), Ketapang, West Kalimantan, Indonesia

6:15 p.m.
THE IMPORTANCE OF NONHUMAN PRIMATE MALARIA PARASITE GENOMICS FOR THE STUDY OF HUMAN MALARIA
Jane Carlton
New York University, New York, NY, United States

6:35 p.m.
DIVERSITY AND ORIGIN OF PRIMATE MALARIA PARASITES
Ananias A. Escalante
Temple University/Institute for Genomics and Evolutionary Medicine, Philadelphia, PA, United States

Symposium 46

Innovations in Modelling and Analytics to Accelerate Development of a New Generation of Malaria Interventions

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

New tools are needed to address the persistent threat of malaria, particularly as resistance to our current toolbox of interventions and treatments becomes more prevalent. Malaria modelling and analytics has emerged as a critical component for accelerating the development of new tools, identifying ideal product properties, supporting improved monitoring and surveillance, and facilitating conversations and collaboration between academia, industry, global regulators, and funding bodies. This symposium brings together experts in the field to discuss the latest developments and innovations in malaria modelling and analytics, and their applications in shaping a next generation of malaria interventions and product strategies. Presenters will speak to how innovations in modelling and analytics are accelerating decisions on discovery, selection, testing, and clinical trials for novel malaria tools: next-generation medical products, next-generation vector control tools, gene-drive modified mosquitoes, and genomic tools. Experts will also address how advances in computation and machine learning are being deployed for malaria intervention development, as well as the intelligent use of cutting-edge genomics tools and surveillance technologies for decision-making support. Through

these conversations, this symposium will provide a platform for the exchange of ideas on malaria modelling and analytics as a development accelerator.

CHAIR
Melissa A. Penny
Swiss Tropical and Public Health Institute, Basel, Switzerland
John Marshall
University of California, Berkeley, Berkeley, CA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
MODELLING FOR DEFINING TARGET PRODUCT PROFILE CRITERIA AND CLINICAL TRIAL PROPERTIES FOR NEXT-GEN MALARIA VACCINES
Josephine Malinga
Swiss Tropical and Public Health Institute, Allschwil, Switzerland

5:45 p.m.
MODELING AND ANALYTICS TO SUPPORT THE TRANSITION OF GENE DRIVE MOSQUITO PROJECTS FROM LAB TO FIELD
John Marshall
University of California, Berkeley, Berkeley, CA, United States

6:05 p.m.
KEY CONSIDERATIONS FOR USING AI AND INFRARED SPECTROSCOPY FOR MALARIA SURVEILLANCE
Issa Mshani
Ifakara Health Institute, Morogoro, United Republic of Tanzania

6:25 p.m.
MACHINE LEARNING APPLICATIONS FOR TRACKING KEY BIOLOGICAL THREATS TO MALARIA CONTROL
Sophia Mwinyi
Ifakara Health Institute, Morogoro, United Republic of Tanzania

6:45 p.m.
INVESTIGATING THE IMPACT OF *PLASMODIUM FALCIPARUM* CS DIVERSITY ON MALARIA IMMUNITY AND VACCINE/MAB PROTECTIVE EFFICACY
Daniel Neafsey
Harvard TH Chan School of Public Health, Boston, MA, United States

Symposium 47

LIVE STREAMING

Enhancing Development and Evaluation of New Vector Control Technologies Through Social and Behavioral Research: Insights from Spatial Repellent, Endectocide, and New Net Trials

Grand Ballroom CDEF - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

In recent years progress has stalled in the fight against malaria. New tools will be critical to sustaining gains and several promising technologies are on the immediate horizon. However, to be effective these interventions need to be feasible to implement within the context of resource limited health systems and flexible enough to be delivered through a variety of mechanisms that are acceptable to communities across a range of different social, economic and cultural contexts. In recent years, there has been a positive trend toward funding significant social and behavioral research components alongside rigorous epidemiological and entomological evaluations of new malaria vector control interventions. This symposium will showcase the social science components of three Unitaid - funded projects: Advancing Evidence for Global Implementation of Spatial Repellents (AEGIS), Broad One Health Endectocide-based Malaria Intervention in Africa (BOHEMIA), and the New Nets Project. These multi-country projects are designed to generate the evidence needed for a World Health Organization recommendation for first-in-class products in promising new intervention classes. Researchers across projects will present different methodological approaches, results to date, and how findings might be used to enhance future research and implementation. The symposium will also include a brief presentation on why Unitaid invests in social science research to inform product development and introduction and to foster inclusive and demand-driven partnerships for innovation. Maximizing alignment with the priorities of affected countries, communities, and civil society groups is central to Unitaid's 2023-2027 Strategy and critical to informing its investments. Finally, a short panel discussion will be included touching on key lessons learned across projects, limitations of social science research in the context of epidemiological trials, and how the global malaria community can continue to move towards rethinking malaria, engaging with both endemic country health systems and the most vulnerable and working together to co-produce locally appropriate malaria prevention strategies.

CHAIR
April Monroe
Johns Hopkins Center for Communication Programs, Baltimore, MD, United States

5:15 p.m.
INTRODUCTION

5:20 p.m.
AEGIS KENYA SOCIAL SCIENCE: RATIONALE, METHODS, INTERIM RESULTS AND IMPLICATIONS
Prisca Oria
Kenya Medical Research Institute, Kisumu, Kenya

5:30 p.m.
SOCIAL SCIENCE INSIGHTS FROM THE BROAD ONE HEALTH ENDECTOCIDE-BASED MALARIA INTERVENTION IN AFRICA PROJECT
Caroline Jones
Kemri-Wellcome Trust Research Programme, Kilifi, Kenya

5:40 p.m.
AT THE INTERSECTION OF HUMAN AND MOSQUITO BEHAVIORS: A RAPID REVIEW OF THE SOCIAL SCIENCE RESEARCH COMPONENTS OF THE NEW NETS PROJECT
Joseph Wagman
PATH, Washington, DC, United States

5:50 p.m.

INVESTING IN SOCIAL SCIENCE RESEARCH TO INFORM PRODUCT DEVELOPMENT AND INTRODUCTION AND FOSTER INCLUSIVE AND DEMAND-DRIVEN PARTNERSHIPS FOR INNOVATION

Kelsey Barrett
Unitaid, Geneva, Switzerland

Scientific Session 48

Kinetoplastida and Other Protozoa: Epidemiology

Grand Hall K - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR
Natalie Bowman
University of North Carolina, Chapel Hill, NC, United States

Diogo Valadares
IMT - UFRN, Natal, Brazil

5:15 p.m. 5723

MOLECULAR EPIDEMIOLOGY OF ASYMPTOMATIC CRYPTOSPORIDIUM, GIARDIA AND ENTAMOEBA INFECTIONS: THREATS TO THE HEALTH OF NIGERIAN CHILDREN?

Oluwaremilekun Grace Ajakaye[1], Egie Enabulele[2], Amana Onekutu[3], Ehizogie Adeyemi[4], Emmanuel Effanga[5], Joshua Balogun[6], Muhammad Ali[7], Samuel Dahal[8], Timothy Auta[9], Umoru Askira[10], Victor Njom[11], Michael Grigg[12]
[1]Adekunle Ajasin University, Akungba Akoko, Nigeria, [2]Texas Biomedical Research Institute, San Antonio, TX, United States, [3]Federal University of Agriculture, Makurdi, Nigeria, [4]University of Benin Teaching Hospital, Benin, Nigeria, [5]University of Calabar, Calabar, Nigeria, [6]Federal University Dutse, Dutse, Nigeria, [7]Kano state Polytechnic, Kano, Nigeria, [8]Jos University Teaching Hospital, Jos, Nigeria, [9]Federal University Dutsin-Ma, Dutsin-Ma, Nigeria, [10]University of Maiduguri Teaching Hospital, Maiduguri, Nigeria, [11]Enugu State University of Science and Technology, Enugu, Nigeria, [12]National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, United States

5:30 p.m. 5724

A CONTINENTAL PICTURE OF SLEEPING SICKNESS: USING MODELS FROM THE DRC TO ESTIMATE GLOBAL GAMBIENSE HUMAN AFRICAN TRYPANOSOMIASIS BURDEN AND PROJECTED RESOURCE USE AND COST UNDER VARIOUS CONTROL STRATEGIES

Samuel A. Sutherland[1], Ronald E. Crump[1], Christopher N. Davis[1], Ching-I Huang[1], Marina Antillon[2], Simon E.F. Spencer[3], Paul E. Brown[1], Emily H. Crowley[1], Erick Mwamba Miaka[4], Kat S. Rock[1]
[1]SBIDER, University of Warwick, Coventry, United Kingdom, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland, [3]Department of Statistics, University of Warwick, Coventry, United Kingdom, [4]Programme National de Lutte contre la Trypanosomiase Humaine Africaine (PNLTHA), Kinshasa, Democratic Republic of the Congo

5:45 p.m. 5725

CHAGATYPER: DEVELOPMENT OF A RAPID RESPONSE, SEMI-AUTOMATED, HIGH-RESOLUTION GENOTYPING PLATFORM FOR CHAGAS DISEASE

Natalie Elkheir[1], Clara Gyhrs[2], Debbie Nolder[1], Peter L. Chiodini[1], David AJ Moore[1], Martin Llewellyn[2]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University of Glasgow, Glasgow, United Kingdom

6 p.m. 5726

MOLECULAR-BASED EVIDENCE OF TRANSMISSION OF ATYPICAL TRYPANOSOMIASIS (A-HAT) IN HUMANS IN SELECTED COMMUNITIES IN THE SUHUM MUNICIPALITY OF GHANA

Kofi Agyapong Addo
Akenten Appiah-Menka University of Skills Training and Entrepreneurial Development, Kumasi, Ghana

6:15 p.m. 5727

LEISHMANIA INFANTUM VERTICAL TRANSMISSION IN NATURALLY INFECTED DOGS FROM AN ENDEMIC REGION OF BRAZIL

Diogo Valadares[1], Flavio Coutinho[1], Maria S.M. Amarante[1], Ana Maria R. Oliveira[1], Damila K. Melo[1], Romeika K.R Lima[2], Marcela Vidal[2], Grant D. Brown[3], Jacob J. Oleson[3], Mary E. Wilson[3], Christine A. Petersen[3], Selma MB Jeronimo[1]
[1]IMT - UFRN, Natal, Brazil, [2]Canis&Catus, Natal, Brazil, [3]University of Iowa, Iowa City, IA, United States

6:30 p.m. 5728

CLINICAL AND METAGENOMIC CHARACTERIZATION OF CEREBRAL TOXOPLASMOSIS IN THE PERUVIAN AMAZON.

Hannah E. Steinberg[1], Prashanth S. Ramachandran[2], Andrea Diestra[3], Lynn Pinchi[4], Cusi Ferradas[5], Daniela E. Kirwan[6], Monica M. Diaz[7], Micheal Sciaudone[8], Annie Wapniarski[2], Kelsey C. Zorn[2], Maritza Calderón[3], Lilia Cabrera[4], Viviana Pinedo Cancino[9], Micheal Wilson[2], Cesar Ramal[10], Robert H. Gilman[11], Natalie M. Bowman[7]
[1]University of Illinois, Chicago, Chicago, IL, United States, [2]UCSF, San Francisco, CA, United States, [3]Universidad Peruana Cayetano Heredia, Lima, Peru, [4]AB Prisma, Lima, Peru, [5]University of California Davis, Davis, CA, United States, [6]St George's, University of London, London, United Kingdom, [7]University of North Carolina, Chapel Hill, NC, United States, [8]Tulane University, New Orleans, LA, United States, [9]Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, [10]Hospital Regional de Loreto, Iquitos, Peru, [11]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

6:45 p.m. 5729

RISK FACTORS FOR MOTHER-TO-CHILD TRANSMISSION OF TRYPANOSOMA CRUZI AND HEPATITIS B IN THE CROSS-BORDER AREA OF ARGENTINA AND PARAGUAY

Yoshiko Takahashi[1], Susana Avila[2], Silvia Correa[3], Karina Cardone[2], Mariana Fernández[2], Favio Crudo[2], Miho Sato[1], Hirotsugu Aiga[1], Kenji Hirayama[1], Maria V. Periago[4]
[1]School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan, [2]Fundación Mundo Sano, Buenos Aires, Argentina, [3]Universidad Nacional de Salta, Salta, Argentina, [4]CONICET/Fundación Mundo Sano, Buenos Aires, Argentina

Symposium 49

The Path to Evidence-Based Action to Reach Those Left Behind by Mass Drug Administration and Vaccination Programs

Grand Hall L - Ballroom Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

The 2030 Agenda for Sustainable Development includes a target of 'achieving universal health coverage with access to quality services and medicines for all'. Large public health programs to eliminate neglected tropical diseases and expand routine immunization are, by most other metrics, global health success stories. However, some individuals remain left behind and are not covered through mass drug or vaccine distribution campaigns.

For example, in 2020, globally an estimated 12.5 million children were never vaccinated - called 'zero-dose children'. Within national lymphatic filariasis programs, data shows up to 45% of people in some sites reported that they were 'never treated' during any round of mass drug administration. These public health programs may use different terminology and have different target populations, yet many of the unreached groups overlap. These individuals face similar barriers accessing mass campaigns, as well as expressing decreased demand due to rumors or misunderstanding of risk. Not only does the exclusion of these groups contribute to ongoing disease transmission and inability to meet disease control or elimination goals, but it also impedes progress towards the Sustainable Development Goals. The session will begin by presenting current efforts underway to identify and reach those left behind. It will then showcase country examples of efforts to collect data and respond to never treatment / zero-dose, as well as highlight recent programmatic data analysis on the links between never treatment in LF programs and infection status. The session will demonstrate the pathway of evidence to action in order to identify and reach the never treated/zero-dose individuals.

CHAIR

Alison Krentel
School of Epidemiology and Public Health, University of Ottawa, Ottawa, ON, Canada

Dziedzom K. De Souza
Noguchi Memorial Institute for Medical Research, Accra, Ghana

5:15 p.m.
INTRODUCTION

5:25 p.m.
REACHING THOSE WHO ARE LEFT BEHIND IN MASS PUBLIC HEALTH CAMPAIGNS: USING EVIDENCE TO GENERATE ACTION

Alison Krentel
University of Ottawa, Ottawa, ON, Canada

5:35 p.m.
RESULTS FROM THE GAVI ZERO-DOSE LEARNING AGENDA: BANGLADESH AND MALI EXPERIENCES

Heidi W. Reynolds
Gavi, the Vaccine Alliance, Geneva, Switzerland

5:50 p.m.
WHAT CAN PROGRAMMATIC DATA TELL US ABOUT LINKS BETWEEN NEVER TREATMENT AND INFECTION?

Molly Brady
RTI International, Washington, DC, United States

6:05 p.m.
THE CASE OF CROSS-BORDER NEVER TREATMENT AMONG COUNTRIES IN THE SOUTH-EAST ASIA REGION

Aya Yajima
World Health Organization South-East Asia Regional Office (SEARO), New Delhi, India

6:20 p.m.
ASSESSING THE NEVER-TREATED IN GHANA AND THE POTENTIAL IMPACTS ON THE LYMPHATIC FILARIASIS ELIMINATION EFFORTS

Dziedzom K. De Souza
Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana

Scientific Session 50

Bacteriology: Systemic Infections/Infection-Malnutrition Interplay

Plaza Ballroom - Lobby Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR

Muntasir Alam
icddr,b, Dhaka, Bangladesh

Stephanie Brennhofer
University of Virginia, Charlottesville, VA, United States

5:15 p.m. 5730

ETIOLOGY, GAPS, AND CHALLENGES IN THE DIAGNOSIS AND MANAGEMENT OF SEPSIS AMONG UNDER-FIVES ENROLLED IN THE KENYA CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE NETWORK (CHAMPS) PROGRAM

Harun Odhiambo Owuor[1], Dickens Onyango[2], Richard Omore[1], Beth Tippet Barr[3], Victor Akelo[4]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Kisumu County Department of Health, Kisumu, Kenya, [3]Nyanja Health Research Institute, Malawi, Malawi, [4]Center for Disease Control, Atlanta, GA, United States

5:30 p.m. 5731

GENOMIC CHARACTERIZATION OF EXTRAINTESTINAL PATHOGENIC ESCHERICHIA COLI ISOLATED FROM STILLBIRTHS AND EARLY NEONATAL DEATHS: AN OBSERVATION FROM CHAMPS BANGLADESH

Muntasir Alam[1], Md. Fakhruddin[1], Md Saiful Islam[1], Afruna Rahman[1], Arpita Shyama Deb[1], Nairita Ahsan Faruqui[1], Mohammad Zahid Hossain[1], Shams El Arifeen[1], Emily S. Gurley[2], Mustafizur Rahman[1]
[1]icddr,b, Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

5:45 p.m. 5732

URECA-LAMP: RAPID, CHEAP AND EFFECTIVE POINT-OF-CARE SCREENING OF CEPHALOSPORIN AND CARBAPENEM RESISTANCE FOR LOW MIDDLE-INCOME COUNTRIES

Ricardo Castellanos, Hitendra Kumar, Ryan Chaffee, Yoonjung Lee, Gisele Peirano, Johann Pitout, Keekyoung Kim, Dylan R. Pillai
University of Calgary, Calgary, AB, Canada

6 p.m. 5733

DEVELOPMENT OF A KLEBSIELLA PNEUMONIAE NEONATAL SEPSIS MOUSE MODEL TO EVALUATE VACCINES

Jernelle C. Miller, Scott C. Baliban, Alan S. Cross, Sharon M. Tennant
Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, Baltimore, MD, United States

6:15 p.m. 5734

FIRST REPORT OF OXA-181-PRODUCING ENTEROBACTERALES IN LATIN AMERICA

Diego Cuicapuza[1], Guillermo Salvatierra[1], Alejandra Dávila-Barclay[1], Luis Alvarado[2], Norah Tocasca[3], Daniel Aguilar[3], Juan Carlos Gómez-de-la-Torre[2], Andres G. Lescano[4], Pablo Tsukayama[1], Jesús Tamariz[5]
[1]*Laboratorio de Genómica Microbiana, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru,* [2]*Laboratorio Clínico Roe, Lima, Peru,* [3]*Instituto Nacional de Enfermedades Neoplásicas, Lima, Peru,* [4]*Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru,* [5]*Laboratorio de Resistencia Antibiótica e Inmunopatología, Universidad Peruana Cayetano Heredia, Lima, Peru*

6:30 p.m. 5735

THE RELATIONSHIP BETWEEN CO-MORBID MALNUTRITION AND DIARRHEAL ILLNESS AMONG HOSPITALIZED TANZANIAN CHILDREN UNDER FIVE YEARS OF AGE

Stephanie A. Brennhofer[1], Sifaeli Katengu[2], Godfrey Guga[2], Yotham Z. Michaeli[2], Miriam Temu[2], Frederick Habiye[2], James A. Platts-Mills[1], Estomih R. Mduma[2], Elizabeth T. Rogawski McQuade[3]
[1]*University of Virginia, Charlottesville, VA, United States,* [2]*Haydom Lutheran Hospital, Haydom, United Republic of Tanzania,* [3]*Emory University, Atlanta, GA, United States*

6:45 p.m. 5736

ETIOPATHOLOGY OF STUNTING: INFANT GUT CHARACTERIZATION AND MICROBIAL INFLUX ROUTES IN A MOTHER-INFANT COHORT IN CENTRAL-AFRICA

Violeta Moya-Alvarez[1], Amine Ghozlane[2], Pascale Vonaesch[3], Daniel Mad-Bondo[4], Bertrand Kongoma[4], Serge Djorie[5], Philippe Sansonetti[2]
[1]*Institut de Recherche pour le Développement, Paris, France,* [2]*Institut Pasteur, Paris, France,* [3]*Université de Lausanne, Lausanne, Switzerland,* [4]*Maternité Henri Izamo, Bangui, Central African Republic,* [5]*Institut Pasteur de Bangui, Bangui, Central African Republic*

Symposium 51

Clinical Development of Monoclonal Antibodies that Target Malaria Sporozoites

Crystal Ballroom A - Lobby Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

Building on the recent success of the anti-malaria sporozoite monoclonal antibody (mAb) CIS43LS in malaria naïve and malaria exposed populations and early progress seen with the next generation antibody L9LS, the reality of a prophylactic mAb for malaria is within reach. The aim of this symposium is to bring together leaders in the field to present results from pivotal phase 2 trials of CIS43LS and L9LS in Mali and Kenya, and to review progress in the development of the MAM01 mAb. The symposium will also explore how modeling can inform future study designs and predict use case scenarios. The symposium will provide a forum for the community to discuss next steps in the clinical development and registration of mAbs including potential targeted populations. Each presenter will provide an overview on prior experience exploring some of these concepts in prior and current projects, but also will discuss important concepts to explore in future mAb clinical trials.

CHAIR
Aissata Ongoiba
ICERMALI, Bamako, Mali

Sara A. Healy
NIH/NIAID/LIG, Rockville, MD, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
MAM01: THE DEVELOPMENT FOR SEASONAL PASSIVE IMMUNIZATION INTERVENTION
Kayla Andrews
Bill & Melinda Gates Medical Research Institute, Cambridge, MA, United States

5:45 p.m.
SECONDARY ANALYSES OF A PHASE 2 TRIAL OF THE ANTI-MALARIA MONOCLONAL ANTIBODY CIS43LS IN MALI
Safiatou N. Doumbo
MRTC/ICERMali, Bamako, Mali

6:05 p.m.
MALI L9LS PEDIATRIC EFFICACY RESULTS
Aissata Ongoiba
MRTC/ICERMALI, Bamako, Mali

6:25 p.m.
L9LS ANTIMALARIA MONOCLONAL ANTIBODY IN KENYAN CHILDREN: INTERIM RESULTS
Titus K. Kwambai
US Centers for Disease Control, Kisumu, Kenya, Kisumu, Kenya

6:45 p.m.
MODELLING TO INFORM DEVELOPMENT AND USE OF MALARIA MAB INTERVENTIONS
Narimane Nekkab
Swiss Tropical and Public Health Institute, University of Basel, Allschwil, Switzerland

Symposium 52

American Committee on Clinical Tropical Medicine and Travelers' Health (Clinical Group - ACCTMTH) Symposium II: Ask the Tropical Medicine Clinical Consultant

Crystal Ballroom B - Lobby Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

This symposium will provide practical content focused on everyday clinical issues busy clinicians might face and for which they might need to reach out for some management advice. The session will feature some less frequently addressed topics and content areas. Each speaker will discuss practical questions related to their field of interest, including issues to consider in the differential diagnosis, methods to make a diagnosis, and potential management.

CHAIR
Mark Kortepeter
USUHS, Bethesda, MD, United States

Miriam Barshak
Massachusetts General Hospital, Massachusetts Eye and Ear, Boston, MA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
TROPICAL EYE INFECTIONS
Miriam Barshak
Massachusetts General Hospital, Massachusetts Eye and Ear, Boston, MA, United States

5:50 p.m.
TROPICAL NEUROLOGY - CYSTIC LESIONS
Anna Cervantes-Arslanian
Boston University, Boston Medical, Boston, MA, United States

6:15 p.m.
EXOTIC SKIN DISEASES
Aisha Sethi
Yale University School of Medicine, New Haven, CT, United States

6:40 p.m.
TOPICS IN GLOBAL PEDIATRICS
Nadia Sam-Agudu
Global Pediatrics Program, University of Minnesota Medical School and Institute of Human Virology Nigeria in Abuja, Minneapolis, MN, United States

Scientific Session 53

Viruses - Viral Diagnostics, Therapeutics and Antivirals

Regency Ballroom A - Ballroom Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR
Darci Smith
Naval Medical Research Command, Ft. Detrick, MD, United States
Priscila Mayrelle da Silva Castanha
University of Pittsburgh, Pittsburgh, PA, United States

5:15 p.m. **5737**

DISCOVERY OF A SMALL MOLECULE THAT MIMICS A UNIQUE ZIKA-NEUTRALIZING EPITOPE FROM A LARGE LIBRARY OF RANDOM MOLECULAR SHAPES

Priscila Mayrelle Da Silva Castanha[1], Patrick J. McEnaney[2], Yongseok Park[1], Anthea Bouwer[1], Elton Chaves[3], Roberto Lins[3], Nicholas G. Paciaroni[4], Paige Dickson[2], Graham Carlson[4], Marli T. Cordeiro[3], Tereza Magalhães[5], Jodi Craigo[1], Ernesto T A Marques Jr.[1], Thomas Kodadek[2], Donald S. Burke[1]
[1]University of Pittsburgh, Pittsburgh, PA, United States, [2]The Herbert Wertheim UF Scripps Institute for Biomedical Innovation and Technology, Jupiter, FL, United States, [3]Aggeu Magalhaes Institute, Oswaldo Cruz Foundation, Recife, Brazil, [4]Deluge Biotechnologies, Jupiter, FL, United States, [5]Department of Entomology, Texas A&M University, College Station, TX, United States

5:30 p.m. **5738**

PHARMACOKINETICS, TOLERABILITY AND SAFETY OF FAVIPIRAVIR COMPARED TO RIBAVIRIN FOR THE TREATMENT OF LASSA FEVER: A RANDOMIZED CONTROLLED OPEN LABEL PHASE II CLINICAL TRIAL

Mirjam Groger[1], Kevin Okwaraeke[2], Peter Akhideno[3], Meike Pahlmann[1], Christine Kleist[4], Cédric Mbavu[1], Julia Hinzmann[1], Veronika Schlicker[1], Femi Oluwasola Babatunde[3], Ndapewa Ithete[1], Osahogie Edeawe[3], Francisca Naana Sarpong[1], Camille Fritzell[5], Alexandre Duvignaud[5], Denis Malvy[5], Sylvanus Okogbenin[3], Marie Jaspard[5], Sebastian G. Wicha[4], Stephan Günther[1], Michael Ramharter[1], Oluwafemi Ayodeji[2], Cyril Erameh[3]
[1]Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [2]Federal Medical Centre Owo, Owo, Nigeria, [3]Irrua Specialist Teaching Hospital, Irrua, Nigeria, [4]University of Hamburg, Hamburg, Germany, [5]Institut National de la Santé et de la Recherche Médicale 1219, Bordeaux, France

5:45 p.m. **5739**

A BEAD-BASED MULTIPLEX SAMPLE-SPARING ANTIBODY ASSAY FOR DETECTING CURRENT AND PAST DENGUE AND ZIKA VIRUS INFECTIONS

Edwing C. Cuadra[1], Izabella N. Castillo[1], Demetrios L. Samaras[1], Lindsay C. Dahora[1], Filemon Bucardo[2], Megan E. Reller[3], Aravinda M. de Silva[1], Premkumar Lakshmanane[1]
[1]University of North Carolina, Chapel Hill, NC, United States, [2]National Autonomous University of Nicaragua at León, Nicaragua, Leon, Nicaragua, [3]Duke Global Health Institute, Duke University,, Durham, NC, United States

6 p.m. **5740**

DEVELOPMENT AND EVALUATION OF NOVEL NANOBODIES AGAINST ZIKA VIRUS INFECTION

Shuofeng Yuan, Jianli Cao, **Jasper Fuk-Woo Chan**
The University of Hong Kong, Hong Kong, Hong Kong

6:15 p.m. **5741**

GENERATION OF THERAPEUTIC HUMAN MONOCLONAL ANTIBODIES AGAINST HANTAVIRUSES FROM HUMAN-IMMUNE-SYSTEM HUMANIZED DRAGA MICE

Ahmad Faisal Karim[1], Sounak Ghosh Roy[1], Teodor D. Brumeanu[2], Joseph Golden[3], Jay Hooper[3], Sofia A. Casares[1]
[1]Naval Medical Research Command (NMRC), Silver Spring, MD, United States, [2]Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [3]US Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States

6:30 p.m. **5742**

A NON-WHOLE GENOME SEQUENCING APPROACH FOR MONITORING SARS-COV-2 VARIANTS IN BURKINA FASO & KENYA

Caitlin Greenland-Bews[1], Sonal Shah[2], Alice J. Fraser[2], Samuel S. Serme[3], Kephas Otieno[4], Issiaka Soulama[3], Alphonse Ouedraogo[3], Issa Nebie[3], Tegwen Marlais[2], Alfred B. Tiono[3], Emily Adams[1], Simon Kariuki[4], Sodiomon B. Sirima[3], Chris Drakeley[2], Feiko O. ter Kuile[4], Thomas Edwards[1], **David J. Allen**[2]
[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Groupe de Recherche Action en Santé (GRAS), Ouagadougou, Burkina Faso, [4]Kenya Medical Research Institute, Kisumu, Kenya

6:45 p.m. 5743

DETECTION OF BLOOD BIOMARKERS OF NEUROLOGICAL INJURY IN HUMAN CASES OF VIRAL ENCEPHALITIS AND SEVERE DISEASE

Maggie L. Bartlett[1], Heather Poeck-Goux[1], Linwood Johnson[1], Kevin L. Schully[1], Melissa Gregory[2], Joost Brandsma[2], Josh G. Chenoweth[2], Danielle V. Clark[2], Amy Y. Vittor[3], Ronald Hayes[4], Jean-Paul Carrera[5], **Darci R. Smith**[1]
[1]Naval Medical Research Command, Ft. Detrick, MD, United States, [2]The Henry Jackson Foundation, Bethesda, MD, United States, [3]University of Florida, Gainesville, FL, United States, [4]Banyan Biomarkers, San Diego, CA, United States, [5]Gorgas Memorial Institute, Panama City, Panama

Scientific Session 54

One Health II: The Interconnection Between People, Animals, Plants and Their Shared Environment

Regency Ballroom B - Ballroom Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR
Christina M. Bergey
Rutgers University, Piscataway, NJ, United States

Koya Allen
Booz Allen Hamilton, Stuttgart, Germany

5:15 p.m. 5744

PATTERNS OF SARS-COV-2 ACTIVE INFECTIONS AMONG HUMANS AND COHABITATING DOMESTIC ANIMALS OF EAST CENTRAL TEXAS DURING THE EARLY OMICRON WAVE

Francisco C. Ferreira[1], Lisa D. Auckland[1], Rachel E. Busselman[1], Edward Davila[1], Wendy Tang[1], Nathan Sarbo[2], Hayley D. Yaglom[2], Heather Centner[2], Italo B. Zecca[3], Ria R. Ghai[3], Casey B. Behravesh[3], Rebecca S. B. Fischer[1], Gabriel L. Hamer[1], Sarah A. Hamer[1]
[1]Texas A&M University, College Station, TX, United States, [2]Translational Genomics Research Institute, Flagstaff, AZ, United States, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States

5:30 p.m. 5745

REAL-TIME DATA COLLECTION FOR EFFICIENT MICROPLANNING AND MONITORING OF NATIONAL DOG RABIES VACCINATION IN BANGLADESH

Sazid Ibna Zaman[1], MD Nurullah[1], S. M. Golam Kaisar[2], Kamrul Islam[2], Hasan Sayedul Mursalin[2], Md. Ismail Hossain[1], Kazi Nujhat Naila[3], Richard James Maude[1]
[1]Mahidol-Oxford Tropical Medicine Research Unit (MORU), Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, [2]Zoonotic Disease Control Program, CDC, DGHS, Dhaka, Bangladesh, [3]Department of Geography and Environment, Faculty of Earth and Environmental Sciences, University of Dhaka, Dhaka, Bangladesh

5:45 p.m. 5746

GENETIC ADAPTATION OF NONTYPHOIDAL SALMONELLA IN HUMANS, ANIMALS AND IN THE ENVIRONMENT- ANTHROPONOTIC TRANSMISSION?

Denise Dekker[1], Thorsten Thye[1], John Luingu[2], Daniel Minja[2], Sandra Simon[3], Ralf Krumkamp[1], Linda Ofori[4], Samwel Gesase[2], Richard Phillips[5], Charity Wiafe-Akenten[6], Ellis Paintsil[5], Joyce Mbwana[2], Antje Flieger[3], Jürgen May[1]
[1]Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [2]National Institute for Medical Research, Tanga, United Republic of Tanzania, [3]Robert Koch Institute, Wernigerode, Germany, [4]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [5]Kumasi Center for Collaborative Research, Kumasi, Ghana, [6]Kumasi Center for Collaborative Research, Kumasi, Germany

6 p.m. 5747

MOLECULAR AND SEROLOGICAL EVIDENCE OF CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS IN LIVESTOCK AND TICKS IN CAMEROON

Francine Berlange Sado Yousseu[1], Huguette Simo[2], François-Loïc Cosset[3], Natalia Bezerra de Freitas[3], Basile KAMGANG[1], Philip J. McCall[4], Roland NDIP NDIP[5], Vincent Legros[3], Charles S. Wondji[1]
[1]Centre for Research in Infectious Diseases, Yaounde, Cameroon, [2]Centre Pasteur of Cameroon, Yaounde, Cameroon, [3]Centre international de recherche en infectiologie, Lyon, France, [4]Liverpool School of Tropical Medicine and Hygiene, Liverpool, United Kingdom, [5]University of Buea, Buea, Cameroon

6:15 p.m. 5748

MOLECULAR CHARACTERIZATION OF EXTENDED - SPECTRUM BETA - LACTAMASE PRODUCING KLEBSIELLA PNEUMONIAE AMONG CHILDREN AND LIVESTOCK IN RURAL KOROGWE, TANZANIA

Neyaz Ahmed Khan[1], Joyce Mbwana[2], Thorsten Thye[3], John Lusingu[2], Hagen Frickmann[4], Charity W. Akenten[5], Joseph Kaseka[2], Maike Lamshöft[3], Samwel Gesase[2], Daniel Minja[2], Jürgen May[3], Ralf Krumkamp[3], Wolfgang Streit[6], Denise Dekker[1]
[1]One Health Bacteriology group, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [2]National Institute for Medical Research, Tanga, United Republic of Tanzania, [3]Department Infectious Disease Epidemiology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [4]Department of Microbiology, Virology and Hygiene, University Medicine Rostock, Rostock, Germany, [5]Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, [6]Department of Biology, University of Hamburg, Hamburg, Germany

6:30 p.m. 5749

RECONSTRUCTING RODENT CONTACT NETWORKS FROM TRAPPING DATA TO UNDERSTAND LASSA FEVER TRANSMISSION NETWORKS

David Simons[1], Rory Gibb[2], Umaru Bangura[3], Ravi Goyal[4], Rashid Ansumana[5], Deborah Watson-Jones[6], Richard Kock[1], Kate E. Jones[2]
[1]The Royal Veterinary College, London, United Kingdom, [2]University College London, London, United Kingdom, [3]Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [4]University of California San Diego, San Diego, CA, United States, [5]Njala University, Bo, Sierra Leone, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom

6:45 p.m. 5750

HEALTHY CHILDREN, HEALTHY CHIMPS: A RESEARCH-PRACTICE PARTNERSHIP FOR REDUCING RESPIRATORY DISEASE TRANSMISSION FROM HUMANS TO CHIMPANZEES IN UGANDA

Taylor Weary[1], Tressa Pappas[2], Patrick Tusiime[3], Shamilah Tuhaise[3], Elizabeth Ross[3], James Gern[2], Tony Goldberg[1]
[1]University of Wisconsin School of Veterinary Medicine, Madison, WI, United States, [2]University of Wisconsin School of Medicine and Public Health, Madison, WI, United States, [3]The Kasiisi Project, Fort Portal, Uganda

Scientific Session 55

Mosquitoes- Bionomics, Behavior and Surveillance

Regency Ballroom C - Ballroom Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

CHAIR
Gloria Salome Gabriel Shirima
Nelson Mandela African Institution of Science and Technology, Arusha, United Republic of Tanzania

Hector Manuel Sanchez
University of California Berkeley, Berkeley, CA, United States

5:15 p.m. 5751

ASSESSING SHIFTS IN BITING PATTERNS OF *ANOPHELES GAMBIAE* AND *ANOPHELES* FUNESTUS, THE MAJOR MALARIA VECTORS IN SOUTHEASTERN TANZANIA

Janice S. Maige[1], Alphonce A. Assenga[2], Tegemeo Gavana[2], Gloria S.G Shirima[3], Protas Sayo[2], Yeromin Mlacha[2], Samson S. Kiware[4], Prosper Chaki[2]
[1]University of Dar es Salaam, Dar es Salaam, United Republic of Tanzania, [2]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [3]The Nelson Mandela African Institution of Science and Technology, Arusha, United Republic of Tanzania, [4]Pan-African Mosquito Control Association, Nairobi, Kenya

5:30 p.m. 5752

THE ROLE OF SEROTONIN IN MOSQUITO SWARMING AND AUDITORY PERCEPTION OF MATES

David A. Ellis, Judit Bagi, Scott Tytheridge, Marta Andres
University College London, London, United Kingdom

5:45 p.m. 5753

A SEMI-FIELD SYSTEM TO DEFINE THE CHEMOSENSORY BASIS OF MALARIA TRANSMISSION AT HIGH DEFINITION

Diego Giraldo[1], Stephanie Rankin-Turner[1], Abel Corver[2], Genevieve M. Tauxe[1], Anne L. Gao[1], Dorian M. Jackson[1], Limonty Simubali[3], Christopher Book[3], Jennifer C. Stevenson[3], Philip E. Thuma[3], Rajiv C. McCoy[2], Andrew Gordus[2], Monicah M. Mburu[3], Edgar Simulundu[3], Conor J. McMeniman[1]
[1]W. Harry Feinstone Department of Molecular Microbiology and Immunology, Johns Hopkins Malaria Research Institute, Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, [2]Department of Biology, Johns Hopkins University, Baltimore, MD, United States, [3]Macha Research Trust, Choma District, Zambia

6 p.m. 5754

IS THE INVASION AND SPREAD OF THE URBAN MALARIA VECTOR *ANOPHELES* STEPHENSI INTO AND ACROSS AFRICA MEDIATED BY WINDBORNE MIGRATION?

Tovi Lehmann[1], Roland Bamou[1], Jason Chapman[2], Don Reynolds[3], Peter Armbruster[4], Adama Dao[5], Alpha Yaro[6], Tom Burkot[7], Yvonne-Marie Linton[8]
[1]NIH, Bethesda, MD, United States, [2]Exeter University, Exeter, United Kingdom, [3]University of Greenwich, Greenwich, United Kingdom, [4]Georgetown University, Washington, DC, United States, [5]Mali ICEMR, Bamako, Mali, [6]ICER Mali, Bamako, Mali, [7]James Cook University, Cairns, Australia, [8]WRAIR, Silver Spring, MD, United States

6:15 p.m. 5755

VECTOR AND HOST DIVERSITY SHAPE WEST NILE VIRUS TRANSMISSION IN URBAN GREEN SPACES ALONG AN URBAN-RURAL TRANSECT

Andrew Mackay[1], Jiayue Yan[1], Chang-Hyun Kim[1], Seth Magle[2], Maureen Murray[2], Mike Ward[1], **Chris M. Stone**[1]
[1]University of Illinois Urbana-Champaign, Champaign, IL, United States, [2]Urban Wildlife Institute, Lincoln Park Zoo, Chicago, IL, United States

6:30 p.m. 5756

MGSURVE: A FRAMEWORK TO OPTIMIZE TRAP PLACEMENT FOR GENETIC SURVEILLANCE OF MOSQUITO POPULATIONS

Hector Manuel Sanchez Castellanos[1], David L. Smith[2], John M. Marshall[1]
[1]University of California Berkeley, Berkeley, CA, United States, [2]Institute for Health Metrics and Evaluation, Seattle, WA, United States

6:45 p.m. 5757

DESIGN AND PRELIMINARY FIELD VALIDATION OF A HANDHELD TOOL FOR AUTOMATED MORPHOLOGICAL IDENTIFICATION OF MOSQUITO SPECIES, SEX, AND ABDOMINAL STATUS BY VILLAGE HEALTH TEAMS (VHTS) IN UGANDA, FOR COMMUNITY-BASED VECTOR SURVEILLANCE

Soumyadipta Acharya[1], Deming Li[1], Shruti Hegde[1], Aravind S. Kumar[1], Saisamhita Dasari[1], Bhavya Gopinath[1], Carter J. Gaulke[1], Sunny Patel[1], Rebecca Rosenberg[1], Janis Iourovitski[1], Summer Duffy[1], Christina Hummel[1], Onanyang David[2], Kaweesa James[2], Kigongo Siriman[2], Batte D. Jovan[2], Venkat Mukthineni[1], Khalil Merali[1], Radha V. Taralekar[1]
[1]Johns Hopkins University, Center for Bioengineering innovation and Design, Baltimore, MD, United States, [2]Vector Borne and Neglected Tropical Diseases Control Division, Ministry of Health, Kampala, Uganda

Symposium 56

Genetic and Genomic Approaches to Elucidate Evolutionary Selection and Drive the Elimination Agenda

Regency Ballroom D - Ballroom Level (West Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

Malaria parasites have coevolved with humans and the mosquito vector over tens of thousands of years. This co-evolution continues to impact the fitness of man, mosquito, and malaria parasite. The introduction of antimalarial drugs to kill malaria parasite blood stage parasites has resulted in the evolution of drug resistant parasites over a very short period. This evolution has driven waves of drug susceptible parasite attrition and expansion of drug resistant parasite populations. Resistant parasites spread across continents and thwart malaria control efforts. Drug pressure has fundamentally altered the *Plasmodium falciparum* parasite genome and as an example, mutations in pfcrt that drive chloroquine and aminoquinoline resistance are fixed in large parts of Southeast Asia. Similarly, the introduction of insecticidal drugs to kill the mosquito malaria vector has driven the evolution of insecticide resistant mosquitoes and these signatures of resistance have spread. The malaria parasite, human host and mosquito vector genomes have now all been sequenced, and this has enabled the systematic investigation of gene function as well as genetic signatures of natural and intervention induced selection. More recently, technical breakthroughs and reduced costs have accelerated data generation and facilitated rapid intervention responses to the spread of drug resistance in parasite species, insecticide resistance in vector species and the human genetic determinants of parasite carriage. In this symposium we will discuss recent insights into signatures and mechanisms of parasite, host, and vector genetic adaptation to infection. Dr. Charles Wondji will describe efforts to understand mosquito vector genetics and how the genome is evolving in the face of insecticide pressure. Dr. Silvia Kariuki will describe how polymorphisms in blood group variants protect carriers from severe malaria disease. Dr. Toshihiro Mita will describe how parasite genome sequencing and both *in vivo* and *in vitro* drug susceptibility measurements are being used to uncover novel mutations associated with artemisinin resistance in Africa. Dr. Ashley Vaughan will describe how experimental genetic crosses between *P. falciparum* strains

and bulk segregant analyses can uncover novel mechanisms of drug resistance. Finally, Dr. Matthias Marti will demonstrate the power of genome-wide association studies in uncovering a link between the spread of drug resistance and the genetics of malaria transmission.

CHAIR

Matthias Marti
University of Zurich, Zurich, Switzerland

Ashley Vaughan
Seattle Children's Research Institute, Seattle, WA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
A GENETIC LINK BETWEEN MALARIA TRANSMISSION AND DRUG RESISTANCE IDENTIFIED BY GENOME-WIDE ASSOCIATION STUDY
Matthias Marti
University of Zurich, Zurich, Switzerland

5:45 p.m.
UNCOVERING NOVEL CO-EVOLUTIONARY MECHANISMS OF *PLASMODIUM FALCIPARUM* DRUG RESISTANCE USING EXPERIMENTAL GENETIC CROSSES
Ashley Vaughan
Seattle Children's Research Institute, Seattle, WA, United States

6:05 p.m.
HOST RESISTANCE TO MALARIA
Silvia Kariuki
KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya

6:25 p.m.
GENETIC DRIVERS OF RESISTANCE ESCALATION IN MALARIA VECTORS
Charles Wondji
Liverpool School of Tropical Mediicne, Liverpool, United Kingdom

6:45 p.m.
TRACKING THE EMERGENCE OF ARTEMISININ RESISTANCE IN THE REPUBLIC OF UGANDA
Toshihiro Mita
Juntendo University, Tokyo, Japan

Special Session 57

Ponder to Probe: A Climate-Health Networking Event

Roosevelt 3B - Concourse Level (East Tower)
Thursday, October 19, 5:15 p.m. - 7 p.m. U.S. Central Time Zone

The ASTMH Committee on Global Health (ACGH) invites you to come speak your mind on contemporary global health issues! Peer-networking is an essential skill needed to establish and advance your global health and tropical medicine career. Networking is needed at every stage of your career and the connections you establish with peers today can be the foundation of future employment, career advancement, key collaborations, successful grants and major scientific advances of tomorrow. This peer-to-peer networking event will center around an informal debate on current key topics of interest to the tropical medicine community, including current infectious disease threats, career challenges and other hot topics pertaining to those pursuing a career in the field of global health. The session will allow participants to present their views on 2-3 pre-determined topics elicited from ACGH members based on current events, field research, scientific discovery, career challenges and general inquiry. Participants will ponder over these issues, probe alternative views, and share ideas in a relaxed setting, while getting to know their peers. Topics discussed can become conversation starters for further networking after the session and throughout the remainder of the annual meeting. This session is recommended for students, early career professionals and experts so topics can be discussed from a range of various perspectives.

Break

Thursday, October 19, 7 p.m. - 7:30 p.m. U.S. Central Time Zone

Symposium 58

An *AJTMH* Tropical Bookshelf Panel with Daisy Hernandez, Author of *The Kissing Bug — A True Story about an Insect, a Family and a Nation's Neglect of a Deadly Disease*

Grand Hall J - Ballroom Level (East Tower)
Thursday, October 19, 7:30 p.m. - 8:30 p.m. U.S. Central Time Zone

This session does not carry CME credit.

Daisy Hernández is the author of *The Kissing Bug: A True Story of a Family, an Insect, and a Nation's Neglect of a Deadly Disease* (Tin House, 2021), which won the PEN/Jean Stein Book Award and was selected as an inaugural title for the National Book Foundation's Science + Literature Program. The book was named a top 10 nonfiction book of 2021 by Time magazine and was a finalist for the New American Voices Award. She has spoken about the subject of her book—Chagas disease, neglected diseases in general and racial disparities in healthcare—on MSBNC, and at the Carter Center and the Pan American Health Organization.

CHAIR

Claire Panosian
UCLA David Geffen School of Medicine, Los Angeles, CA, United States

7:30 p.m.
INTRODUCTION

7:35 p.m.
MEET THE AUTHOR
Daisy Hernandez
Northwestern University, Chicago, IL, United States

7:50 p.m.
QUESTIONS AND ANSWERS WITH THE AUTHOR - MODERATORS
Claire Panosian
UCLA David Geffen School of Medicine, Los Angeles, CA, United States

Christine Petersen
University of Iowa, Iowa City, IA, United States

8:10 p.m.
PANEL DISCUSSION

Norman Beatty
University of Florida, Gainesville, FL, United States

Sarah Hamer
Texas A&M University, College Station, TX, United States

Friday, October 20

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)
Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

Speaker Ready Room (Closed 11 a.m. - Noon)

Grand Suite 2AB - Ballroom Level (East Tower)
Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

TropStop -Student/Trainee Lounge

Grand Hall MN – Ballroom Level (East Tower)
Friday, October 20, 7 a.m. - 5 p.m. U.S. Central Time Zone

This casual setting, designed with students, trainees and residents in mind (coffee, internet), is your place for a break from the fast-pace of the meeting and relax with colleagues and friends. Check out the "Career Chats," held in the TropStop. This will be your opportunity to meet professionals in the fields of tropical medicine and global health who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Meeting Sign-Up Room

Horner and Ogden - Third Floor (West Tower)
Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Friday, October 20, 7 a.m. - 7 p.m. U.S. Central Time Zone

Burroughs Wellcome Fund-ASTMH Fellowship Committee Meeting

Michigan Boardroom, Concourse Level, East Tower
7 a.m. - 8 a.m. U.S. Central Time Zone

Trainee Membership Committee Meeting

McCormick - Third Floor (West Tower)
Friday, October 20, 7 a.m. – 8 a.m.

Sponsored Symposium

Chikungunya Virus: A Growing Preventable Risk to Travelers in a Warming Planet

Grand Hall J - Ballroom Level (East Tower)
Friday, October 20, 7 a.m. - 8:45 a.m. United States Central Time Zone
Sponsored by Medscape
See page 54 for information.
This session does not carry ASTMH CME credit.

Sponsored Symposium

Climate Change and Malaria Elimination: Perspectives from the Ground

Grand Hall K - Ballroom Level (East Tower)
Friday, October 20, 7 a.m. - 8:45 a.m. United States Central Time Zone
Sponsored by Global Institute for Disease Elimination (GLIDE)
See page 54 for information.
This session does not carry ASTMH CME credit.

Sponsored Symposium

Achieving Global Malaria Targets Relies on Quality Health Services: Lessons Learned and Results from PMI's Support for Quality Improvement of Healthcare Services for Malaria

Crystal Ballroom A - Lobby Level (West Tower)
Friday, October 20, 7 a.m. - 8:45 a.m. United States Central Time Zone
Sponsored by U.S. President's Malaria Initiative (PMI) Impact Malaria
See page 53 for information.
This session does not carry ASTMH CME credit.

Press Room

Randolph 1A - Concourse Level (East Tower)
Friday, October 20, 7:45 a.m. - 5 p.m. U.S. Central Time Zone

Plenary Session 59

LIVE STREAMING

Plenary Session III: Commemorative Lecture

Grand Ballroom CDEF - Ballroom Level (East Tower)
Friday, October 20, 9 a.m. - 9:45 a.m. U.S. Central Time Zone

The Commemorative Lecture is presented by an outstanding senior scientist in tropical medicine.

CHAIR
Daniel G. Bausch
FIND, Geneva, Switzerland

9 a.m.
INTRODUCTION
Daniel G. Bausch
FIND, Geneva, Switzerland

9:15 a.m.
COMMEMORATIVE LECTURE

Oluwakemi Ogundipe, MD, MPH
Pediatric Advisor
Médecins Sans Frontières/Doctors without Borders (MSF)
Brussels, Belgium

Kemi Ogundipe, MD, MPH is the pediatric advisor for Médecins Sans Frontières/Doctors without Borders (MSF) based in Brussels. In this role she has been supporting their pediatric care programs globally since 2018 by advising MSF projects on the organization and quality of their pediatric care and contributing to MSF guidelines that are used for neonatal and pediatric care worldwide. Previously, Dr. Ogundipe worked extensively in MSF projects, both as a pediatric mobile implementing officer and project doctor. She is from Lagos, Nigeria where she lived until her completion of secondary school. She has also lived in the USA and currently resides in Brussels, Belgium. She is an alumnus of Duke University School of Medicine. She completed her pediatric training at Baylor College of Medicine in a specialized training program focused on global health and pediatric HIV and TB. She holds a master's in public health from the University of North Carolina, Chapel Hill, with a concentration in maternal and child health. She has practiced as a pediatrician in Botswana, Lesotho, South Sudan, Tanzania, Papua New Guinea and Saipan (US Territory). Over the past year, she has traveled to Haiti, Niger, Benin and Nigeria, directly supporting MSF's pediatric care activities and has contributed to the newly-released first edition of the MSF international pediatric guidelines. Her interests are in pediatric HIV and TB, neonatal care, malaria, childhood malnutrition, preventive health and healthcare system improvements.

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Friday, October 20, 9:30 a.m. - 10:30 a.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower)
Friday, October 20, 9:45 a.m. - 10:15 a.m. U.S. Central Time Zone

Poster Session B Set-Up

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Friday, October 20, 9:45 a.m. - 10:15 a.m.

Poster Session B Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Friday, October 20, 10:15 a.m. - Noon

Symposium 60

A Scientist's Cheat Sheet to Understanding Washington, DC

Grand Ballroom A - Ballroom Level (East Tower)
Friday, October 20, 10:15 a.m. - Noon

Every day, research, program, funding, and policy decisions are being made at the U.S. federal lev-el. Whether you realize it or not, you are directly or indirectly impacted by these decisions. To many, Washington, DC, and this process can seem utterly chaotic. When examined more closely, that chaos is built into the system and has a surprisingly regular order to its ebb and flow. This session will focus on understanding the policymaking ecosystem in Washington, DC. Topics will include how Congress really works (yes, it can really work), how a bill becomes a law, the White House and federal agency's roles in policymaking, the ever-present power struggles, and most common breakdowns in the process. What are the roles of coalitions and professional societies like ASTMH in speaking up for the science community? In these trying times, do these longstand-ing models work? What is the role of social media in advocacy? What impact does a new owner of a social media platform have on you as a user? How can you use social media to convey the value of your work?

CHAIR
Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

10:15 a.m.
INTRODUCTION

10:20 a.m.
THE IMPORTANCE OF UNDERSTANDING WASHINGTON AND HOW POLICY IS MADE
Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

10:35 a.m.
HOW DOES WASHINGTON REALLY WORK AND WHAT IS THE US ROLE IN GLOBAL HEALTH RESEARCH FUNDING?
Jodie Curtis
Venable LLP, Washington, DC, United States

10:50 a.m.
A WINDOW INTO ADVOCACY - A LIVED EXPERIENCE
Margaret McDonnell
United to Beat Malaria, UN Foundation, Washington, DC, United States

11:05 a.m.
USING SOCIAL MEDIA STRATEGICALLY AND EFFECTIVELY
Gideon Hertz
Burness, Bethesda, MD, United States

11:20 a.m.
TRANSLATING SCIENCE INTO KEY MESSAGES FOR POLICYMAKERS
Daniel G. Bausch
FIND, Geneva, Switzerland

Symposium 61

Benefits and Challenges of WHO Chemoprevention Guidelines Giving Increased Autonomy for Decision Making to Countries

Grand Ballroom B - Ballroom Level (East Tower)
Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

In June 2022 WHO released updated recommendations for malaria chemoprevention. According to presentations shared by WHO, the updated recommendations reflected a paradigm shift to provide greater flexibility to NMPs to adapt control strategies to suit their settings. This means there is more decision-making happening at the county level when determining the exact modalities to be used for interventions such as perennial malaria chemoprevention (PMC), which is the expanded recommendation replacing the previous intermittent preventive treatment in infants. This shift presents both opportunities and challenges for countries that are early adopters of PMC. For example, countries need to determine how to adapt these more permissive recommendations, often without having the full set of ideal data available. Countries may also grapple with when, where, and how to scale different chemoprevention strategies – balancing decisions around cost, effectiveness, and practicality all while trying to maximize impact at a time when resources for malaria are flat despite the urgent need. This symposium brings together different perspectives and recent experience on adapting chemoprevention guidelines and will bring to light benefits and challenges resulting from the 2022 updated WHO chemoprevention guidelines. The symposia will start with an orientation on WHO's revised chemoprevention recommendations and the process of revision. A speaker from the MoH in Cameroon will share his experiences with the process to adapt and integrate chemoprevention into their sub-nationally tailored plans. Next a speaker from PATH will share how the role of NGOs may be changing as a result of WHO's more flexible guidelines, and a speaker from MMV will share results from forecasting work designed to understand the potential demand for

SP for PMC. Finally, a speaker from Malaria Consortium will share how more flexibility in guidelines is creating the opportunity for the chemoprevention community to share and learn.

CHAIR
Jacques Kouakou
Population Services International, Abidjan, Côte D'Ivoire

10:15 a.m.
INTRODUCTION

10:20 a.m.
BACKGROUND ON WHO DECISION TO INCREASE COUNTRY ADAPTED CHEMOPREVENTION DESIGNS
Dorothy Fosah Achu
WHO AFRO, Brazzaville, Republic of the Congo

10:30 a.m.
OPTIMIZING THE CHEMOPREVENTION MIX (PMC AND SMC) IN CAMEROON
Junior Voundi Voundi
National Malaria Control Program, Yaounde, Cameroon

10:40 a.m.
THE EVOLVING ROLE OF NGOS: FROM IMPLEMENTORS TO FACILITATORS?
Rova Ratsimandisa
PATH, Kinshasa, Democratic Republic of the Congo

10:50 a.m.
PMC FORECAST: ESTIMATE THE POTENTIAL DEMAND FOR PMC SP FOR A NUMBER OF PREDEFINED SCENARIOS
Céline Audibert
Medicines for Malaria Venture, Geneva, Switzerland

11 a.m.
OPPORTUNITIES FOR LEARNING THROUGH A COMMUNITY OF PRACTICE: HOW FLEXIBLE AND ADAPTABLE GUIDELINES CREATE OPPORTUNITIES FOR LEARNING AND RAPID IMPROVEMENT IN IMPLEMENTATION
Olusola Oresanya
Malaria Consortium, Abuja, Nigeria

Symposium 62

Cash for Climate? The Role of Funders and Upstream Stakeholders in Promoting Environmental Sustainability in Global Health Research

Grand Hall J - Ballroom Level (East Tower)
Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Climate change is here and we are feeling its consequences for water, food security, ecosystems, and human health. However, little attention has been paid to the role academic funders have in shaping sustainable research practices. Funders have a unique opportunity to accelerate the decarbonization of global health. Our collective carbon footprint is significant. Greenhouse gasses are emitted from the energy used to power hospitals, labs, and data centers, from the fuel burned from commuting and air travel, and the carbon in the equipment and consumables we purchase. Institutions across the globe are defining their climate ambitions for the coming decades, with several committing to net-zero targets before 2050. Funders can stimulate these ambitions by influencing expectations and standards in the working culture of the academic sector. By committing to reduce emissions from their own operations and valuing the efforts of grantee institutions to decarbonize, funders could accelerate the decarbonization of global health. Such efforts would need to take into account the different settings of institutions in high-, and low- and middle-income countries, with funders requiring, incentivizing and supporting grantee institutions in the transition to low-carbon operations in accordance with these contexts. Leadership from funders can help us to rapidly and substantially decarbonize global health. Panelists will discuss sustainability policies and operations in their institutions and what they see as the key next steps in our collective work. Hosted by the Green Task Force, this panel seeks to promote honest dialogue about climate change and our "bottom line" as individual researchers and a collective Society.

CHAIR
Hanna Ehrlich
University of California Davis, Davis, CA, United States
Michele Barry
Stanford University, Palo Alto, CA, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
ADVANCING ENVIRONMENTALLY SUSTAINABLE HEALTH RESEARCH
Talia Caplan
Wellcome Trust, London, United Kingdom

10:35 a.m.
CLEAN MODERN ENERGY FOR ALL: BENEFITING HEALTH, SOCIETY, ENVIRONMENT, AND CLIMATE IN SUB-SAHARAN AFRICA TO ACHIEVE THE 2030 SUSTAINABLE DEVELOPMENT GOALS
James Mwitari
Kenya Medical Research Institute, Nairobi, Kenya

10:45 a.m.
PARTNERSHIPS AROUND CLIMATE CHANGE – LEARNING FROM THE COVID ERA
Liam Smeeth
London School of Hygiene & Tropical Medicine, London, United Kingdom

10:55 a.m.
ASTMH GREEN TASK FORCE
Hanna Ehrlich
University of California Davis, Davis, CA, United States

Scientific Session 63

LIVE STREAMING

Malaria - Antimalarial Resistance and Chemotherapy

Grand Ballroom CDEF - Ballroom Level (East Tower)

Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

This session does not carry CME credit.

CHAIR

Thuy-Nhien Nguyen
Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam

Carola Salas
ASTMH Scientific Program Committee, Lima, Peru

10:15 a.m. 5758

ELUCIDATING THE INTERACTIONS OF PFCRT AND PLASMEPSINS 2/3 IN MODULATING FITNESS AND RESISTANCE IN *PLASMODIUM FALCIPARUM* TO PIPERAQUINE AND OTHER ARTEMISININ PARTNER DRUGS

Davin Hong[1], Satish K. Dhingra[2], Tomas Yeo[2], David A. Fidock[2], Sachel Mok[2]
[1]Nanyang Technological University, Singapore, Singapore, [2]Columbia University Irving Medical Center, New York, NY, United States

10:30 a.m. 5759

UNDERSTANDING LEAD DISCOVERY ANTIMALARIAL DRUGS RESISTANCE TRANSLATION FROM LAB TO FIELD PARASITES TOWARD SUSTAINABLE MALARIA ELIMINATION

Fatoumata O. Maiga, Laurent Dembélé, Mohamed Maiga, Ousmaila Diakité, Fanta Sogoré, Sekou Sissoko, Antoine Dara, Abdoulaye A Djimde
Université des Sciences, des Techniques et des Technologies de Bamako (USTTB), Faculté de Pharmacie, Malaria Research and Training Center (MRTC), Point G. PBE : 1805., Bamako, Mali

10:45 a.m. 5760

CONFIRMED ARTEMISININ PARTIAL RESISTANCE AND HIGH EFFICACY OF ARTEMETHER - LUMEFANTRINE AND ARTESUNATE - AMODIAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN NORTH-WESTERN TANZANIA

Deus S. Ishengoma[1], Celine I. Mandara[1], Rashid Madebe[1], Catherine Bakari[1], Misago D. Seth[1], Filbert Francis[2], Creyton Buguzi[1], Issa Garimo[3], Samwel Lazaro[4], Abdallah Lusasi[4], Sijenunu Aron[4], Frank Chacky[4], Ally Mohamed[4], Ritha J.A Njau[5], Jovin Kitau[6], Jeffrey Bailey[7], Jonathan Juliano[8], Marian Warsame[9], Pascal Ringwald[10]
[1]National Institution for Medical Research, Dar es Salaam, United Republic of Tanzania, [2]National Institution for Medical Research, Tanga, United Republic of Tanzania, [3]National Malaria Control Program, Dodoma, United Republic of Tanzania, [4]National Malaria Control Program, Dar es Salaam, United Republic of Tanzania, [5]Malariologist and Public Health Specialist, Dar es Salaam, United Republic of Tanzania, [6]World Health Organization, Country Office, Dar es Salaam, United Republic of Tanzania, [7]Department of Pathology and Laboratory Medicine and Center for Computational Biology, Brown University, Providence, USA, RI, United States, [8]University of North Carolina, Chapel Hill, NC, United States, [9]Gothenburg University, Gothenburg, Sweden, [10]World Health Organization, Geneva, Switzerland

11 a.m. 5761

A RAPID DECLINING OF MULTIDRUG RESISTANT KEL1/PLA1 *PLASMODIUM FALCIPARUM* PARASITE IN VIETNAM DURING 2020-2022, A RESULT OF DRUG POLICY CHANGE

Thuy-Nhien Nguyen[1], Huynh Hong Quang[2], Tuyen Nguyen[1], Nhat Tran[1], Olivo Miotto[3]
[1]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [2]Institute of Malariology, Parasitology and Entomology -Quy Nhon, Binh Dinh, Vietnam, [3]Mahidol Oxford Research Unit and Oxford University, Bangkok, Thailand

11:15 a.m. 5762

ASSOCIATIONS BETWEEN SULFADOXINE-PYRIMETHAMINE+ AMODIAQUINE CONCENTRATIONS, MALARIA INCIDENCE, AND RESISTANCE MARKERS IN CHILDREN RECEIVING SEASONAL MALARIA CHEMOPREVENTION IN BURKINA FASO

Issaka Zongo[1], Alassane Haro[1], **Michelle E. Roh**[2], Romaric Oscar Zerbo[1], Liusheng Huang[3], Aristide Sawadogo[1], Jennifer Legac[4], Anyirékun Fabrice Somé[1], Rakiswendé Serge Yerbanga[1], Erika Wallender[3], Francesca Aweeka[3], Jean-Bosco Ouédraogo[5], Philip J. Rosenthal[4]
[1]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, [2]Department of Epidemiology and Biostatistics, University of California, San Francisco, San Francisco, CA, United States, [3]Department of Clinical Pharmacy, University of California, San Francisco, San Francisco, CA, United States, [4]Department of Medicine, University of California, San Francisco, San Francisco, CA, United States, [5]Institut des Sciences et Techniques, Bobo-Dioulasso, Burkina Faso

11:30 a.m. 5763

POTENTIAL SUITABILITY OF SULFADOXINE-PYRIMETHAMINE PLUS AMODIAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION IN AREAS OF HIGH, PRE-EXISTING DRUG RESISTANCE

Gina Maria Cuomo-Dannenburg[1], Andria Mousa[2], Sam Gudoi[3], Kevin Baker[3], Maria Suau Sans[3], Chuks Nnaji[3], John Baptist Bwanika[3], Ivan Alejandro Pulido Tarquino[3], Christian Rassi[3], Monica A. de Cola[1], Craig Bonnington[3], Robert Verity[1], Matthew Cairns[2], Paul Milligan[2], Cally Roper[2], Lucy Okell[1], Patrick G T Walker[1]
[1]Imperial College London, London, United Kingdom, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Malaria Consortium, London, United Kingdom

11:45 a.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

6770

IN VIVO EFFICACITY OF SULFADOXINE PYRIMETHAMINE IN PREGNANT WOMEN INFECTED WITH *PLASMODIUM FALCIPARUM* IN MALI

Coulibaly Oumou
University of Sciences, Technics and Technology of Bamako, Mali, Bamako, Mali

6771

TRANSCRIPTOMIC APPROACH TOWARDS UNDERSTANDING THE MOLECULAR MECHANISMS OF IMIDAZOLOPIPERAZINE (IPZ) IN THE MALARIA PARASITE *PLASMODIUM FALCIPARUM*

Mohamed MAIGA[1], Antoine Dara[1], Devendra Kumar Gupta[2], Abdoulaye Djimdé[1], Laurent Dembele[1]
[1]Université des Sciences des Techniques et des Technologies de Bamako (USTTB), Bamako, Mali, [2]Novartis Institute for Tropical Diseases, California, CA, United States

6780

MOLECULAR SURVEILLANCE OF *PLASMODIUM FALCIPARUM* DRUG RESISTANCE REVEALS PRESENCE OF I431V DHPS MUTATION IN PARASITES HARBORING QUINTUPLE AND QUADRUPLE DHPS MUTATIONS IN SENEGAL

Mouhamad Sy[1], Yaye Die Ndiaye[1], Wesley Wong[2], Mamadou Alpha Diallo[1], Amy Gaye[1], Tolla Ndiaye[1], Aida Sadikh Badiane[1], Baba Dieye[1], Ibrahima Mbaye Ndiaye[1], Younousse Diedhiou[1], Amadou Moctar Mbaye[1], Aita Sene[1], Djiby Sow[1], Lamine Ndiaye[1], Khadim Diongue[1], Mamane Nassirou Garba[1], Mouhamadou Ndiaye[1], Bronwyn MacInnis[3], Dyann F. Wirth[1], Sarah K. Volkman[2], Daouda Ndiaye[1]

[1]International Research and Training Center for Applied Genomics and Health Surveillance (CIGASS) at UCAD, Dakar, Senegal, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [3]Broad Institute of MIT and Harvard, Cambridge, MA, United States

6788

UNDERSTANDING THE DEVELOPMENT OF DRUG RESISTANCE IN LIVER STAGES OF *PLASMODIUM FALCIPARUM*

Margarida T. Grilos[1], Ines Marreiros[1], Malhar Khushu[2], Selina Bopp[2], David Calvo[1], David Cebrián[1], Carmen Cuevas[1], Sara Viera-Morilla[1], Dyann F. Wirth[2], Maria Jose Lafuente-Monasterio[1], Amanda K. Lukens[3]

[1]GlaxoSmithKline, Tres Cantos, Spain, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [3]Broad Institute of MIT and Harvard, Cambridge, MA, United States

6784

QPCR ANALYSIS OF RING STAGE SURVIVAL ASSAYS FOR SURVEILLANCE OF ARTEMISININ PARTIAL RESISTANCE IN *PLASMODIUM FALCIPARUM*

Martin Okitwi[1], Douglas A. Shoue[2], Lisa A. Checkley[2], Mackenzie A.C. Sievert[2], Frida G. Ceja[3], Patrick K. Tumwebaze[4], Jeffrey A. Bailey[5], Melissa D. Conrad[6], Philip J. Rosenthal[7], Michael T. Ferdig[2], Roland A. Cooper[3]

[1]Infectious Disease Research Collaboration, Kampala, Uganda, [2]University of Notre Dame, South Bend, IN, United States, [3]Dominican University of California, San Rafael, CA, United States, [4]Infectious Diseases Research Collaboration, Kampala, Uganda, [5]Brown University, Providence, RI, United States, [6]3University of California, San Francisco, CA, United States, [7]University of California, San Francisco, CA, United States

Symposium 64

Advances in Treatment and Diagnostics for Disease Caused by Pathogenic Free - Living Amoebae

Grand Hall K - Ballroom Level (East Tower)

Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Infections with pathogenic free-living amoebae (FLA) yield higher fatality rates (>90%) than any eukaryotic parasite, yet they remain the least studied of all tropical diseases of humankind. Each of the amoebae are normally free-living and are ubiquitous in warm fresh water and soil. Naegleria fowleri causes Primary Amoebic Meningoencephalitis (PAM), an acute, uniformly fatal central nervous system (CNS) infection that ensues following entry of the amoebae into the nasal cavity. Balamuthia mandrillaris is a chronic infection and causes cutaneous lesions followed by hematogenous spread to the brain that results in Balamuthia Amoebic Encephalitis (BAE). Acanthamoeba keratitis (AK) is the most prevalent of any infection with FLA, yet Acanthamoeba spp. also can cause a chronic deadly CNS infection known as Granulomatous Amoebic Encephalitis (GAE). The purpose of this symposium is to review the significant and impactful new results that demonstrate new treatments and novel biomarkers of infection. Treatment of BAE usually consists of a cocktail of antibiotics and antifungals, but efficacy is poor and unfortunately results in death of most BAE patients. A remarkable case study will be presented that demonstrates a paradigm shift in treatment regimens for FLA. Nitroxoline, a repurposed drug for urinary tract infections, was identified in an *in vitro* drug screen and then used to successfully treat a BAE patient. One of the many unknowns about N. fowleri is why some individuals get infected, whereas millions of people are similarly exposed. We will present new data that demonstrate some isolates of N. fowleri are significantly more virulent than others. In addition, we will describe a novel biomarker in plasma or serum that can be used to detect N. fowleri infection 2-3 days before animals exhibit signs of infection. A major impediment to validation of drug targets and elucidation of N. fowleri biology is the lack of genetic tools. Recent advances in genome editing will be described as will a new target for drug discovery for PAM therapeutics. Finally, Acanthamoeba infections are difficult to treat in part because the amoeba encyst in the CNS or cornea and these forms are highly resistant to commonly used drugs and biocides. Recent studies suggest that methods commonly used to assess killing of cysts overestimate efficacy. New methods to discover cysticidal activity will be presented as well as new cysticidal and trophocidal drugs will be profiled.

CHAIR

Dennis E. Kyle
University of Georgia, Athens, GA, United States

James Morris
Clemson University, Clemson, SC, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
CASE STUDY OF NITROXOLINE FOR TREATMENT OF BALAMUTHIA GRANULOMATOUS ENCEPHALITIS

Natasha Spottiswoode
University of California San Francisco, San Francisco, CA, United States

10:50 a.m.
VARIATIONS IN VIRULENCE AND DISCOVERY OF EARLY BIOMARKERS FOR PRIMARY AMOEBIC MENINGOENCEPHALITIS

Dennis E. Kyle
University of Georgia, Athens, GA, United States

11:15 a.m.
ADVANCES IN DRUG DISCOVERY AND TOOL DEVELOPMENT FOR NAEGLERIA FOWLERI

James Morris
Clemson University, Clemson, SC, United States

11:40 a.m.
CYSTICIDAL DRUGS FOR THE TREATMENT OF ACANTHAMOEBA KERATITIS

Christopher A. Rice
Purdue University, West Lafayette, IN, United States

Scientific Session 65

Filariasis – Epidemiology and Control

Grand Hall L - Ballroom Level (East Tower)

Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR

Kenneth Pfarr
Institute of Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany

Jesica Herrick
University of Illinois at Chicago, Chicago, IL, United States

10:15 a.m. 5764

WUCHERERIA BANCROFTI MICROFILARIAE POSITIVE INDIVIDUALS SHOW AN INCREASED HUMAN IMMUNODEFICIENCY VIRUS INCIDENCE IN A GENERAL POPULATION STUDY IN SOUTHWEST TANZANIA

Jonathan L. Mnkai[1], Manuel Ritter[2], Lucas Maganga[3], Leonard Maboko[3], Willyhelmina Olomi[1], Agola Eric Lelo[4], Daniel Kariuki[5], Alexander Yaw Debrah[6], Christof Geldmacher[7], Michael Hoelscher[7], Elmar Saathoff[7], Mkunde Chachage[1], Kenneth Pfarr[2], Achim Hoerauf[2], Inge Kroidl[7]

[1]National Institute for Medical Research, Mbeya Medical Research Centre (NIMR-MMRC), Mbeya, United Republic of Tanzania, [2]Institute for Medical Microbiology, Immunology and Parasitology (IMMIP), University Hospital Bonn (UKB), 53127, Bonn, Germany, [3]Tanzania Commission for AIDS, Dar es Salaam, United Republic of Tanzania, [4]Kenya Medical Research Institute (KEMRI), KNH, Nairobi, Kenya, [5]College of Health Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya, [6]Kumasi Centre for Collaborative Research (KCCR), Kwame Nkrumah University of Science and Technology, UPO, PMB, Kumasi, Ghana, [7]Division of Infectious Diseases and Tropical Medicine, University Hospital of the University of Munich (LMU), 80802, Munich, Germany

10:30 a.m. 5765

DEVELOPING THE NATURAL PRODUCT CORALLOPYRONIN A TO TREAT FILARIASIS, STIS AND STAPHYLOCOCCI

Kenneth Pfarr[1], Andrea Schiefer[1], William Shafer[2], Jennifer Edwards[3], Tim Becker[1], Gabriele Bierbaum[1], Stefan Kehraus[4], Miriam Grosse[5], Alexandra Ehrens[1], Tanja Schneider[4], Katharina Rox[5], Marc P. Hübner[1], Karl G. Wagner[4], Thomas Hesterkamp[6], Marc Stadler[5], Achim Hoerauf[1]

[1]University Hospital Bonn, Bonn, Germany, [2]Emory Univeristy, Atlanta, GA, United States, [3]Nationwide Children's Hospital, Columbus, OH, United States, [4]University of Bonn, Bonn, Germany, [5]Helmholtz Centre for Infection Research, Braunschweig, Germany, [6]German Center for Infection Research, Braunschweig, Germany

10:45 a.m. 5766

ANIMALS AS RESERVOIR OF *BRUGIA MALAYI* IN BELITUNG DISTRICT, INDONESIA, AS A POTENTIAL THREAD FOR THE ELIMINATION OF LYMPHATIC FILARIASIS IN HUMANS

Taniawati Supali[1], I Made Suhermanta[2], Peter U. Fischer[3]

[1]University of Indonesia, Jakarta, Indonesia, [2]District Health Office, Belitung, Indonesia, [3]Washington University School of Medicine, St. Louis, MO, United States

11 a.m. 5767

SPATIAL ANALYSIS OF THE RELATIONSHIP OF ONCHOCERCA VOLVULUS EXPOSURE BETWEEN HUMANS AND BLACK FLIES IN ETHIOPIA

Caitlin Duffy[1], Emily Griswold[2], Fikresilasie Samuel[3], Fikre Seife[4], Sindew Mekasha[5], Zerihun Tadesse[3], Frank O. Richards[2], Gregory S. Noland[2], Jenna E. Coalson[2]

[1]Emory University, Atlanta, GA, United States, [2]The Carter Center, Atlanta, GA, United States, [3]The Carter Center, Addis Ababa, Ethiopia, [4]Federal Ministry of Health, Addis Ababa, Ethiopia, [5]Ethiopia Public Health Institute, Addis Ababa, Ethiopia

11:15 a.m. 5768

CHALLENGES OF APPLICATION OF THE WHO ONCHOCERCIASIS TECHNICAL ADVISORY SUBGROUP-PROPOSED THRESHOLD FOR INITIATING MASS DRUG ADMINISTRATION AGAINST ONCHOCERCIASIS IN ETHIOPIA

Yewondwossen Bitew[1], Emily Griswold[2], Aderajew Mohammed[1], Kadu Meribo[3], Jenna E. Coalson[2], Tewodros Seid[1], Tekola Endeshaw[1], Desalegn Jemberie[1], Fikresilasie Samuel[1], Firdaweke Bekele[1], Tadese Asmare[1], Henok Birhanu[1], Adane Yayeh[1], Geremew Haileyesus[1], Anley Haile[1], Sindew Mekasha[4], Fikre Seife[3], Zerihun Tadesse[1], Gregory S. Noland[2], Frank O. Richards, Jr.[2]

[1]The Carter Center, Addis Ababa, Ethiopia, [2]The Carter Center, Atlanta, GA, United States, [3]Federal Ministry of Health, Addis Ababa, Ethiopia, [4]Ethipia Public Health Research Institute, Addis Ababa, Ethiopia

11:30 a.m. 5769

MONITORING IMPACT OF THREE ROUNDS OF MASS DRUG ADMINISTRATION IN EIGHT HIGH-RISK VILLAGES USING A THREE-DRUG REGIMEN ON LYMPHATIC FILARIASIS IN AMERICAN SAMOA

Tara A. Brant[1], Aifili Tufa[2], Fara Utu[2], Noelle Tavale[2], Lynette Suiaunoa-Scanlan[3], Ula Pele[3], Maopa Lewabeci[2], Benjamin Sili[2], Emily A. Dodd[1], Hong Zhou[1], Janet M. Camacho[4], Emi Chutaro[4], Kimberly Y. Won[1], Motusa T. Nua[2]

[1]US Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]American Samoa Department of Health, Pago Pago, American Samoa, [3]Pacific Island Health Officers' Association, Pago Pago, American Samoa, [4]Pacific Island Health Officers' Association, Honolulu, HI, United States

11:45 a.m. 5770

RATE OF ONCHOCERCA VOLVULUS MICROFILARIAE IN NODULE CARRIERS IN VILLAGES UNDER MASS DRUG ADMINISTRATION IN FUAMAH DISTRICT, LIBERIA

Cooper Sannah[1], Abakar Gankpala[2], Nicole Fetcho[3], Lincoln Gankpala[2], Aaron T. Momolu[2], Edward B. Guizie[1], Bindu Taweh[1], Evon Vesselee[4], Kasor Kollie[5], Gary J. Weil[3], Peter U. Fischer[6], Patrick N. Kpanyen[1]

[1]National Public Health Institute of Liberia, Monrovia, Liberia, [2]National Public Health Institute of Liberia, Charlesville, Liberia, [3]Washington University School of Medicine, Saint Louis, MO, United States, [4]Family Health, Ministry of Health, Monrovia, Liberia, [5]NTD team, Ministry of Health, Monrovia, Liberia, [6]Washington University School of Medicine, St. Louis, MO, United States

Scientific Session 66

Schistosomiasis I

Plaza Ballroom - Lobby Level (East Tower)

Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR

Oyime Poise Aula
QIMR Berghofer Medical Research Institute, Herston, Australia

Aniruddh Sarkar
Georgia Institute of Technology, Atlanta, GA, United States

10:15 a.m. 5771

WHOLE-GENOME SCAN OF AFRICAN SNAIL VECTORS IDENTIFIES GENES ASSOCIATED WITH RESISTANCE TO INFECTION BY SCHISTOSOMES

Jacob A. Tennessen[1], Tom Pennance[2], Johannie Spaan[2], Tammie McQuistan[2], George Ogara[3], Fredrick Rawago[3], Martin Mutuku[3], Gerald M. Mkoji[3], Eric S. Loker[4], Maurice Odiere[3], Michelle L. Steinauer[2]

[1]Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]College of Osteopathic Medicine of the Pacific – Northwest, Western University of Health Sciences, Lebanon, OR, United States, [3]Center for Biotechnology Research and Development, Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, [4]Department of Biology, Center for Evolutionary and Theoretical Immunology, Parasite Division Museum of Southwestern Biology, University of New Mexico, Albuquerque, NM, United States

10:30 a.m. 5772

GENOMIC EPIDEMIOLOGY OF THE CARCINOGENIC LIVER FLUKE OPISTHORCHIS VIVERRINI

Thomas Crellen[1], Opal Pitaksakulrat[2], Arporn Wangwiwatsin[2], Peter Odermatt[3], Somphou Sayasone[4], Poppy H.L. Lamberton[1], Matthew Berriman[1], T. D. Hollingsworth[5], Paiboon Sithithaworn[2]

[1]University of Glasgow, Glasgow, United Kingdom, [2]Khon Kaen University, Khon Kaen, Thailand, [3]Swiss TPH, Basel, Switzerland, [4]Lao TPHI, Vientiane, Lao People's Democratic Republic, [5]University of Oxford, Oxford, United Kingdom

10:45 a.m. 5773

TEST-TREAT-TRACK-TEST-TREAT (5T) APPROACH FOR BREAKING SCHISTOSOMIASIS TRANSMISSION

Lydia Trippler[1], Lyndsay Taylor[1], Mohammed N. Ali[2], Jan Hattendorf[1], Saleh Juma[3], Fatma Kabole[4], Said M. Ali[2], Stefanie Knopp[1]

[1]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [2]Public Health Laboratory - Ivo de Carneri, Wawi, Chake Chake, Pemba, United Republic of Tanzania, [3]Neglected Diseases Programme, Zanzibar Ministry of Health, Mkoroshoni, Pemba, United Republic of Tanzania, [4]Neglected Diseases Program, Zanzibar Ministry of Health, Lumumba, Unguja, United Republic of Tanzania

11 a.m. 5774

CHARACTERIZATION AND PROCESS DEVELOPMENT OF SERINE PROTEASE INHIBITOR: A NEXT GENERATION TRANSMISSION-BLOCKING VETERINARY MRNA VACCINE FOR ASIATIC SCHISTOSOMIASIS

Adebayo J. Molehin[1], Brooke Hall[1], Christine Lee[1], Sean A. Gray[2], Darrick Carter[2]

[1]Midwestern University, Glendale, AZ, United States, [2]PAI Life Sciences Inc, Seattle, WA, United States

11:15 a.m. 5775

SCHISTOSOMA JAPONICUM CHALLENGE INFECTION MODEL IN CARABAOS (PHILIPPINE WATER BUFFALO) FOR THE PLACEBO-CONTROLLED TRIAL OF THE SJ97 AND SJ68 VACCINE CANDIDATES

Mario L. Jiz[1], Daria L. Manalo[1], John Ezra David dela Cruz[1], Joseph Valencia[1], Sarah Li[2], Jonathan D. Kurtis[3], Hannah W. Wu[3]

[1]Research Institute for Tropical Medicine, Muntinlupa City, Philippines, [2]Biomedical Research Institute, Rockville, MD, United States, [3]Warren Alpert Medical School at Brown University, Providence, RI, United States

11:30 a.m. 5776

TWO KEY ACTINOBACTERIA GENERA BIFIDOBACTERIUM AND COLLINSELLA IN THE HUMAN GUT MICROBIOTA ARE DIFFERENTIALLY ASSOCIATED WITH SCHISTOSOMA MANSONI INFECTION BURDEN

Francis Ankomah Appiah-Twum[1], Jewelna Akorli[1], Lydia Okyere[2], Hilda Darko[1], Michael Wilson[1]

[1]Noguchi Memorial Institute For Medical Research, Legon, Accra, Ghana, [2]University of Illinois Urbana-Champaign, Chicago, IL, United States

11:45 a.m. 5777

PREVALENCE AND DISTRIBUTION OF FEMALE GENITAL SCHISTOSOMIASIS (FGS) ACROSS THREE ENDEMIC COUNTRIES, TIMELINE, AND AGE GROUPS

Navneet Kaur, **Nilanjan Lodh**

Marquette University, Milwaukee, WI, United States

Symposium 67

Chagas Disease: Best Practices for Clinical Care

Crystal Ballroom A - Lobby Level (West Tower)

Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Chagas disease remains underdiagnosed, particularly in non-endemic countries, and even in countries with high endemicity it is undertreated. Of the estimated 6 million individuals living with Chagas disease, less than 1% have received antiparasitic therapy. This symposium will highlight the best practices for diagnosis and treatment for the typical presentations of Chagas disease, including congenital, pediatric, adult indeterminate chronic phase, and reactivation of Chagas disease in the immunosuppressed host. Cardiac manifestations of Chagas disease will be discussed by a cardiologist, Dr. Rachel Marcus. The symposium will address the clinical aspects of Chagas Disease.

CHAIR

David Hamer

Center for Emerging Infectious Disease Research and Policy, Boston University School of Public Health, Boston, MA, United States

Christina Coyle

Albert Einstein College of Medicine, Bronx, NY, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
CONGENITAL AND PEDIATRIC CHAGAS DISEASE: SCREENING, MANIFESTATIONS, AND TREATMENT

Jaime Altcheh

Hospital de Niños R. Gutierrez, Buenos Aires, Argentina

10:45 a.m.
REACTIVATION OF CHAGAS DISEASE IN THE IMMUNOSUPPRESSED PATIENT

Maria Aparecida Shikanai-Yasuda

Faculdade de Medicina, University of Sao Paulo, Sao Paulo, Brazil

11:05 a.m.
TO TREAT OR NOT TO TREAT IN CHAGAS DISEASE, THAT IS THE QUESTION!
Christina Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

11:25 a.m.
CARDIAC MANIFESTATIONS OF CHAGAS DISEASE: THE GREAT IMITATOR
Rachel Marcus
LASOCHA, Washington, DC, United States

11:45 a.m.
MODERATOR, PANEL DISCUSSION
David H. Hamer
Center for Emerging Infectious Disease Research and Policy, Boston University School of Public Health, Boston, MA, United States

Meet the Professors Session 68
Meet the Professors Session B - Dangerous Zebras: Will You Be Ready When A Special Pathogen Comes To Town?

Crystal Ballroom B - Lobby Level (West Tower)
Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Meet the Professors sessions are valuable learning experiences for trainees and practicing clinicians to hear about clinical reasoning from leaders in the field. While the majority of cases of traveler's diarrhea self-resolves, some patients continue to have persistent symptoms. In this session, we will discuss the diagnosis and management of persistent intestinal symptoms associated with travel to, or residence in, a low- and middle-income country.

CHAIR
Daniel Leung
University of Utah, Salt Lake City, UT, United States

10:15 a.m.
PRESENTATION #1
Susan McLellan
University of Texas Medical Branch, Galveston, TX, United States

10:45 a.m.
PRESENTATION #2
Henry Wu
The Emory Clinic, Emory University, Atlanta, GA, United States

Scientific Session 69

Viruses - Virus Vaccine Clinical Trials and Immunity

Regency Ballroom A - Ballroom Level (West Tower)
Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

This session does not carry CME credit.

CHAIR
Edwin J. Asturias
University of Colorado, Aurora, CO, United States

Alix Miauton
Tropical, travel and vaccination clinic, Center for primary care and public health (Unisanté), Lausanne, Switzerland

10:15 a.m. **5778**

EFFICACY AND SAFETY OF BUTANTAN-DV LIVE-ATTENUATED TETRAVALENT DENGUE VACCINE FROM A PHASE 3 CLINICAL TRIAL IN CHILDREN, ADOLESCENTS, AND ADULTS

Mauricio L. Nogueira[1], Monica A.T. Cintra[2], José A. Moreira[2], Elizabeth G. Patiño[2], Patricia Emilia Braga[2], Patricia S. Carneiro[2], Lucas B. Alves[2], Juliana C.V. Tenório[2], Vanessa Infante[2], Alejandra Esteves-Jaramillo[3], Tulin Shekar[3], Jung-Jin Lee[3], Julieta Macey[3], Sabrina Gozlan Kelner[3], Beth-Ann G. Coller[3], Fernanda Castro Boulos[2], Esper G. Kallás[4]
[1]Faculdade de Medicina de São José do Rio Preto (FAMERP), São José do Rio Preto, Brazil, [2]Instituto Butantan, Sao Paulo, Brazil, [3]Merck & Co., Inc., Rahway, NJ, United States, [4]Instituto Butantan/Hospital das Clinicas da Faculdade de Medicina da USP-SP, Sao Paulo, Brazil

10:30 a.m. **5779**

A PHASE 1 OPEN LABEL TRIAL ASSESSMENT OF A DENGUE HUMAN INFECTION MODEL USING A DENGUE VIRUS SEROTYPE 4 LIVE VIRUS CHALLENGE

Joel V. Chua[1], Angie Price[1], Salma Sharaf[1], Youngchae J. Yoo[1], Hernando Gutierrez-Barbosa[1], Kathleen A. Strauss[2], Sudhaunshu Joshi[2], Rafael A. De La Barrera[3], Heather L. Friberg[4], Michael A. Koren[4], Robert Edelman[2], Kirsten E. Lyke[2]
[1]Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD, United States, [2]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Pilot Bioproduction Facility, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [4]Viral Diseases Branch, Walter Reed Army Institute of Research, Silver Spring, MD, United States

10:45 a.m. **5780**

SAFETY AND IMMUNOGENICITY OF A SYNTHETIC NANOPARTICLE-BASED, T CELL PRIMING PEPTIDE VACCINE AGAINST DENGUE IN HEALTHY ADULTS IN SWITZERLAND: A DOUBLE-BLIND, RANDOMIZED, VEHICLE-CONTROLLED, PHASE 1 STUDY

Alix Miauton[1], Régine Audran[2], Juliette Besson[1], Hélène Maby-El Hajjami[3], Maxime Karlen[1], Loane Warpelin-Decrausaz[4], Loredana Sene[3], Sylvain Schaufelberger[5], Vincent Faivre[5], Mohamed Faouzi[6], Mary-Anne Hartley[1], François Spertini[2], Blaise Genton[1]
[1]Tropical, travel and vaccination clinic, Center for primary care and public health (Unisanté), Lausanne, Switzerland, [2]Division of Immunology and Allergy, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland, [3]Clinical Trial Unit, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland, [4]Research support unit, Center for primary care and public health (Unisanté), Lausanne, Switzerland, [5]Information systems and digital transformation, Center for primary care and public health (Unisanté), Lausanne, Switzerland, [6]Biostatistics unit, Center for primary care and public health (Unisanté), Lausanne, Switzerland

11 a.m. **5781**

CHIKUNGUNYA VACCINE VLA1553 INDUCES CROSS-NEUTRALIZATION AGAINST DIFFERENT CHIKV GENOTYPES

Karin Kosulin[1], Trevor L. Brasel[2], Jeanon Smith[2], Maricela Torres[2], Annegret Bitzer[1], Katrin Dubischar[1], Vera Bürger[1], Scott C. Weaver[2], David WC Beasley[2], Romana Hochreiter[1]
[1]Valneva Austria GmbH, Vienna, Austria, [2]University of Texas Medical Branch, Galveston, TX, United States

11:15 a.m. 5782

IMMUNOGENICITY OF AN EXTENDED DOSE INTERVAL FOR THE AD26.ZEBOV, MVA-BN-FILO PROPHYLACTIC EBOLA VIRUS VACCINE REGIMEN IN ADULTS AND CHILDREN IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Edward M. Choi[1], Hugo Kavunga-Membo[2], Kambale Kasonia[1], Daniel Mukadi-Bamuleka[2], Soumah Aboubacar[3], Zephyrin Mossoko[2], Tansy Edwards[1], Darius Tetsa-Tata[1], Grace Mambula[3], Daniela Manno[1], Chelsea McLean[4], Babajide Keshinro[4], Auguste Gaddah[5], Cynthia Robinson[4], Kerstin Luhn[4], Nathalie Imbault[6], Rebecca Grais[3], Daniel G. Bausch[1], Deborah Watson-Jones[1], Jean-Jacques Muyembe[2]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, [3]Epicentre, Paris, France, [4]Janssen Vaccines and Prevention B.V., Leiden, Netherlands, [5]Janssen Research & Development, Beerse, Belgium, [6]Coalition for Epidemic Preparedness Innovations, Oslo, Norway

11:30 a.m. 5783

DETERMINANTS AND DURABILITY OF ANTIBODY RESPONSE TO RVSVΔG-ZEBOV-GP AND AD26.ZEBOV,MVA-BN-FILO EBOLA VIRUS DISEASE VACCINES: A MODELLING STUDY FROM THE PREVAC RANDOMIZED TRIAL

Simon Valayer[1], Marie Alexandre[2], Mélanie Prague[2], Abdoul Habib Beavogui[3], Seydou Doumbia[4], Mark Kieh[5], Brian Greenwood[6], Bailah Leigh[7], Marie Poupelin[2], Christine Schwimmer[8], Samba O. Sow[9], Irina Maljkovic Berry[10], Jens H. Kuhn[10], Daniela Fusco[11], Natasha Dubois Cauwelaert[11], Deborah Watson-Jones[6], Rodolphe Thiébaut[2], Yves Lévy[12], Yazdan Yazdanpanah[11], Laura Richert[2], **Edouard Lhomme**[2], PREVAC Study Team[13]
[1]IAME, Université Sorbonne Paris Nord, Université Sorbonne Paris Cité, and Inserm, Paris, France, [2]Bordeaux Population Health Research Centre, Université de Bordeaux, Inserm, and INRIA, Bordeaux, France, [3]Centre National de Formation et de Recherche en Santé Rurale (CNFRSR) de Mafèrinyah, Mafèrinyah, Guinea, [4]University Clinical Research Center, University of Sciences, Technique and Technology of Bamako, Bamako, Mali, [5]Partnership for Research on Ebola Virus in Liberia (PREVAIL), Monrovia, Liberia, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]College of Medicine and Allied Health Sciences (COMAHS), Freetown, Sierra Leone, [8]EUropean CLInical Trials Platform & Development (EUCLID), Université de Bordeaux, Centre Hospitalier Universitaire Bordeaux, and Inserm, Bordeaux, France, [9]Centre pour le Développement des Vaccins, Ministère de la Santé et du Développement Social du Mali, Bamako, Mali, [10]Integrated Research Facility at Fort Detrick, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Frederick, MD, United States, [11]French Agency for Research on AIDS and Viral Hepatitis (ANRS), Emerging Infectious Diseases, Paris, France, [12]Vaccine Research Institute, Université Paris-Est Créteil, Créteil, France

11:45 a.m. 5784

HIGH DIMENSIONAL IMMUNOPHENOTYPING OF ACUTE EBOLA VIRUS INFECTED NONHUMAN PRIMATES

Andrew Platt[1], Sydney R. Stein[1], Scott M. Anthony[2], Bobbi Barr[2], Jeffrey R. Strich[3], Heather Teague[3], Michael Holbrook[2], Daniel S. Chertow[1]
[1]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [2]National Institute of Allergy and Infectious Diseases, Fredrick, MD, United States, [3]National Heart, Lung, and Blood Institute, Bethesda, MD, United States

Symposium 70

Holistic Approaches: Integrating the Complexity of Natural Systems into Public Health Research and Decision-Making

Regency Ballroom B - Ballroom Level (West Tower)
Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

Healthy natural ecosystems are the foundation for thriving flora, fauna, and human societies. This interconnectedness between human societies and nature underpins many of the global issues that have been explored for decades in tropical medicine. At the root, our imbalanced relationship with nature has led to the emergence and persistence of environmental disruptions that impair human health, as well as the wellbeing of plants, animals, and our shared ecosystems. Climate change, pollution, resource exploitation, and other actions that alter the health of natural environments increase the risks for wildfires, infectious diseases emergence and spread, noncommunicable diseases, and many other health issues. A number of approaches have contributed toward capturing this interconnectedness between human health and nature (e.g., One Health, Planetary Health, among others), but the challenge remains in understanding and integrating the full complexity of natural systems into public health research and decision-making, without centering or elevating the needs of any specific stakeholder above that of others. Public health decisions and policy actions to address these issues must be based on actionable research outcomes that consider nature and human health together in a holistic way. New opportunities and progress can be identified if the well-being of nature and humans are pursued as an interconnected system. Attendees of this symposium will gain appreciation of the full landscape of the interaction between nature and public health, understand possible pathways of disease emergence, discuss opportunities beyond traditional reductionist scientific approaches that can address research gaps to inform decision-making, and reflect on ways that these approaches can be adapted for local settings around the globe where they work.

CHAIR
Albert I. Ko
Yale University School of Public Health, New Haven, CT, United States

10:15 a.m.
INTRODUCTION

10:20 a.m.
INTERSECTION OF ECOSYSTEM HEALTH AND HUMAN HEALTH
Kathleen Rest
Boston University Institute for Global Sustainability, Boston, MA, United States

10:40 a.m.
ENVIRONMENTAL DRIVERS OF INFECTIOUS DISEASES EMERGENCE
Jonathan Sleeman
USGS National Wildlife Health Center, Madison, WI, United States

11 a.m.
HOLISTIC HEALTH THROUGH TRADITIONAL KNOWLEDGE
Carlos Salinas
Healing Bridges, Washington, DC, United States

11:20 a.m.
HEALING THE PLANET AND IMPROVING HUMAN HEALTH AND WELL-BEING
Maria P. Kartika
Health in Harmony, Portland, OR, United States

Scientific Session 71

Arthropods/Entomology - Other

Regency Ballroom C - Ballroom Level (West Tower)
Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

CHAIR

Zinsou Come Koukpo
Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

Selma Jeronimo
Universidade Federal do Rio Grande do Norte, Natal, Brazil

10:15 a.m. 5785

CHARACTERIZING THE ROLE OF TICK SPECIES IN POWASSAN VIRUS FITNESS AND EVOLUTION

Rachel Elizabeth Lange[1], Alan P. Dupuis II[2], Alexander T. Ciota[2]
[1]University at Albany School of Public Health and Wadsworth Center, Albany, NY, United States, [2]Arbovirus Laboratory, Wadsworth Center NYSDOH, Slingerlands, NY, United States

10:30 a.m. 5786

ARE THE BITES OF NON-INFECTED SAND FLIES IMPORTANT FOR THE MAINTENANCE OF CUTANEOUS LEISHMANIASIS ANIMAL RESERVOIRS?

Pedro Cecilio, Maria M. Disotuar, Tiago D. Serafim, Claudio Meneses, Jesus G. Valenzuela, Fabiano Oliveira
NIAID, NIH, Rockville, MD, United States

10:45 a.m. 5787

THE HUMAN SKIN MICROBIOTA CHANGES IN RESPONSE TO SCABIES INFESTATION, WITH AN INCREASE IN OPPORTUNISTIC PATHOGENS

Sara Taylor[1], Martha Zakrzewski[1], Charlotte Berniguad[2], Nuzhat Surve[3], Pallavi Surase[3], Deepani D. Fernando[1], Francoise Botterel[4], Troy Darben[5], Olivier Chosidow[4], Katja Fischer[1]
[1]QIMR Berghofer MRI, Brisbane, Australia, [2]Dermatology Department, Assistance Publique des Hôpitaux de Paris (AP-HP), Hôpital Henri Mondor, Université Paris-Est, Créteil, France, Paris, France, [3]King Edward Memorial Hospital Seth Gordhandas Sunderdas Medical College, Mumbai, India, [4]Dermatology Department, Assistance Publique des Hôpitaux de Paris (AP-HP), Hôpital Henri Mondor, Université Paris-Est, Créteil, Paris, France, [5]Robina Skin Specialist Centre, Robina, Australia

11 a.m. 5788

EVALUATION OF THE EFFECT OF LONG LASTING INSECTICIDE IMPREGNATED BED NETS ON PHLEBOTOMUSARGENTIPES EXPOSURE USING SALIVARY BIOMARKERS: AN EARLY ANALYSIS AFTER 6 MONTHS

Sachee Bhanu Piyasiri[1], Sanath Senanayake[1], Nilakshi Samaranayake[1], Eva Iniguez[2], Shaden Kamhawi[2], Nadira Karunaweera[1]
[1]Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, [2]National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

11:15 a.m. 5789

EXPANDING TOOLBOX FOR ODOR-BASED TSETSE FLY CONTROL IN EAST AFRICA

Paul O. Mireji[1], Benson Wachira[2], Richard Echodu[3], Imna Malele[4], Daniel Gamba[5], Johnson Ouma[6], Michael Okal[6], Margaret Ng'ang'a[2], Eric Masika[2], Bernadatte Moraa[7], Ahmed Hassanali[7]
[1]Biotechnology Research Institute, Kenya Agricultural and Livestock Research Organization, Kikuyu, Kenya, [2]Kenyatta University, Nairobi, Kenya, [3]Gulu University, Gulu, Uganda, [4]Vector and Vector Borne Disease Institute (VVBD), Tanzania Veterinary Laboratory Agency (TVLA), Tanga, United Republic of Tanzania, [5]Kenya Tsetse and Trypanosomiasis Eradication Council (KENTTEC), Nairobi, Kenya, [6]Vector Health International (VHI)., Arusha, United Republic of Tanzania, [7]Kenyatta University, Kikuyu, Kenya

11:30 a.m. 5790

ONCHOCERCIASIS TRANSMISSION IN BENIN: BITING AND PAROUS RATE OF SIMULIUM DAMNOSUM COMPLEX ALONG THE OUEME, SOTA AND ZOU RIVERS

Pelagie M Boko-Collins[1], **Zinsou Come Koukpo**[2], Filémon Tokponnon[2], Razaki Osse[2], Germain Gil Padonou[2], Martin Akogbéto[2]
[1]Sightsavers, Cotonou, Benin, [2]Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

11:45 a.m. 5791

VERTICALLY INFECTED DOGS AS A RESERVOIR FOR LEISHMANIA INFANTUM IN AN ENDEMIC AREA FOR VISCERAL LEISHMANIASIS

Joanna Gardel Valverde[1], Angelis Falcão[1], Letícia Paula[1], Damila de Melo[1], José Flávio Coutinho[1], Jan Pierre Araújo[2], Ciro Fagundes[2], Paulo Ricardo Porfírio do Nascimento[1], Phillip Lawyer[3], Jacob Oleson[4], Mary E. Wilson[5], Christine A. Petersen[6], Selma B. Jerônimo[1]
[1]Federal Unviversity of Rio Grande do Norte, Natal, Brazil, [2]Center for Zoonotic Control, Health Secretariat of Natal, Natal, Brazil, [3]Monte L. Bean Life Science Museum, Brigham Young University,, Salt Lake City, UT, United States, [4]Department of Biostatistics, University of Iowa, Iowa City, IA, United States, [5]Departments of Internal Medicine and Microbiology & Immunology, University of Iowa and the VA Medical Center, Iowa City, IA, United States, [6]Department of Epidemiology, University of Iowa, Iowa City, IA, United States

Symposium 72

Evidence and Lessons Learned from the Malaria Vaccine Implementation Program (2019-2023)

Regency Ballroom D - Ballroom Level (West Tower)
Friday, October 20, 10:15 a.m. - Noon U.S. Central Time Zone

The Malaria Vaccine Implementation Program (MVIP), taking place in areas of Ghana, Kenya, and Malawi, will be completed at the end of this year (2023). Since the immunization programs in the three countries began vaccinations with RTS,S/AS01 (RTS,S) in 2019 as part of the MVIP, data have been collected on safety, impact, and feasibility of the four-dose regimen in routine use, and many lessons learned, including about how to increase and sustain uptake and coverage in the midst of a global pandemic. The evidence from 24 months of vaccine implementation informed the October 2021 World Health Organization (WHO) recommendation for the broader use of the vaccine to reduce child illness and deaths from malaria in regions with moderate to high *Plasmodium falciparum* transmission. This evidence also informed a decision by Gavi, the Vaccine Alliance, to finance a malaria vaccination program to support vaccine rollout. Demand for the vaccine is unprecedented, with at least 28 countries planning to

introduce the vaccine in the coming years, and more than a dozen countries having applied for support at the first opportunity in January 2023. In this symposium, the speakers will explain why a pilot implementation was recommended in 2015, present the full 46-month analysis of data from the MVIP evaluation, including data on vaccine impact, and share country perspectives on other important learnings from the pilot program, including pros and cons of the experience. The speakers will also share observations from the pilots that could help pave the pathway for future malaria vaccine introductions. Following a welcome and introduction by the symposium chair, John Bawa, the presentations will address the background to the malaria vaccine pilots and their design; present the full 46-month data analysis; provide a country perspective on the lessons learned from the pilots, including implementation challenges and opportunities; share additional scientific lessons learned (beyond safety, feasibility, and impact); and reflect on the pilot program's implications for future malaria vaccine introductions.

CHAIR

John Bawa
PATH, Accra, Ghana

Eliane Furrer
World Health Organization, Geneva, Switzerland

10:15 a.m.
INTRODUCTION

10:25 a.m.
WHY A PILOT? KEY BACKGROUND ON THE RTS,S MALARIA VACCINE PILOTS

Eliane Furrer
World Health Organization, Geneva, Switzerland

10:35 a.m.
MALARIA VACCINE PILOT EVALUATION: SAFETY, IMPACT, AND FEASIBILITY ANALYSIS OF RTS,S 46 MONTHS POST-INTRODUCTION

Kwaku Poku Asante
Kintampo Health Research Centre, Kintampo, Ghana

10:50 a.m.
COUNTRY PERSPECTIVE ON LESSONS LEARNED FROM THE RTS,S MALARIA VACCINE PILOTS

Kwame Amponsa-Achiano
Ghana Health Service, Accra, Ghana

11:05 a.m.
BEYOND SAFETY, FEASIBILITY, AND IMPACT: LESSONS LEARNED FROM THE RTS,S MALARIA VACCINE PILOTS

Mary J. Hamel
World Health Organization, Geneva, Switzerland

11:20 a.m.
KEY TAKEAWAYS FROM THE RTS,S MALARIA VACCINE PILOT EXPERIENCE AND IMPLICATIONS FOR FUTURE MALARIA VACCINE INTRODUCTIONS

John Bawa
PATH, Accra, Ghana

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)

Friday, October 20, Noon- 1:30 p.m. U.S. Central Time Zone

Poster Session 73

Poster Session B Presentations

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Friday, October 20, Noon - 1:45 p.m.

Poster Session B Directory

Global Health - Diversity, Inclusion, Decolonization and Human Rights: 5792- 5809
Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 5810-5825
Global Health – Other: 5826-5851
Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 5852-5878
Mosquitoes - Biology and Genetics of Insecticide Resistance: 5879-5892
Mosquitoes - Biology, Physiology and Immunity: 5893- 5905
Mosquitoes - Bionomics, Behavior and Surveillance: 5906- 5926
Mosquitoes - Epidemiology and Vector Control: 5927- 5956
Mosquitoes - Molecular Biology, Population Genetics and Genomics: 5957- 5972
Viruses - Emerging Viral Diseases: 5973- 5989
Viruses – Epidemiology: 5990- 6006
Viruses - Evolution and Genomic Epidemiology: 6007- 6016
Viruses - Field and ecological studies of viruses, including surveillance and spillover risk and emergence: 6017- 6030
Viruses – Immunology: 6031- 6045
Malaria - Antimalarial Resistance and Chemotherapy: 6046- 6067
Malaria - Diagnosis - Challenges and Innovations: 6068- 6086
Malaria - Drug Development and Clinical Trials: 6087- 6099
Malaria – Elimination: 6100- 6115
Malaria – Epidemiology: 6116- 6139
Malaria - Genetics, Genomics and Evolution: 6140- 6156
Malaria – Immunology: 6157- 6167
Malaria – Pathogenesis: 6168- 6178
Malaria – Prevention: 6179- 6204
Malaria – Surveillance and Data Utilization: 6205- 6224
Malaria - Transmission Biology: 6225- 6238
Malaria - Vaccines and Immunotherapeutics: 6239- 6250
Bacteriology - Enteric Infections: 6251- 6262
Bacteriology – Trachoma: 6263- 6266
Cestodes (including taeniasis and cysticercosis, echinococcosis/hydatid disease, and others): 6267- 6275
Helminths – Nematodes – Intestinal Nematodes: 6276- 6287
Clinical Tropical Medicine: 6288- 6304
HIV and Tropical Co-Infections: 6305- 6316
Integrated Control Measures for Neglected Tropical Diseases (NTDs): 6317- 6327
Kinetoplastida and Other Protozoa - Immunology (Including Leishmania and Trypanosomes): 6328- 6337
Kinetoplastida and Other Protozoa - Invasion, Cellular and Molecular Biology (Including Leishmania and Trypanosomes): 6338- 6344
Kinetoplastida and Other Protozoa - Treatment, Drug Delivery, Drug Repurposing and Drug Discovery (Including Leishmania and Trypanosomes): 6345- 6352
Kinetoplastida and Other Protozoa - Vaccines (Including Leishmania and Trypanosomes): 6353
One Health: The Interconnection between People, Animals, Plants and Their Shared Environment: 6354- 6365
Pneumonia, Respiratory Infections and Tuberculosis: 6366- 6381
Schistosomiasis and Other Trematodes – Epidemiology and Control: 6382- 6389
Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology: 6390- 6393
Water, Sanitation, Hygiene and Environmental Health: 6394- 6403

Global Health - Diversity, Inclusion, Decolonization and Human Rights

5792

ASSOCIATION OF HIV/AIDS WITH PSYCHIATRIC ILLNESS AMONG TRANSGENDER POPULATION IN A LOW HIV PREVALENCE COUNTRY

Nayem Akhter Abbassi[1], *Helal Uddin Ahmed*[1], *Mohammad Tariqul Alam*[1], *Mekhala Sarkar*[1], *Lubaba Shahrin*[2]
[1]*National Institute of Mental Health, Dhaka, Bangladesh,* [2]*icddr,b, Dhaka, Bangladesh*

5793

SYNTHESIS OF FINDINGS FROM THE LITERATURE AND A QUALITATIVE RESEARCH STUDY ON THE IMPACTS OF GENDER, DISABILITY, AND ETHNICITY IN NEGLECTED TROPICAL DISEASES PROGRAMMING

Jennifer K. Arney, *Maureen K. Headland, Andrea M. Bertone, Diana Stukel*
FHI 360, Washington, DC, United States

5794

NEEDS AND PREFERENCE FOR COMMUNITY HEALTH WORKER SERVICES IN CAMBODIA: A COMMUNITY SURVEY

Panarasri Khonputsa[1], *Long Heng Orng*[1], *Monnaphat Jongdeepaisal*[1], *Christopher Pell*[2], *Siv Sovannaroth*[3], *Massaya Sirimatayanant*[1], *Richard J. Maude*[1]
[1]*Mahidol Oxford Research Unit, Bangkok, Thailand,* [2]*Amsterdam Institute for Social Science Research, University of Amsterdam, Amsterdam, Netherlands,* [3]*National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia*

5795

ARMED CONFLICT REFUGEES' RESILIENCE: TRANSDISCIPLINARY STUDY ON A DIALOG FOR HEALTH PREVENTION IN THE EASTERN DEMOCRATIC REPUBLIC OF CONGO

Christian Ahadi Irenge[1], *Freddy Bikioli*[2], *Rodrigue Fikiri Bavurhe*[1], *Benedicte Sakina*[3], *Yves Coppieters*[4]
[1]*Official University of Bukavu, Bukavu, Democratic Republic of the Congo,* [2]*Antwerp University, Antwerp, Belgium,* [3]*Université Libre des Pays des Grands Lacs, Goma, Democratic Republic of the Congo,* [4]*School of Public Health, ULB, Bruxelles, Belgium*

5796

LIVING WITH HANSEN'S DISEASE IN MALAYSIA: A TRANSDISCIPLINARY RESEARCH APPROACH

Norana Abdul Rahman[1], *Vaikunthan Rajaratnam*[2], *Ruth M. H. Peters*[1], *Karen Morgan*[3], *Mohamed Rusli Abdullah*[4], *Marjolein B. M. Zweekhorst*[1]
[1]*Athena Institute, Vrije University, Amsterdam, Netherlands,* [2]*Khoo Teck Puat Hospital, Singapore, Singapore,* [3]*Perdana University-Royal College of Surgeons in Ireland School of Medicine, Kuala Lumpur, Malaysia,* [4]*Universiti Sains Malaysia, Kota Bharu, Malaysia*

5797

CHARACTERISTICS ASSOCIATED WITH SARS-COV-2 SEROPOSITIVITY IN CAMEROON

Ebako Ndip Takem[1], *Clement B. Ndongmo*[1], *Judith Shang*[1], *Adama N'Dir*[1], *Dubliss Nguafack*[2], *Gabriel Ekali*[2], *Emily K. Dokubo*[3]

[1]*Centers for Disease Control and Prevention, Yaounde, Cameroon,* [2]*International Center for AIDS Care and Treatment Program, Yaounde, Cameroon,* [3]*Centers for Disease Control and Prevention, Kingston, Jamaica*

5798

CONCEPTUALIZING AND UNDERSTANDING STIGMA ASSOCIATED WITH CL IN A RURAL COMMUNITY OF SRI LANKA

Hasara Nuwangi[1], *Lisa Dikomitis*[2], *Kosala G. Weerakoon*[3], *Suneth B. Agampodi*[4], *Thilini C. Agampodi*[1]

[1]*Department of Community Medicine, Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka,* [2]*Kent and Medway Medical School, University of Kent and Canterbury Christ Church University, Canterbury, United Kingdom,* [3]*Department of Parasitology, Faculty of Medicine and Allied Sciences Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka,* [4]*International Vaccine Institute, Seoul, Republic of Korea*

5799

INTEGRATING AND ACCESSING EQUITY IN GLOBAL HEALTH PROGRAM DESIGN

Vajra Allan[1], *Christelle Gogue*[2], *Krya Arnett*[1], *Brianna Musselman*[2], *Peder Digre*[1], *Bindiya Patel*[1]

[1]*PATH, Seattle, WA, United States,* [2]*PATH, Washington, DC, United States*

5800

INCREASING ADOPTION OF MALARIA PREVENTION AND CONTROL USING MULTIPRONGED SOCIAL BEHAVIOR CHANGE APPROACHES

Aaron Musimenta[1], *Felix Manano*[1], *Dorah Anita Talanta*[1], *Irene Ochola*[1], *Angela Kateemu*[1], *Amy Casella*[2], *Aliza Hasham*[3], *Benjamin Binagwa*[1], *Natalia Whitley*[2]

[1]*John Snow Inc, Kampala, Uganda,* [2]*John Snow Inc, Boston, VA, United States,* [3]*John Snow Inc, Dar es Salam, United Republic of Tanzania*

5801

EQUALITY IN AJTMH PUBLICATIONS FROM 1952 TO 2022: WHAT CAN WE LEARN TO MAKE GLOBAL HEALTH RESEARCH PUBLISHING MORE EQUITABLE? A BIBLIOMETRIC ANALYSIS

Nabila Farah Jeehan Youssouf

Botswana Harvard Health Partnership, Gaborone, Botswana

5802

ESTABLISHING A RELATIONSHIP WITH THE SURVIVORS OF TORTURE CLINIC AND THE UNIVERSITY OF LOUISVILLE SCHOOL OF MEDICINE; AN INNOVATIVE ALLIANCE TO MENTOR AND ASSIST REFUGEES

Zoha Mian

University of Louisville, Louisville, KY, United States

5803

GROW502: A POP-UP CLINIC TO TACKLE HEALTH DISPARITIES WITHIN THE HOUSELESS POPULATION

Zoha Mian

University of Louisville, Louisville, KY, United States

5804

NUTRITIONAL STATUS, DIETARY DIVERSITY AND FOOD INSECURITY AMONG WOMEN AND CHILDREN IN PERI-URBAN COMMUNITIES OF KARACHI, PAKISTAN

Nadia Ansari, Mashal Amin, Ayesha Khalid, Amna K. Haider, Junaid Mehmood, Rafey Ali, Mohammad I. Nisar, Fyezah Jehan, Zahra Hoodbhoy

The Aga Khan University, Karachi, Pakistan

5805

A SYSTEMATIC REVIEW & META-ANALYSIS: IMPACT OF THE COVID-19 PANDEMIC ONVIOLENCE AGAINST CHILDREN

Tomomi Nakaike

Nagasaki university, ichikikushikino, Japan

5806

A QUALITATIVE ASSESSMENT OF THE LANDSCAPE AND DYNAMICS OF CAPACITY STRENGTHENING INITIATIVES FOR MALARIA MODELING IN AFRICA

Letitia Onyango, Ghislaine Ouedraogo-Ametchie, Jaline Gerardin

Northwestern University, Chicago, IL, United States

5807

EPIDEMIOLOGICAL PROFILE OF ASYLUM SEEKERS AT THE US-MEXICO BORDER: ASSESSMENT OF DISEASE BURDEN IN A MATAMOROS MIGRANT SETTLEMENT CAMP FROM NOVEMBER 2019 TO MARCH 2021

Allison W. Cheung[1], Christopher W. Reynolds[1], Raymond Rosenbloom[2], Sarah Draugelis[3], Florian F. Schmitzberger[4]

[1]*University of Michigan Medical School, Ann Arbor, MI, United States,* [2]*Medical School for International Health, Ben Gurion University of the Negev, Beersheba, Israel,* [3]*Team fEMR, Cleveland, OH, United States,* [4]*Department of Emergency Medicine, University of Michigan, Ann Arbor, MI, United States*

5808

EXPLORING THE POTENTIAL OF POLICY IMPLEMENTATION STRATEGIES AS HEALTH JUSTICE-MAKING TOOLS: AN ILLUSTRATIVE CASE OF NEGLECTED TROPICAL DISEASES MASTERPLAN IN ZAMBIA

Patricia Maritim, Margarate Munakampe, Joseph M. Zulu

University of Zambia, Lusaka, Zambia

5809

NATIONAL GUIDELINES AND LEGISLATION CONCERNING THE MANAGEMENT OF ZIKA VIRUS INFECTION IN PREGNANT WOMEN DURING THE 2015-2018 EPIDEMIC IN LATIN AMERICA

Sarah Bethencourt[1], **Olivia Pluss**[2], Adriana Gomez[3], Rodrigo Cachay[4], Carmen Soria[5], Ivonne Morales[6], Kerstin Rosenberger[7], Martin Weber[8], Celia Alpuche Aranda[9], Patricia Brasil[10], Paola Mariela Saba Villarroel[11], Ernesto Marques[12], Eduardo Gotuzzo[4], María Consuelo Miranda Montoya[3], Adriana Tami[1], Thomas Jaenisch[2]

[1]*Universidad de Carabobo, Valencia, Bolivarian Republic of Venezuela,* [2]*Center for Global Health, Colorado School of Public Health, Aurora, CO, United States,* [3]*Universidad Industrial de Santander, Bucaramanga, Colombia,* [4]*Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru,* [5]*Universidad Católica Santiago de Guayaquil, Guayaquil, Ecuador,* [6]*Division of Infectious Disease and Tropical Medicine, Center for Infectious Diseases,Heidelberg University Hospital, Heidelberg, Germany,* [7]*Section Clinical Tropical Medicine, Heidelberg University Hospital, Heidelberg, Germany,* [8]*WHO Regional Office for Europe, Office for quality of care, Athens, Greece,* [9]*Centro de Investigación en Enfermedades Infecciosas, Instituto Nacional de Salud*

Pública, Cuernavaca, Morelos, Mexico, [10]Evandro Chagas National Institute of Infectious Diseases, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil, [11]Unité des Virus Émergents (UVE: Aix-Marseille Univ.-IRD 190-INSERM 1207-IHU Méditerranée Infection), Marseille, France, [12]Graduate School of Public Health, Department of Infectious Diseases and Microbiology, University of Pittsburgh, Pittsburgh, PA, United States

Global Health - Information/ Communication/Technologies Solutions in Global Health including Modeling

5810

IMPACT EVALUATION OF SOCIAL MEDIA CAMPAIGN TO IMPROVE ATTITUDES AND BEHAVIORS ON COVID-19 VACCINE IN AFRICA: DIFFERENCE-IN-DIFFERENCE ANALYSIS USING TANZANIA AS A CASE STUDY

Sooyoung Kim[1], Asad Lilani[2], Kate Campana[2], Yesim Tozan[1]
[1]New York University School of Global Public Health, New York, NY, United States, [2]The Access Challenge, New York, NY, United States

5811

USING MALARIA SURVEILLANCE AT ANTENATAL CARE TO DECODE LOCAL PATTERNS IN SEASONAL TRANSMISSION TRENDS — TANZANIA, 2014-2022

Joseph T. Hicks[1], Frank Chacky[2], Sijenunu Aaron[2], Khalifa Munisi[2], Samweli L. Nhiga[2], Julie R. Gutman[3], Patrick GT Walker[1]
[1]Imperial College London, London, United Kingdom, [2]National Malaria Control Programme, Ministry of Health, Dodoma, United Republic of Tanzania, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States

5812

INTEGRATION, EXPLORATION & REUSE OF CLINICAL & EPIDEMIOLOGICAL DATASETS: A CASE STUDY USING MALARIA DATA ON THE CLINEPIDB PLATFORM

Danica Helb[1], Sarah Kelly[2], **Nupur Kittur**[3], Moses Kumenya[4], David Roos[1], Steph Wever Schulman[1], Weilu Song[1], Sheena Shah Tomko[1]
[1]University of Pennsylvania, Philadelphia, PA, United States, [2]Imperial College, London, United Kingdom, [3]University of Georgia, Athens, GA, United States, [4]Infectious Diseases Research Collaboration, Kampala, Uganda

5813

IMPROVING EFFICIENCY IN DETECTING ANOMALIES IN HEALTH SUPPLY CHAIN DATA USING AN AUTOMATED CONSUMPTION ANOMALY DETECTION TOOL IN ZAMBIA

Darwin Chimenge[1], Stephen Chisha Lemba[2], Hassan Sinkala[3], Tawonga Manda[1]
[1]USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) project, Washington DC, DC, United States, [2]Lusaka District Health Office, Ministry of Health, Lusaka, Zambia, [3]USAID Global Health Supply Chain Program- Procurement and Supply Management (GHSC-PSM) project, Washington DC, DC, United States

5814

COMBINING ORTHOGONAL ANALYTICAL TECHNIQUES TO IDENTIFY SUBSTANDARD OR FALSIFIED FORMULATIONS OF PHARMACEUTICALS

Awosiji Olatunde Awotunde, Jin Ru i Cai, Jiaqi Lu, Christian Gabriel El Azar, Sarah Honegger, Ornella Joseph, Alyssa Wicks, Kathleen Hayes, Marya Lieberman
University of Notre Dame, Notre Dame, IN, United States

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USING THE DISTRIBUTION OF CLINICAL DATA FROM ROUTINE USE OF AN ELECTRONIC CLINICAL DECISION SUPPORT ALGORITHM TO IDENTIFY CLINICAL SKILL GAPS IN PRIMARY CARE IN RWANDA: A RETROSPECTIVE ANALYSIS

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ELECTRONIC DATA CAPTURE IMPLEMENTATION DOCUMENTING MASS DEWORMING CAMPAIGNS: PILOT ANALYSIS IN THE DOMINICAN REPUBLIC 2019-2021

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UNDERSTANDING THE 'CONTEXT' IN TROPICAL DISEASE CONTROL COMMUNICATION: A SRI LANKAN EXPERIENCE

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MATCHING DATA FOR THE STATE PARTIES SELF-ASSESSMENT ANNUAL REPORTING (SPAR) TOOL FROM 2010 TO 2021

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RECONSIDERING THE INFECTION RISK OF JAPANESE ENCEPHALITIS VIRUS IN AUSTRALIA

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USING MACHINE LEARNING TO PREDICT SURGICAL OUTCOMES OF PATIENTS WITH HYDROCEPHALUS POST INTERVENTION AT CURE CHILDREN'S HOSPITAL OF UGANDA

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A SYSTEMATIC REVIEW OF THE DATA, METHODS AND ENVIRONMENTAL COVARIATES USED TO MAP AEDES-BORNE ARBOVIRUS RISK

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ALTERNATIVE EPIDEMIC INDICATORS FOR COVID-19: A MODEL-BASED ASSESSMENT OF COVID-19 MORTALITY ASCERTAINMENT IN THREE CITIES IN LOW-INCOME COUNTRIES

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GLOBAL HEALTH INFRASTRUCTURE DEVELOPMENT IN LOW AND MIDDLE INCOME COUNTRIES, THROUGH MEDICAL EQUIPMENT REMANUFACTURE: POTENTIALS, PROSPECTS AND CHALLENGES IN NIGERIA

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AN EXPLAINABLE MACHINE LEARNING APPROACH IN THE PREDICTION OF MORTALITY AMONG PEDIATRIC PATIENTS HOSPITALIZED WITH ACUTE GASTROENTERITIS IN WESTERN KENYA

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TROPICAL TROUBLES: NEURASTHENIA AMONG MISSIONARY EX-PATS IN AFRICA, 1900-1945

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LOCAL PERCEPTIONS OF YELLOW FEVER OUTBREAKS IN UGANDA: A QUALITATIVE STUDY

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BLOOD PRESSURE VARIATIONS AND THEIR ASSOCIATION WITH SOCIAL DETERMINANTS AMONG MEN AND WOMEN IN BANGLADESH

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THE URGENT NEED OF MOLECULAR DIAGNOSTICS IN LOW RESOURCE SETTINGS. CASE STUDY: CURE CHILDREN'S HOSPITAL OF UGANDA

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COMMUNITY-LEVEL USE OF ANTIBIOTICS IN RURAL BURKINA FASO: A HOUSEHOLD-BASED SURVEY USING THE DRUG BAG METHOD

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IMPACT OF THE COVID-19 PANDEMIC ON THE SURVEILLANCE AND CONTROL OF NEGLECTED TROPICAL DISEASES (NTDS) IN BRAZIL

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UTILIZATION OF PANTOGRAPH AMONG NURSES AND MIDWIVES IN LABOUR WARD AT EDWARD FRANCIS SMALL TEACHING HOSPITAL

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A NOVEL VIRULENCE MODIFYING EXOTOXIN SECRETED BY PATHOGENIC LEPTOSPIRA MEDIATES DISEASE PATHOGENESIS AND IS A PAN LEPTOSPIROSIS VACCINE CANDIDATE

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MICROBIOME ANALYSIS OF PREGNANT WOMEN AND CHILDREN FROM AMANHI FECAL COHORT

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UNDERSTANDING HEALTH WORKER AND COMMUNITY ANTIBIOTICS PRESCRIPTION ADHERENCE PRACTICES FOR ACUTE FEBRILE ILLNESS: A NESTED QUALITATIVE STUDY IN THE SHAI-OSUDOKU DISTRICT OF GHANA, AND THE DEVELOPMENT OF A TRAINING AND COMMUNICATION INTERVENTION

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SEVERE ACUTE MALNUTRITION IN CHILDREN UNDER FIVES

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PARTICIPANT ACCEPTABILITY OF AN ANCILLARY CARE POLICY DURING AN EBOLA VACCINE TRIAL IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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EVALUATION OF THE PANBIO COVID-19 RAPID TEST DEVICE (ABBOTT) AT THE VIROLOGY LABORATORY OF THE ARISTIDE LE DANTEC UNIVERSITY HOSPITAL IN SENEGAL

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(ACMCIP Abstract)

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APPLICATION OF THE THREE DELAYS MODEL TO UNDERSTAND HOW THE INTERACTION OF COMMUNITY, FAMILY AND HEALTH SYSTEMS CONTRIBUTE TO CHILD MORTALITY IN CHAMPS-KENYA; MAY 2017 - JUNE 2022

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IMPACT OF MESSAGES ON MATERNAL CONDITION LEADING TO CHILD DEATH AND ON ANC SEEKING PRACTICES AMONG PREGNANT WOMEN IN RURAL BANGLADESH

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A SYSTEMATIC REVIEW OF PREVALENCE AND RISK FACTORS OF TRANSFUSION TRANSMISSIBLE INFECTIONS AMONG BLOOD DONORS, AND BLOOD SAFETY IMPROVEMENTS IN SOUTHERN AFRICA

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THE REMOTE EMERGING DISEASE INTELLIGENCE NETWORK (REDI-NET): PREPARING FOR ZOONOTIC SPILLOVER THREATS

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KNOWLEDGE OF COVID-19 SYMPTOMS, TRANSMISSION, AND PREVENTION: EVIDENCE FROM HEALTH AND DEMOGRAPHIC SURVEILLANCE IN SOUTHERN MOZAMBIQUE, SEPTEMBER 2021-JANUARY 2022

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DEVELOPMENT OF SINGLE DOMAIN ANTIBODY-BASED LUMINEX ASSAY FOR THE DETECTION OF SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS-2 IN CLINICAL SAMPLES

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COVID 19 SELF-TESTING: A PROMISING OPPORTUNITY FOR LOW AND MIDDLE INCOME COUNTRIES, YET A REALITY CHECK OF GLOBAL INEQUALITIES

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ENVIRONMENTAL HYGIENE FOR HOSPITAL INFECTION PREVENTION AND CONTROL MANAGEMENT IN BANGLADESH: EDUCATING HOSPITAL CLEANING STAFF REQUIRES PRIORITY

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ONE HEALTH BIOSECURITY: DEVELOPING RECOMMENDATIONS TO ADDRESS LEGISLATIVE GAPS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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BURIAL SITE SURVEILLANCE TO MONITOR EXCESS MORTALITY DURING THE COVID-19 PANDEMIC IN KARACHI, PAKISTAN

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AN ETHNOGRAPHIC APPROACH TO UNDERSTAND THE FEASIBILITY OF GRAVEYARD SITE SURVEILLANCE TO ASSESS EXCESS MORTALITY IN A RESOURCE CONSTRAINT SETTING

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THE RELATIONSHIP BETWEEN PRE-EXISTING COMORBIDITIES AND IN-HOSPITAL CARDIOVASCULAR EVENTS AMONG COVID-19 PATIENTS IN BANGLADESH: A PROSPECTIVE COHORT STUDY

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PATTERNS OF DATE PALM SAP HARVESTING AND TRADING PRACTICES AND RISK OF NIPAH VIRUS TRANSMISSION AT COMMUNITIES IN BANGLADESH

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UNDERSTANDING VACCINE HESITANCY IN BOENDE, WESTERN DR CONGO: A MIXED-METHODS STUDY

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PERCEPTIONS ON ACCEPTANCE AND BARRIERS RELATED TO MORTALITY SURVEILLANCE FOR DRY NASAL SWAB PROCEDURE RELATED TO COVID 19 IN PERI URBAN SETTINGS, PAKISTAN

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METAGENOMIC DETECTION OF PATHOGENIC BACTERIA IN TICKS FROM ISIOLO AND KWALE COUNTIES IN KENYA

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ENGAGING ANTHROPOLOGY IN NIPAH OUTBREAK: FACTS BEHIND THE HUMMING

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SURVEILLANCE OF ACUTE FEBRILE ILLNESS IN JORDAN DURING THE TIME OF PANDEMIC OF COVID-19

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IMPLEMENTING A "TEST AND TREAT" STRATEGY FOR COVID-19 IN BOLIVIA AND PARAGUAY: LESSONS AND CHALLENGES

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COVID 19 KNOWLEDGE, ATTITUDES, PRACTICES (KAP) & MENTAL HEALTH BEHAVIORS IN LIBERIA: FINDINGS, IMPLICATIONS & FUTURE DIRECTIONS

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COMMUNITY ENGAGEMENT IN EPIDEMIC MANAGEMENT: AN ANALYSIS OF THE EBOLA VIRUS DISEASE AND COVID19 RESPONSES IN BOENDE, WESTERN DR CONGO

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PERCEPTIONS OF PREVALENCE, IMPACT, AND MANAGEMENT OF POST-ACUTE SEQUELAE OF SARS-COV-2 INFECTION AMONG HEALTHCARE WORKERS IN KWENENG DISTRICT, BOTSWANA

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VERTICAL TRANSFER OF HUMORAL IMMUNITY AGAINST NIPAH VIRUS: A NOVEL EVIDENCE FROM BANGLADESH

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SURVEILLANCE OF OPERATIONALLY RELEVANT VIRAL HEMORRHAGIC FEVER AND RICKETTSIAL VECTOR BORNE INFECTIOUS DISEASE THREATS, INSECTICIDE RESISTANCE, AND ASSESSMENT OF VACCINE EFFICACY TO PREDICTED T CELL EPITOPES AND B CELL ANTIGENS IN AFRICOM

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THE REMOTE EMERGING DISEASE INTELLIGENCE-NETWORK: ENHANCING BIOSURVEILLANCE USING WATER AND SEDIMENT SENTINEL SAMPLES FROM BELIZE, CENTRAL AMERICA

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CAUSE SPECIFIC MORTALITY FROM VERBAL AUTOPSY FOR UNDER FIVES IN WESTERN KENYA 2019 TO 2022

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PUBLIC HEALTH DECISION-MAKING DURING COVID-19 PANDEMIC: A DETERMINANTS FRAMEWORK

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INVESTIGATION & MANAGEMENT OF A STREPTOCOCCUS PNEUMONIAE MENINGITIS EPIDEMIC IN DJADOUBANGO IVORY COAST

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UNDERSTANDING THE USE OFUTEROTONICS BY COMMUNITY HEALTHCARE PROVIDERS DURING HOME DELIVERY IN RURAL BANGLADESH

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ROUTINE CHILDHOOD IMMUNIZATION IN BURKINA FASO: IDENTIFYING AND REACHING ZERO-DOSE AND UNDER-VACCINATED CHILDREN IN A SECURITY CHALLENGED COUNTRY

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Mosquitoes - Biology and Genetics of Insecticide Resistance

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ASSESSING KNOCK DOWN RESISTANCE MUTATIONS IN THE DENGUE VECTOR (*AEDES AEGYPTI*) IN POSADAS, ARGENTINA

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USING TRANSCRIPTOMIC DATA TO IDENTIFY POTENTIAL MARKERS OF TRANSFLUTHRIN INSENSITIVITY IN*ANOPHELES GAMBIAE* SS

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IMPACT OF SUGAR DIET ON THE SENSITIVITY OF INSECTICIDES-RESISTANT MOSQUITOES

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EFFECTS OF AGRICULTURAL PESTICIDES ON THE SUSCEPTIBILITY AND FITNESS OF MALARIA VECTORS INRURALSOUTH-EASTERN TANZANIA

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SUSCEPTIBILITY OF *ANOPHELES GAMBIAE* SENSU LATO TO FOUR CLASSES OF INSECTICIDES AND THE ALLELIC FREQUENCIES OF GENES KDR L1014F AND ACE 1 G119S IN TWO VILLAGES OF THE CIRCLE OF KATI IN MALI

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ASSESSING INSECTICIDE RESISTANCE PROFILE OF *ANOPHELES GAMBIAE* S.L. FOR STRATEGIC VECTOR CONTROL DECISION MAKING IN GUINEA

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IDENTIFICATION OF INSECTICIDE RESISTANCE MARKERS IN *ANOPHELES* ARABIENSISAND *ANOPHELES GAMBIAE* FROM KENYA AND BENIN USING WEIGHTED GENE CORRELATION NETWORK ANALYSIS

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POPULATION GENOMICS OF THE INVASIVE MALARIA VECTOR *ANOPHELES* STEPHENSI IN ETHIOPIA

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CHARACTERIZATION OF A NEW LABORATORY COLONY OF *ANOPHELES* FUNESTUS MOSQUITOES ESTABLISHED IN IFAKARA, TANZANIA

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CO-OCCURRENCE OF MULTIPLEKDRMUTATIONS (F1534C, V1016I, V410L) IN*AEDES AEGYPTI*FROM COASTAL AREAS IN GHANA AND ASSESSMENT OF THE ROLE OF MOSQUITO COIL IN CAUSING PYRETHROID RESISTANCE

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TEMPORAL RESISTANCE ESCALATION AND N1575Y MARKED DETECTION IN AN. GAMBIAE S.L POPULATION IN ATATAM, AN EXPERIMENTAL HUT STATION SITE IN SOUTHERN GHANA

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INSECTICIDE SUSCEPTIBILITY OF *ANOPHELES* ALBIMANUS IN THE TWO MAIN ACTIVE MALARIA FOCI OF HONDURAS

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ENTOMOLOGICAL STUDY OF MALARIA TRANSMISSION PARAMETERS AS A PRELUDE TO A PHASE III CLINICAL TRIAL OF ATTRATIVE TOXIC SUGAR BAIT (ATSB) STATIONS IN THE KOULIKORO REGION, MALI

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PHENOTYPIC INSECTICIDE RESISTANCE STATUS AND MOLECULAR DETECTION OF RESISTANCE MUTATIONS IN *ANOPHELES GAMBIAE* SENSU LATO IN THE GAMBIA

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Mosquitoes - Biology, Physiology and Immunity

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OVEREXPRESSING IMMUNE SIGNALING PROTEIN VAGO RESTRICTS DENGUE VIRUS INFECTION IN *AEDES AEGYPTI* MOSQUITOES

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DEFINING THE ROLE OF JUVENILE HORMONE AND ITS RECEPTOR, METHOPRENE-TOLERANT, IN *ANOPHELES GAMBIAE* REPRODUCTION AND *PLASMODIUM* TRANSMISSION

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COMPOSITIONAL DIVERSITY IN THE EARLY-DEVELOPMENTAL MICROBIOME OF AEDES ALBOPICTUS LEADS TO HETEROGENOUS IMMUNE EXPRESSION OF ADULT MOSQUITOES

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ALTERNATING CURRENT ELECTROPENETROGRAPHY REVEALS IN SITU BEHAVIORAL CHANGES OF *AEDES AEGYPTI* BITES ASSOCIATED WITH DENGUE VIRUS INFECTION

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TEMPERATURE DEPENDENCE OF *ANOPHELES* IMMUNE RESPONSE KINETICS AND VECTOR COMPETENCE

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DISHEVELLED ACTIVITY DIFFERS IN *AEDES AEGYPTI* AND CULEX TARSALIS INFECTED WITH RIFT VALLEY FEVER VIRUS

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MAMMALIAN HEMOPEXIN REGULATES OXIDATIVE STATE IN *ANOPHELES* MOSQUITOS DURING *PLASMODIUM* INFECTION

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TNF-A SIGNALING MEDIATES MOSQUITO CELLULAR IMMUNITY TO PROMOTE *PLASMODIUM* KILLING

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EFFECT OF LOW RELATIVE HUMIDITY OVER MORTALITY AND VIRAL VECTOR COMPETENCE IN *AEDES AEGYPTI*

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PLAYING SMART: HOW MALE *AEDES AEGYPTI* MOSQUITOES USE JUVENILE HORMONE TO MAKE FEMALES FITTER FOR REPRODUCTION BY SUPPRESSING THEIR IMMUNITY AND PROMOTING GUT MICROBIOTA EXPANSION

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WHOLE BODY VOLATILOMICS TO COMBAT VECTOR-BORNE DISEASE

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A MICROSCALE PLATFORM FOR IMAGING NEURAL CIRCUITS IN THE AFRICAN MALARIA MOSQUITO

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WARBURG METABOLISM IS CRITICAL FOR *ANOPHELES* MOSQUITOES ANTI-*PLASMODIUM* IMMUNE DEFENSE

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(ACMCIP Abstract)

Mosquitoes - Bionomics, Behavior and Surveillance

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SAMPLING EFFICIENCY AND MOLECULAR SCREENING OF YELLOW FEVER VIRUS IN AEDES MOSQUITOES IN NIGER DELTA REGION OF NIGERIA

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SURVEILLANCE OFARTHROPOD-BORNE VIRUSES INBENIN, WEST AFRICA 2020-2021: DETECTION OFDENGUE VIRUS 3 IN*AEDES AEGYPTI* (DIPTERA: CULICIDAE)

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COMMON PREDATORS AND FACTORS INFLUENCING THEIR ABUNDANCES IN *ANOPHELES* FUNESTUS AQUATIC HABITATS IN RURAL SOUTHERN TANZANIA

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FINE-SCALE SPATIAL AND TEMPORAL DYNAMICS OF *ANOPHELES GAMBIAE* SWARMS IN SOUTH CENTRAL UGANDA

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ANOPHELES STEPHENSI: THE EMERGING VECTOR OF MALARIA IN THE REPUBLIC OF DJIBOUTI, HORN OF AFRICA

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VIRAL INFECTION PROFILE OF AEDES MOSQUITOES IN SOME FORESTED AREAS IN GHANA

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THE CHANGING ECOLOGY OF LARVAL MALARIA VECTORS IN THE CITY OF ACCRA, GHANA

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"FIGHTING AGAINST MALARIA IS EVERYONE'S CONCERN": A RANDOMISED CONTROL TRIAL ASSESSING THE ROLE OF INCENTIVES FOR ENCOURAGING LOCAL COMMUNITIES TO RECORDING AND UPLOAD MOSQUITO SOUND USING MOZZIWEAR APPLICATION

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MOLECULAR SURVEILLANCE LEADS TO THE FIRST DETECTION OF *ANOPHELES* STEPHENSI IN KENYA

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(ACMCIP Abstract)

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ARBOVIRUS SURVEILLANCE AND BLOOD-MEAL ANALYSIS OF MOSQUITOES IN JAMAICA

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PHENOTYPIC AND MOLECULAR INSECTICIDE RESISTANCE MONITORING OF *ANOPHELES* FUNESTUS MOSQUITOES TO GUIDE MALARIA CONTROL EFFORTS IN TANZANIA

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DEVELOPMENT, PILOTING, AND EVALUATION OF AN ENTOMOLOGICAL ADAPTIVE SAMPLING FRAMEWORK (EASF) IN MOZAMBIQUE AND GHANA

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INVESTIGATING THE SIBLING SPECIES DIVERSITY AND BREEDING BEHAVIOR OF THE MAJOR MALARIA VECTOR *ANOPHELES GAMBIAE* SENSU LATO IN SOUTHERN NIGERIA

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MALARIA TRANSMISSION RISK INDICES OF SECONDARY VECTORS FROM COASTAL & FOREST AXES OF NIGERIA

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AE. AEGYPTI AND OTHER MOSQUITO SPECIES COHABITATING IN THE CHEKWOPUTOI CAVE, UGANDA

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ROLE OF MALARIA VECTORS BLOOD-MEAL PREFERENCES ON MALARIA TRANSMISSION RISK IN MASENO AND KOMBEWA, WESTERN KENYA

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BITING PATTERN OF *ANOPHELES* ARABIENSIS, HUMAN BEHAVIOUR, AND SOCIO-ECONOMIC MALARIA RISK FACTORS IN AN IRRIGATED AGROECOSYSTEM IN WESTERN KENYA

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PREVALENCE OF MICROSPORIDIA MB AMONG *ANOPHELES* MOSQUITOES MAY BE ASSOCIATED WITH MICRO-ECOLOGICAL FACTORS OF BREEDING NICHES

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THE CHANGING LANDSCAPE OF DENGUE AND CHIKUNGUNYA VECTORS IN KENYA - ATHREAT TO PUBLIC HEALTH.

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THE DISTANCE-DENSITY RELATION TO INFORM LARVAL SOURCE MANAGEMENT: HOW FAR IN SUGAR IRRIGATION SCHEMES DO MALARIA MOSQUITOES BREED

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DETECTION OF INSECT-SPECIFIC VIRUSES IN MOSQUITOES COLLECTED IN URBAN AND FOREST FRAGMENT AREAS OF NORTHWEST OF SAO PAULO STATE, BRAZIL

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A METHODOLOGICAL FRAMEWORK TO UNDERSTAND THE DRIVERS OF DENGUE FOR DESIGNING OPERATIONALLY EFFICIENT AND SUSTAINABLE VECTOR CONTROL POLICIES IN ENDEMIC SETTINGS; A CASE STUDY FROM KALUTARA DISTRICT, SRI LANKA

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COMMUNITY PERCEPTIONS OF NUMBER OF MOSQUITOES AND MOSQUITO BITES AFTER USE OF WOLBACHIA SUPPRESSION AS A CONTROL METHOD FOR *AEDES AEGYPTI* MOSQUITOES IN PONCE, PUERTO RICO

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USING HIGH POWER ELECTRIC FIELDS TO REPEL MOSQUITOES

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ASSOCIATION OF WATER AVAILABILITY AND *AEDES AEGYPTI* PUPAE AND ADULTS IN AN URBAN/RURAL MOSAIC IN NICARAGUA

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IMPACT OF STANDARD AND LONG-LASTING IVERMECTIN FORMULATIONS IN CATTLE AND BUFFALO ON WILD *ANOPHELES* SURVIVAL ON SUMBA ISLAND, INDONESIA

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AUTOMATING MOSQUITO SIT

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SPATIAL ANALYSIS OF ENVIRONMENTAL DRIVERS AND MOSQUITO SPECIES ABUNDANCE ON MALARIA PREVALENCE IN KENYA FROM JANUARY 2019 TO JUNE 2021

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STUDY OF THE DIVERSITY OF MACRO INVERTEBRATES ASSOCIATED WITH THE LARVAL HABITATS OF *ANOPHELES GAMBIAE* COMPLEX IN TWO VILLAGES OF THE KATI DISTRICT MALI

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FEASIBILITY AND COMMUNITY ACCEPTANCE OF INSECTICIDE TREATED EAVE NETS AND INSECTICIDE TREATED WINDOW SCREENS IN TANZANIA

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COMBINING PYRETHROID-PIPERONYL BUTOXIDE (PBO) NETS WITH CLOTHIANIDIN-BASED INDOOR RESIDUAL SPRAYING IMPROVES CONTROL OF PYRETHROID-RESISTANT MALARIA VECTORS: AN EXPERIMENTAL HUT TRIAL IN SOUTHERN BENIN

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LONG-ACTING FORMULATION OF IVERMECTIN FOR EFFECTIVE MALARIA CONTROL: INSIGHTS FROM AN AGE-STRUCTURED MODELLING STUDY

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EXPLORATORY ANALYSIS OF THE EFFECTIVENESS OF INDOOR RESIDUAL SPRAYING WITH ACTELLIC 300CS AND FLUDORA FUSION TO REDUCE ENTOMOLOGICAL INDICATORS IN ALIBORI AND DONGA REGIONS, NORTHERN BENIN

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MOLECULAR TECHNIQUE FOR THE DETECTION OF WOLBACHIA (WANGA-MALI) WITHIN *ANOPHELES GAMBIAE* SENSU LATO IN MALI

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(ACMCIP Abstract)

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ENDECTOCIDES TO COMPLEMENT THE MALARIA VECTOR CONTROL TOOLKIT: EXPECTED AND UNEXPECTED SIDE-EFFECTS OF IVERMECTIN ON MALARIA VECTORS

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ANOPHELES STEPHENSI IN TURKANA - PRELIMINARY FINDINGS ON THE LARVAL SURVEILLANCE IN TURKANA COUNTY, KENYA

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IMPACT OF INDOOR RESIDUAL SPRAYING ON ENTOMOLOGICAL INDICES IN SAKASSOU, CENTRAL CÔTE D'IVOIRE

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IS THE UK PREPARED FOR A MOSQUITO-BORNE DISEASE EMERGENCE? A PROTOCOL FOR FIELD WORK

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DETERMINING IMPACT OF DENGUE VIRUS INFECTION IN PREGNANCY ON MATERNAL AND CHILD OUTCOMES

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YELLOW FEVER VACCINATION COVERAGE IN ARID AREAS OF KENYA AN ASSESSMENT FOLLOWING OUTBREAK, 2022

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ASSESSING ENTOMOLOGICAL IMPACT OF A LARVAL SOURCE MANAGEMENT PILOT USING AERIAL SPRAYING OF RICE FIELDS WITH DRONES IN TWO DISTRICTS OF MADAGASCAR

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DETECTION OF ANTIBODIES AGAINST SALIVARY PROTEINS OF AE. ALBOPICTUS AND CX. QUINQUEFASCIATUS IN NORTHERN CARDINALS IN LOUISIANA

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ENTOMOLOGICAL SURVEILLANCE STRENGTHENING IN INDIA: MEETING THE CHALLENGES

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EVALUATION OF SPATIAL REPELLENT PRODUCTS AGAINST MALARIA VECTOR SPECIES IN PAPUA NEW GUINEA

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NON-INFERIORITY EVALUATION OF PERMANET® DUAL TO INTERCEPTOR® G2 AND SUPERIORITY TO PERMANET® 3.0 AT THE 'DALA SUNA' EXPERIMENTAL HUTS IN SIAYA, KENYA

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IMPACT OF VOLATILE PYRETHROID SPATIAL REPELLANT ON THE ABUNDANCE OF OUTDOOR BITING ANOPHELINES IN A LOW MALARIA TRANSMISSION SETTING, SOUTHERN ZAMBIA

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EXPERIMENTAL HUT AND FIELD EVALUATIONS OF THE THERMACELL® BASED METOFLUTHRIN SPATIAL REPELLENT AGAINST PYRETHROID RESISTANT *ANOPHELES* FUNESTUS IN SIAYA, WESTERN KENYA

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APPLICATION OF VECTOR CONTROL OPTIMIZATION MODEL (VCOM) ON EAVE RIBBONS FOR MALARIA VECTOR CONTROL IN KILOMBERO VALLEY, TANZANIA

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COMMUNITY-BASED BIOLARVICIDING FOR MALARIA CONTROL IN TANGA REGION, TANZANIA

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PILOT STUDY OFBACILLUS THURINGIENSIS ISRAELENS IS IN THE CONTROL OF PERSISTENT DRY SEASON BREEDING MALARIA VECTORS IN MALI

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Mosquitoes - Molecular Biology, Population Genetics and Genomics

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CHARACTERIZATION OF THE PUTATIVE *ANOPHELES* FUNESTUS-CYP18A1 ORTHOLOG IN *ANOPHELES GAMBIAE*

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TRANSCRIPTOME-WIDE DISCOVERY AND QUANTIFICATION OF LNCRNA EXPRESSION IN VARIOUS CONTEXTS IN THE MALARIA MOSQUITO *ANOPHELES GAMBIAE* FROM RNA-SEQ DATASETS

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ENDOGENOUS NON-RETROVIRAL RNA VIRUS ELEMENTS IN *ANOPHELES* DARLINGI

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ANALYSIS OF THE GENETIC VARIATION OF THE FRUITLESS GENE WITHIN THE *ANOPHELES GAMBIAE* (DIPTERA: CULICIDAE) COMPLEX POPULATIONS IN AFRICA

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(ACMCIP Abstract)

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UNRAVELLING THE GENOMIC AND PHENOTYPIC DIVERGENCE WITHIN SUB-POPULATIONS OF TWO MAJOR MALARIA VECTORS: *ANOPHELES GAMBIAE* AND *ANOPHELES* COLUZZII

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IDENTIFICATION OF SEX-SPECIFIC PATTERN OF THE DOUBLESEX GENE IN THE MOSQUITO CULEX PIPIENS

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CHIP-SEQ STUDY IDENTIFIES TARGETS OF THE CLOCK GENE, PAR DOMAIN PROTEIN 1 (PDP1), THAT REGULATE DIAPAUSE IN CULEX PIPIENS

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ASSESSING THE FEASIBILITY OF TWO 'MULTIPLEXED' STRATEGIES IN *ANOPHELES* STEPHENSI MOSQUITOES

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GEOGRAPHICAL DISTRIBUTION AND GENETIC POPULATION STRUCTURE OF AEDES ALBOPICTUS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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GENETIC VARIATION AND TRANSCRIPTIONAL ENHANCER ACTIVITY IN THE MALARIA VECTOR, *ANOPHELES* COLUZZII

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IDENTIFICATION OF H3K27ME2 SITES THAT CAUSE VARIOUS DIAPAUSE PHENOTYPES IN THE MOSQUITO CULEX PIPIENS

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GENETIC AND NEURAL BASIS OF ATTRACTION OF GRAVID *AEDES AEGYPTI* TO AFRICAN BERMUDA HAY INFUSIONS

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LEVERAGING FIELD DNA SEQUENCING TO MEASURE SPATIOTEMPORAL VARIATION IN MOSQUITO COMMUNITY COMPOSITION AND FEEDING BEHAVIOR IN RURAL MADAGASCAR

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CHARACTERIZATION OF THE VIROME IN *AEDES AEGYPTI* VECTOR OF CONDORCANQUI PROVINCE, AMAZONAS REGION, THROUGH SHOTGUN METAGENOMIC SEQUENCING

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EXAMINING WEST NILE VIRUS INFECTION OFCULEX TARSALISMIDGUTS AT SINGLE-CELL RESOLUTION

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EVOLUTIONARY HISTORY OF SYLVATIC POPULATIONS OF AN. GAMBIAE AND IMPLICATIONS FOR MALARIA TRANSMISSION

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TEMPORAL AND COEVOLUTIONARY ANALYSES REVEAL THE EVENTS DRIVING THE EMERGENCE AND CIRCULATION OF HUMAN MAMASTROVIRUSES

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A COMPARATIVE ANALYSIS OF COMMERCIAL ANTI-DENGUE VIRUS IGG TESTS TO AID DENGUE IMMUNIZATION PROGRAMS

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CHALLENGES TOWARDS CLINICAL ALPHAVIRUS ENCEPHALITIS DIAGNOSTICS IN A DENGUE ENDEMIC COUNTRY

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POST-DISCHARGE DEATHS AMONG SEVERE ACUTE RESPIRATORY INFECTION PATIENTS WITH SARS-COV-2 IN BANGLADESH DURING 2020-2022

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RATS' FEEDING BEHAVIOR AT FRUIT TREES IN BANGLADESH AND IMPLICATIONS FOR PATHOGEN SPILLOVER

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PSYCHIATRIC SEQUELAE AND PSYCHOSOCIAL IMPACT OF LASSA FEVER IN SURVIVORS IN EDO STATE, NIGERIA

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SECONDARY ATTACK RATES AND DETERMINANTS OF SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS 2 (SARS-COV-2) HOUSEHOLD TRANSMISSION IN PAKISTAN: A CASE-ASCERTAINED PROSPECTIVE, LONGITUDINAL STUDY

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COMPARISON OF THE PERFORMANCE OF RNA EXTRACTION KITS USED IN THE DIAGNOSIS OF COVID19 AGAINST THE INHOUSE TRIZOL RNA EXTRACTION METHOD

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CHANGING PATTERN OF DENGUE SEROTYPE IN THE SINDH REGION OF PAKISTAN 2006-2022

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SEVERE MORBIDITY AND MORTALITY FROM RIFT VALLEY FEVER DISEASEBETWEEN NOVEMBER 2017 AND MARCH 2020 AMONG HUMANS IN UGANDA

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KNOWLEDGE, AND PERCEPTIONS OF COVID-19 INFECTION AMONG PEOPLE REPORTING FOR COVID-19 VACCINATION IN HEALTH FACILITIES IN MALAWI

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A SIMULATION-BASED METHOD TO INFORM SEROSURVEY DESIGN TO ESTIMATE DENGUE FORCE OF INFECTION USING EXISTING BLOOD SAMPLES

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LASSA FEVER OUTBREAK IN GHANAIAN COMMUNITIES, FEBRUARY 2023

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CLINICAL EVIDENCE ON DISEASE BURDEN OF THE MOSQUITO-BORNE CHIKUNGUNYA VIRUS (CHIKV) : A SYSTEMATIC LITERATURE REVIEW

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MONKEYPOX VIRUS OUTBREAK IN GHANA

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NEUTRALIZING ANTIBODY TITER AFTER COMPLETE SARS-COV-2 VACCINATION

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Viruses - Epidemiology

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LOW SEROPREVALENCE OF EBOLA VIRUS IN HEALTH CARE PROVIDERS IN AN ENDEMIC REGION (TSHUAPA PROVINCE) OF THE DEMOCRATIC REPUBLIC OF THE CONGO

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MOLECULAR CHARACTERIZATION OF SARS-COV-2 IN HEALTHCARE PERSONNEL WITH THIRD GENERATION SEQUENCING IN LIMA, PERU, 2021-2022

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ENTERIC VIRAL PATHOGENS AND CHILD GROWTH: INSIGHTS FROM SOUTH ASIA AND SUB-SAHARAN AFRICA

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PILOT SURVEILLANCE EVALUATION USING LEFTOVER MEASLES/RUBELLA NEGATIVE SURVEILLANCE SPECIMENS TO DETECT ARBOVIRUS INFECTIONS

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ESTIMATING THE INCIDENCE OF DENGUE IN INTERNATIONAL TRAVELERS FROM NON-ENDEMIC COUNTRIES

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ARBOVIRUS DISEASE SURVEILLANCE AMONG FEBRILE PATIENTS IN KILIMANJARO, TANZANIA, 2016-2019

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ACCEPTANCE AND HESITANCY TOWARDS COVID-19 VACCINE AMONG HEALTHCARE WORKERS IN BUKAVU, EASTERN DEMOCRATIC REPUBLIC OF CONGO

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SOURCES OF INCONSISTENCIES BETWEEN DENGUE INFECTION INTENSITIES ESTIMATED FROM SEROLOGICAL AND PASSIVE CASE SURVEILLANCE STUDIES

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CIRCULATING NON-DENGUE FLAVIVIRUSES IMPACT DENGUE VIRUS DIAGNOSTIC TESTING AND DISEASE RISK IN CAMBODIA

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FORECASTING DENGUE INCIDENCE: REVIEW OF METHODOLOGY AND COVARIATES

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COMPARISON OF REPORTED PRIOR DENGUE INFECTION WITH LABORATORY-CONFIRMATION OF SEROSTATUS AMONG 9 TO 14-YEAR-OLD CHILDREN IN CEBU, PHILIPPINES

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DETECTION OF OTHER HUMAN CORONAVIRUSES (HCOVS) AND CROSS- REACTIVITY AGAINST SARS-COV-2 IN CLINICAL SAMPLES

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PREVENTION AND CONTROL OF VIRAL HEMORRHAGIC FEVER IN LEARNING INSTITUTIONS IN UGANDA

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A COHORT STUDY IN GHANA REVEALS HIGH SEROPREVALENCE OF MONKEYPOX IN GHANA

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SHIFTS IN THE SEASONALITY OF DENGUE ASSOCIATED WITH THE TRANSITION TO ENDEMICITY

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FACTORS ASSOCIATED WITH CHIKUNGUNYA INFECTION AMONG PREGNANT WOMEN IN GRENADA, WEST INDIES

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FILOVIRUS VIRUS GLYCOPROTEIN - EPITOPE MAPPING, PSEUDOTYPING, AND INFECTIVITY TARGETING

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Viruses - Evolution and Genomic Epidemiology

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TRANSMISSION DYNAMICS OF DENGUE VIRUS IN LARGE AND SMALL POPULATION CENTERS IN NORTHERN ECUADOR USING A PHYLOGENETIC ANALYSIS

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DETECTING AND MONITORING THE RE-EMERGENCE OF DENGUE VIRUSES IN PUERTO RICO WITH GENOMIC SURVEILLANCE

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LOCATION AND TIME ARE DRIVERS OF VIRAL DIVERGENCE DURING ACUTE PHASE ZIKA VIRUS INFECTION

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NEAR-COMPLETE GENOME SEQUENCES OF DENGUE VIRUS 3 ISOLATES ASSOCIATED WITH OUTBREAKS FROM DIFFERENT REGIONS OF KENYA IN 2011 AND 2019

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DEVELOPMENT AND CHARACTERIZATION OF BARCODED POWASSAN VIRUS TO ANALYZE BOTTLENECK EVENTS DURING TICK TRANSMISSION

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GENOMIC SURVEILLANCE OF SARS-COV-2 VARIANTS DURING DIFFERENT WAVES OF COVID-19 IN MALI

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SPATIOTEMPORAL DYNAMICS OF CIRCULATING DENV-1 IN LA VIRGINIA, RISARALDA BETWEEN 2019 AND 2021

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INTRODUCTION OF A NEW CLADE OF ECSA GENOTYPE DURING THE LARGEST OUTBREAK OF CHIKUNGUNYA VIRUS IN PARAGUAY

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PURIFYING SELECTION DECREASES THE POTENTIAL FOR BANGUI ORTHOBUNYAVIRUS OUTBREAKS IN HUMANS

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PROFILING OF DENGUE SEROTYPE -2 SPECIFIC MICRORNA EXPRESSION IN THE SERUM SAMPLES OF DENGUE PATIENTS IN SABAH, MALAYSIA

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Viruses - Field and ecological studies of viruses, including surveillance and spillover risk and emergence

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METAGENOMICS ANALYSES REVEALS PRESENCE OF THE MERIDA-LIKE VIRUS IN GEORGIA (COUNTRY)

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CO-INFECTION OF DENGUE AND CHIKUNGUNYA IN BENGALURU CITY, SOUTHERN INDIA - A MOLECULAR SURVEILLANCE APPROACH

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SEROLOGICAL EVIDENCE OF PRIOR EXPOSURE TO EMERGING PATHOGENS IN RURAL LIBERIA, WEST AFRICA

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MAYARO VIRUS EXPOSURE IN FREE_RANGING BATS OF ANIMAL_ HUMAN INTERFACE AREAS, MIDWEST BRAZIL

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EVIDENCE OF CORONAVIRUS TRANSMISSION AMONG PTEROPUS MEDIUS IN BANGLADESH, 2019-2021

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DETECTED ARBOVIRUSES IN EASTERN MEDITERRANEAN REGION AND SOUTH EAST ASIAN REGION MOSQUITO POPULATIONS: A SYSTEMATIC REVIEW

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FACTORS RESPONSIBLE FOR POST-DISCHARGE DEATH IN COVID PATIENTS

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ROLE OF TELEHEALTH AND COMMUNITY MOBILIZATION IN MANAGING COVID-19 WITHIN THE CONTEXT OF A DISTRICT HEALTH SYSTEM IN MALAWI

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DISTRIBUTION AND OUTCOMES OF ANIMAL BITES IN THE MBALE REGION OF EASTERN UGANDA

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MOSQUITO ID: NANOPORE SEQUENCING OUT OF A SUITCASE LAB AS AN EARLY WARNING SYSTEM FOR EMERGING INFECTIOUS DISEASES

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SIMIAN ARTERIVIRUSES: A ZOONOTIC THREAT?

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CASE AND WASTEWATER SURVEILLANCE TO MONITOR COVID-19 AND OTHER INFECTIOUS DISEASES IN ATLANTA K-12 SCHOOLS

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DETECTION OF HUMAN CORONAVIRUSES AMONG PATIENTS WITH RESPIRATORY TRACT INFECTIONS IN GHANA

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USE OF LIGHTWEIGHT GPS DATA LOGGERS TO TRACK HORSESHOE BAT MOVEMENT PATTERNS IN EASTERN UGANDA

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Viruses - Immunology

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IGG HYPORESPONSIVENESS AFTER DENGUE VIRUS INFECTION IN KENYAN CHILDREN

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CHIKUNGUNYA VIRUS SPECIFIC T CELLS PREDOMINANTLY RECOGNIZE VIRAL STRUCTURAL PROTEINS

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INVESTIGATING THE IMMUNE PROFILES ELICITED BY CLINICALLY APPARENT AND CLINICALLY INAPPARENT DENGUE VIRUS INFECTIONS

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MALARIA-EXPOSED UGANDANS EXHIBIT A DIFFERENTIAL SARS-COV-2-SPECIFIC T CELL RESPONSE

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17DD-BASED YELLOW FEVER INACTIVATED VACCINE IN ASSOCIATION WITH THE NS3 HELICASE DOMAIN INDUCES T LYMPHOCYTE RESPONSES AND SEROCONVERSION TO YELLOW FEVER VIRUS IN A MURINE MODEL

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ANTIBODY-DEPENDENT COMPLEMENT ACTIVATION AND DENV3 DISEASE SEVERITY

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STRUCTURE-GUIDED DENGUE VIRUS TYPE 2 SUBUNIT VACCINE DESIGN TO FOCUS ANTIBODY RESPONSE TO POTENT, NEUTRALIZING EPITOPES ON VIRAL ENVELOPE PROTEIN

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MOLECULAR ANALYSIS OF THE ANTIBODY REPERTOIRE ELICITED AFTER YELLOW FEVER VACCINATION

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CONSERVED MONOCYTE RESPONSES TO ACUTE RNA VIRUS INFECTION

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ANTIBODIES AGAINST THE SARS-COV-2 DELTA VARIANT SHOWED CROSS-REACTIVITY TO INFLUENZA VIRUSES

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ROLE OF THE PLACENTA SPECIFIC CHROMOSOME 19 MICRORNA CLUSTER DURING ZIKA INFECTION

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USE OF A STABILIZED CONFORMATIONAL DENGUE VIRUS SEROTYPE 2 ENVELOPE ANTIGEN TO ISOLATE MEMORY-DERIVED NEUTRALIZING MONOCLONAL ANTIBODIES FROM A CONVALESCENT PATIENT.

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TISSUE-SPECIFIC T-CELL RESPONSES AMONG 44 FATAL COVID-19 CASES

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SEROPREVALENCE OF SARSCOV2 ANTIBODIES IN THE GENERAL POPULATION OF BAMAKO, MALI

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IMPACT OF DENGUE VIRUS STRAIN AND MATURATION STATE ON DETECTION OF NEUTRALIZING ANTIBODIES INDUCED BY NATURAL INFECTION AND VACCINATION

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Malaria - Antimalarial Resistance and Chemotherapy

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MOLECULAR SURVEILLANCE OF SULFADOXINE-PYRIMETHAMINE AND AMODIAQUINE RESISTANCE MARKERS IN KARAMOJA REGION, AN AREA IMPLEMENTING SEASONAL MALARIA CHEMOPREVENTION IN NORTHEASTERN UGANDA

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MOLECULAR MARKERS ASSOCIATED WITH ANTIMALARIAL DRUG RESISTANCE AND DISTRIBUTION OF MSP1 AND MSP2 ALLELIC FAMILIES IN RURAL ENDEMIC SETTINGS, NORTHWESTERN BURKINA FASO

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MOLECULAR MARKERS OF ANTIMALARIAL RESISTANCE, AN EXTENSION OF THERAPEUTIC EFFICACY MONITORING IN BURKINA FASO, 2021

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ASSESSMENT OF *PLASMODIUM FALCIPARUM* CLONALITY AND DRUG RESISTANCE IN AN ARTEMETHER-LUMEFANTRINE DRUG EFFICACY TRIAL IN NORTHWEST ETHIOPIA

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6050

TEMPORAL GENOMIC ANALYSIS OF *PLASMODIUM FALCIPARUM* REVEALS INCREASED PREVALENCE OF PFAP2MU S160N AND PFMDR1 Y184F MUTATIONS ASSOCIATED WITH REDUCED PARASITE CLEARANCE OR SUSCEPTIBILITY TO LUMEFANTRINE IN CHOMA DISTRICT, SOUTHERN PROVINCE, ZAMBIA

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THE IMPACT OF SMC ON *PLASMODIUM FALCIPARUM* RESISTANCE TO SULFADOXINE PYRIMETHAMINE (SP) AND AMODIAQUINE (AQ) OVER A 2 YEAR PERIOD OF SMC IMPLEMENTATION IN NORTHERN MOZAMBIQUE

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ASSESSMENT OF QUANTITATIVE PCR FOR DETERMINATION OF DRUG RESPONSE OF *PLASMODIUM FALCIPARUM* IN THE ABSENCE OF DNA PURIFICATION

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COX UNIVARIATE AND MULTIVARIATE ANALYSIS OF THE DETERMINANTS OF PARASITE RECURRENCE BY DAY 28 AFTER REPETITIVE TREATMENT OF UNCOMPLICATED MALARIA WITH ARTEMETHER-LUMEFANTRINE DURING TWO YEARS IN MALI

Mamadou Modibo Tekete, Bakary Fofana, Sekou Toure, Souleymane Dama, Oumar Bila Traore, Nianwalou Dara, Bouran Sidibe, Abdoulaye Djimde
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6054

HEALTH SEEKING BEHAVIORS AND BELIEFS SURROUNDING MALARIA IN THREE EAST AND SOUTHERN AFRICAN NEW GEOGRAPHIES PILOTING SEASONAL MALARIA CHEMOPREVENTION: A SECONDARY QUALITATIVE ANALYSIS

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RARE *PLASMODIUM FALCIPARUM* CORONIN GENE MUTATIONS FOLLOWING ACT TREATMENT OF MALARIA IN SOUTH WESTERN NIGERIA

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CHANGES IN SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* TO LUMEFANTRINE IN EASTERN AND NORTHERN UGANDA OVER TIME

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EX VIVO SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* ISOLATES TO STANDARD ANTIMALARIALS IN BOBO-DIOULASSO, BURKINA FASO

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LACK OF CORRELATION BETWEEN *IN VITRO* POTENCY AND *IN VIVO* EFFICACY OF MADURAMICIN AGAINST *PLASMODIUM* LIVER STAGES

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MALARIA DRUG RESISTANCE MARKERS MOLECULAR SURVEILLANCE USING *ANOPHELES* MOSQUITOES IN BURKINA FASO

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PFCORONIN MUTATIONS CONFER ARTEMISININ RESISTANCE IN *PLASMODIUM FALCIPARUM* BY ALTERING ACTIN HOMEOSTASIS: A POTENTIAL NEW PLAYER IN THE ENDOCYTIC AND VESICULAR TRANSPORT PATHWAY

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KELCH 13 AND NON-KELCH 13 MEDIATED ARTEMISININ DRUG RESISTANCE

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SUSCEPTIBILITY OF*PLASMODIUM FALCIPARUM*ISOLATES TO DIHYDROARTEMISININ IN NORTHERN AND EASTERN UGANDA IN 2021 AND 2022

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DECREASED EX VIVO SUSCEPTIBILITY OF *PLASMODIUM VIVAX* TO CHLOROQUINE IN NORTHWEAST COLOMBIA

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THE CONTINUED EXPANSION OF ARTEMISININ PARTIAL RESISTANCE MUTATION KELCH13 561H AND EMERGENCE OF 675V IN RUKARA IN 2021

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COMPARISON OF STRENGTH OF SELECTION FOR *P. FALCIPARUM* ARTEMISININ RESISTANCE-ASSOCIATED MUTATIONS BETWEEN SOUTHEAST ASIA AND UGANDA

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INCREASED RATE OF ARTEMISININ-BASED COMBINATION TREATMENT FAILURE IN PATIENTS RETURNING FROM SUB-SAHARAN AFRICA WITH *P. FALCIPARUM* MALARIA; THE ROLE OF PFCORONIN GENE MUTATION

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DETECTION OF *PLASMODIUM FALCIPARUM* KELCH 13 GENE MUTATIONS IN CLINICAL SAMPLES FROM FOUR SITES ACROSS KENYA REVEALS INTENSE GENOMIC EVENTS THAT COULD PURIFY RESISTANCE

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Malaria - Diagnosis - Challenges and Innovations

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IDENTIFICATION AND QUANTIFICATION OF *PLASMODIUM* FRAGILE IN AN *IN VITRO* CULTURE SYSTEM AND NON-HUMAN PRIMATE MODEL

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LOW FREQUENCY OF HISTIDINE-RICH PROTEIN 2/3 (HRP2/3) AND FLANKING GENE DELETIONS CORRELATES WITH THE HIGH DIAGNOSTIC PERFORMANCE OF HRP2-BASED MALARIA RAPID DIAGNOSTIC TESTS IN CAMEROON

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PRESENCE OF PFHRP2/3 DELETIONS INCLUDING POLYCLONAL INFECTIONS IN AN INTENSE MALARIA TRANSMISSION AREA OF SIAYA COUNTY, WESTERN KENYA

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PREVALENCE OF PFHRP2 AND PFHRP3 DELETIONS, AND PFKELCH13 MUTATIONS ASSOCIATED WITH PARTIAL RESISTANCE TO ARTEMISININ DERIVATIVES IN SOMALILAND

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ONE-STEP MULTIPLEX DIGITAL PCR FOR THE DETECTION OF PFHRP2 AND PFHRP3 DELETIONS IN POLYCLONAL INFECTIONS

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CHANGES IN MALARIA TEST POSITIVITY RATE FOLLOWING SCALE UP OF LIFE-SAVING MALARIA CONTROL INTERVENTION IN EBONYI STATE, SOUTH EAST NIGERIA

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IMPROVING QUALITY OF MALARIA MICROSCOPY THROUGH ONSITE COACHING AND MENTORSHIP TO HEALTH FACILITIES IN TANZANIA

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EXTERNAL VALIDATION OF THE WORLD HEALTH ORGANIZATION INTEGRATED MANAGEMENT OF CHILDHOOD ILLNESS (IMCI) PROTOCOL FOR MALARIA TESTING IN LOW MALARIA RISK AREAS

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IMPROVING MALARIA DIAGNOSIS THROUGH QUALITY ASSURANCE IN RWANDA FY 2021-2022

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IMPLEMENTATION OF TWO-STEP MALARIA RDT DETECTIONPFHRP2/PLDH COMBINING WITH POINT-OF-CARE TESTS FOR BACTERIAL INFECTIONS IN THE MANAGEMENT OF FEBRILE DISEASES IN CHILDREN UNDER-5 YEARS IN BURKINA FASO

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SEROLOGICAL MARKERS PREDICT *PLASMODIUM VIVAX* RELAPSES IN A RETURNING INDONESIAN SOLDIER COHORT

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THRESHOLD LIMITS OF DETECTION AND QUANTIFICATION OF MALARIA PARASITES IN DRIED BLOOD SPOT: A COMBINED APPROACH OF MID-INFRARED SPECTROSCOPY AND MACHINE LEARNING

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LOW PREVALENCE OF *PLASMODIUM FALCIPARUM* HISTIDINE-RICH PROTEIN 2 AND 3 GENE DELETIONS—A MULTIREGIONAL STUDY IN CENTRAL AND WEST AFRICA

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HIGH PREVALENCE OF *PLASMODIUM FALCIPARUM* HRPII-DELETED VARIANTS ASSOCIATED WITH LOW RAPID DIAGNOSTIC EFFICACY 13 YEARS AFTER INTRODUCTION OF MALARIA RDTS IN EASTERN ZIMBABWE

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A DIGITAL MICROSCOPE FOR THE DIAGNOSIS OF *PLASMODIUM FALCIPARUM* PARASITES WITH HRP2 AND HRP3 DELETION AND *PLASMODIUM VIVAX*

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FITNESS COST OF PFHRP2/3 GENE DELETION & K13 R622I MUTATION IN NATURAL INFECTIONS IN ETHIOPIA: TRANSMISSION POTENTIAL OF PARASITES EVALUATED BY DIRECT MEMBRANE FEEDING ASSAYS

Ayalew Jejaw Zeleke[1], Migbaru K. Bezabih[2], Wakweya Chali[2], Lina Alemayehu[2], Melat Abdo[2], Abrham Gashaw[2], Adisu Gizat[2], Desalegn Nibrat[2], Sinknesh Wolde[2], Legesse Alamerie[2], Fikregabrail Aberra Kassa[2], Asrat Hailu Mekuria[3], Mulugeta Aemero[1], Fitsum Girma Tadesse[2]
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PERCEPTIONS OF FACILITY-BASED AND COMMUNITY HEALTH WORKERS IN KENYA: IMPLICATIONS FOR PROGRAMS BASED ON FINDINGS FROM THE KENYA MALARIA BEHAVIOR SURVEY

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A NOVEL HUMANIZED MURINE MODEL TO ASSESS PRIMAQUINE-INDUCED HEMOLYSIS IN G6PD DEFICIENCY

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PREDICTING OPTIMAL ANTIMALARIAL DRUG COMBINATIONS FROM A STANDARDIZED *PLASMODIUM FALCIPARUM* HUMANIZED MOUSE MODEL

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MODELLING THE HAEM DETOXIFICATION PATHWAY IN *PLASMODIUM FALCIPARUM* TO AID IN TARGET DECONVOLUTION AND MECHANISM OF ACTION STUDIES

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THE ACTIVITY OF NOVEL SLOW-ACTION ANTIPLASMODIAL 1,3,4-OXADIAZOLES IS ASSOCIATED WITH A *P. FALCIPARUM* PALMITOYLTRANSFERASE

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A SYSTEMS BIOLOGY APPROACH TO UNDERSTAND THE MECHANISMS OF ACTION OF KALIHINOL, A POTENT NEW ANTIMALARIAL

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(ACMCIP Abstract)

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EVALUATION OF THE *IN VITRO* GAMETOCYTOCIDAL ACTIVITY OF TAFENOQUINE IN COMBINATIONS WITH METHYLENE BLUE AND OTHER ANTIMALARIAL COMPOUNDSTAFENOQUINE IN COMBINATIONS WITH METHYLENE BLUE AND OTHER ANTIMALARIAL COMPOUNDS

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A FIRST-IN-HUMAN (FIH) SAFETY, TOLERABILITY, AND PHARMACOKINETICS (PK) STUDY OF MMV367, A NEW CANDIDATE ANTI-MALARIAL AGENT FOR ACUTE UNCOMPLICATED MALARIA

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EFFICACY OF PRAZIQUANTEL FOR TREATMENT OF *PLASMODIUM FALCIPARUM* INFECTION IN ASYMPTOMATIC GABONESE ADULTS

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ETHIOPIAN *PLASMODIUM VIVAX* HYPNOZOITES FORMATION DYNAMICS AND THEIR SUSCEPTIBILITY TO REFERENCE ANTIMALARIAL DRUGS

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(ACMCIP Abstract)

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VIRTUAL SCREENING OF THE NATURAL COMPOUNDS LIBRARY IDENTIFIES NATURE IDENTICAL SYNTHETIC COMPOUND METHYL GREVILLATE AS A NOVEL PFHDAC1 INHIBITOR WITH STEREOSPECIFIC MULTISTAGE ANTIMALARIAL ACTIVITY AND *IN VIVO* EFFICACY

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POPULATION PK ANALYSIS OF CHLOROQUINE IN A HUMANIZED MOUSE MODEL OF *P. FALCIPARUM* MALARIA

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WHOLE GENOME SEQUENCE ANALYSIS OF CANDIDATE GENES IDENTIFIED THREE LOCI POTENTIALLY RELATED TO MEFLOQUINE NEUROPSYCHIATRIC SIDE EFFECTS

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OPTIMAL DOSING OF SINGLE LOW DOSE PRIMAQUINE FOR TRANSMISSION BLOCKING OF *P. FALCIPARUM* IN CHILDREN.

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Malaria - Elimination

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ASSESSMENT OF PV BURDEN IN A MALARIA PRE-ELIMINATION CONTEXT AMONG HARD-TO-REACH POPULATIONS: PV SEROLOGY AND PCR AMONG CLANDESTINE GOLD-MINERS IN THE GUIANA SHIELD (2015-2019)

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IMPLEMENTATION OF MALARIA COMMUNITY CASE MANAGEMENT (MCCM) IN TANZANIA: SUCCESSES, CHALLENGES, AND WAY FORWARD

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GENERATION OF *PLASMODIUM*-RESISTANT AN. GAMBIAE

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ENTOMOLOGICAL MONITORING IN ZANZIBAR TO SUPPORT MALARIA ELIMINATION EFFORTS

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USING EVIDENCE-BASED RESEARCH TO IMPROVE TIMELY DETECTION, DIAGNOSIS, AND TREATMENT OF MALARIA IN GUATEMALA'S PUSH FOR ELIMINATION

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CLUSTERING OF ASYMPTOMATIC MALARIA INFECTIONS IN NEIGHBORING HOUSEHOLDS: REACTIVE CASE DETECTION REVIEW AND META-ANALYSIS FROM 2010 - 2022

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ACCESS TO MALARIA DIAGNOSIS AND TREATMENT IN ZAMBIA IN THE CONTEXT OF SCALING-UP COMMUNITY CASE MANAGEMENT

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HALT THE MARCHING OF *ANOPHELES* STEPHENSI IN AFRICA: FOLLOW INDIA'S INTERVENTION STRATEGIES

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REBOUND IN THE *PLASMODIUM FALCIPARUM* RESERVOIR FOLLOWING THE DISCONTINUATION OF INDOOR RESIDUAL SPRAYING AND IMPLEMENTATION OF SEASONAL MALARIA CHEMOPREVENTION IN NORTHERN GHANA

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"DON'T WAIT FOR SYMPTOMS!": INCREASING ROUTINE MALARIA TESTING AMONG FOREST-GOERS IN CAMBODIA

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AN ONLINE SURVEY OF MALARIA ON MOBILE AND MIGRANT POPULATION AMONG INDONESIAN MALARIA MANAGERS: MINERS

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SAVING LIVES FOR CHILDREN UNDER FIVE YEARS THROUGH STRENGTHENING COMMUNITY TO HEALTH FACILITY LINKAGE; A CASE OF ICCM IMPLEMENTATION IN NORTHERN UGANDA

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CLINICAL *PLASMODIUM FALCIPARUM* DURING THE DRY SEASON IN AN ENDEMIC AREA OF MALI, TORODO.

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(ACMCIP Abstract)

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NEW SURVEILLANCE STRATEGIES FOCUSED ON ELIMINATION IN SOUTHERN ANGOLA

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MATHEMATICALLY MODELLING THE IMPACT OF CASE MANAGEMENT AT BORDER AREAS ON MALARIA TRANSMISSION IN THE MOZAMBIQUE, SOUTH AFRICA AND ESWATINI REGION

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EVALUATING THE EFFECTIVENESS OF TRIMETHOPRIM-SULFAMETHOXAZOLE PROPHYLAXIS IN PREVENTING MALARIA IN PREGNANCY

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Eshetu Molla Belete, Lina Alemayehu, Legesse Alamerie, Jimma Dinsa, Melat Abdo, Migbaru Keffale, Sinknesh Wolde Behaksra, Sisay Dugassa, Endalamaw Gadisa Belachew, Fitsum Girma Tadesse, Hassen Mamo
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MOLECULAR SCREENING SUGGESTS ANTAGONISM BETWEEN PARASITEMIA WITH *PLASMODIUM FALCIPARUM* AND OVALE IN TANZANIA

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INTRA-HOST CLONAL DYNAMICS SHAPE CHRONIC *PLASMODIUM FALCIPARUM* INFECTIONS THROUGH THE DRY SEASON

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EVALUATING MALARIA PREVALENCE IN NON-HOMOGENEOUS FORMAL AND INFORMAL COMMUNITIES IN FREETOWN SIERRA LEONE: A MULTIPHASE CROSS SECTION SECTIONAL STUDY

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HIGH-THROUGHPUT GENOTYPING OF *PLASMODIUM VIVAX* IN THE PERUVIAN AMAZON VIA MOLECULAR INVERSION PROBES

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PLASMODIUM VIVAX SHOWS HIGH GENETIC DIVERSITY AND RAPID LOCAL ADAPTATION IN A REMOTE COMMUNITY FROM THE PERUVIAN AMAZON REGION

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GENETIC ANALYSIS REVEALED HIGHLY RELATED LOCAL TRANSMISSION OF *PLASMODIUM FALCIPARUM* IN THE ISLAND OF SÃO TOMÉ

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GENOME STRUCTURE OF PFHRP2/3-DELETED *PLASMODIUM FALCIPARUM*: DELETION BREAK-POINTS AND CONSEQUENCES OF THE DELETION

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DISTRIBUTION OF *PLASMODIUM FALCIPARUM* APICAL MEMBRANE ANTIGEN 1 CLUSTER ONE LOOP HAPLOTYPES AND THEIR ASSOCIATION WITH MALARIA SYMPTOMS IN BANDIAGARA, MALI

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A NOVEL PROBABILISTICALLY MODEL BASED ON GENETIC DATA FOR ESTIMATING *PLASMODIUM VIVAX* RELAPSES AFTER RADICAL CURE TREATMENT

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MOLECULAR SURVEILLANCE OF MALARIA PARASITES IN AN INDIGENOUS COMMUNITY IN THE PERUVIAN AMAZON

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COMPARISON OF MOLECULAR SURVEILLANCE METHODS TO ASSESS CHANGES IN THE POPULATION GENETICS OF *PLASMODIUM FALCIPARUM* IN HIGH TRANSMISSION

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DIFFERENTIAL REGULATION OF PFMDR2 AND PFK13 TRANSCRIPTS IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA: POTENTIAL IMPACT ON ARTEMISININ-BASED COMBINATION THERAPY RESPONSES

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SPATIAL CONNECTIVITY, IMPORTATION AND TRANSMISSION FLOW OF *PLASMODIUM FALCIPARUM* IN MOZAMBIQUE USING MICROHAPLOTYPE DATA

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EXPANDING THE GLOBAL WHOLE GENOME SEQUENCE DATASET OF *PLASMODIUM FALCIPARUM*

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PREVALENCE OF CYP2C8 POLYMORPHISM IN CHILDREN AGED 3 TO 59 MONTHS IN BOBO DIOULASSO, BURKINA FASO

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INFERRING FORCE OF INFECTION FROM MOLECULAR-BASED ESTIMATES OF MULTIPLICITY OF INFECTION IN FALCIPARUM MALARIA WITH AN APPLICATION TO INTERVENTION IN NORTHERN GHANA

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POPULATION DYNAMICS AND GENOTYPIC VARIATION OF *PLASMODIUM VIVAX* IN A LOW-ENDEMICITY AREA OF SOUTH AMERICA BETWEEN 2012 AND 2020

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GENETIC CONNECTIVITY AND TRANSMISSION METRICS OF *PLASMODIUM FALCIPARUM* IN ZAMBEZI REGION, NORTHERN NAMIBIA

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BENCHMARKING IDENTITY-BY-DESCENT CALLERS FOR *PLASMODIUM FALCIPARUM*

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THE RISK OF VACCINE GENOTYPE REPLACEMENT FOR *PLASMODIUM FALCIPARUM*

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Malaria - Immunology

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INFLAMMATORY MARKERS ASSOCIATED WITH IN-HOSPITAL MORTALITY IN CHILDREN WITH SEVERE MALARIA

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LA TROMBOCITOPENIA GRAVE SE ASOCIA CON AUTOANTICUERPOS CONTRA LA FOSFATIDILSERINA EN LA INFECCIÓN POR *PLASMODIUM VIVAX*

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(ACMCIP Abstract)

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MULTI-STAGE HUMORAL IMMUNITYTO *P. FALCIPARUM* MALARIA IN A LONGITUDINAL COHORT OF CHILDREN

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ASSOCIATION OF NOVEL IGG3 ALLOTYPE WITH MALARIA IN CHILDREN FROM SEPIK REGION OF PAPUA NEW GUINEA

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A CONSERVED EPITOPE IN VAR2CSA IS TARGETED BY CROSS-REACTIVE ANTIBODIES ORIGINATING FROM *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN

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(ACMCIP Abstract)

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THE PRESENCE OF DUFFY BINDING PROTEIN II PEPTIDES-SPECIFIC CD4+ T CELL RESPONSES IN *PLASMODIUM VIVAX* PATIENTS

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DYNAMICS OF NEUTROPHILS ACTIVITIES ACCORDING TO MALARIA INFECTION STATUS

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(ACMCIP Abstract)

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BRAIN SEQUESTERED M1-LIKE MACROPHAGES EXPRESS ABUNDANT LEVELS OF CD163 DURING EXPERIMENTAL CEREBRAL MALARIA IN MICE

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(ACMCIP Abstract)

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IMPACT OF *PLASMODIUM FALCIPARUM* MALARIA ON SARS-COV-2 ANTIBODY RESPONSES IN KENYA AND BURKINA FASO (MALCOV)

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(ACMCIP Abstract)

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LOCAL GUT MICROBIOTA TOLEROGENIC HOMEOSTASIS NEGATIVELY IMPACTS ANTI-*PLASMODIUM* SYSTEMIC IMMUNITY

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(ACMCIP Abstract)

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ROLE OF IGE RESPONSE AGAINST MALARIA INFECTION IN CHILDREN UNDER FIVE YEAR OLD, LIVING IN MALARIA ENDEMIC RURAL AREA OF BURKINA FASO

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(ACMCIP Abstract)

Malaria - Pathogenesis

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COMPARATIVE ANALYSIS OF *PLASMODIUM FALCIPARUM* TRANSCRIPTOME PROFILES REVEALS UPREGULATION OF HEAT SHOCK PROTEINS AND KINASES IN PEDIATRIC SEVERE MALARIAL ANEMIA

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PERIPHERAL BLOOD TRANSCRIPTOME PREDICTS ALTERED UBIQUITINATION PROCESS IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA

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DIFFERENTIAL ANTIBODY RESPONSES TO DUAL-BINDING PFEMP1 ANTIGENS IN MALIAN CHILDREN WITH SEVERE MALARIA USING A CUSTOM PROTEIN MICROARRAY

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ASSOCIATION BETWEEN THE GUT MICROBIOME AND MALARIA INCIDENCE IN INFANTS LIVING IN MALAWI

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DEFINING THE *PLASMODIUM* PIPECOLIC ACID PATHWAY AND ROLE IN CEREBRAL MALARIA

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MALARIA - INTESTINAL PARASITES COINFECTION AMONG CHILDREN IN A LYMPHATIC FILARIASIS ENDEMIC REGION OF GHANA

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UNRAVELLING VAR COMPLEXITY: RELATIONSHIP BETWEEN DBLA TYPES AND VAR GENES IN *PLASMODIUM FALCIPARUM*

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TRANSCRIPTOME ANALYSIS OF BLOOD-STAGE *PLASMODIUM FALCIPARUM* REVEALS UP-REGULATED PFHSP70 AND HISTONE TRANSCRIPTS IN SEVERE MALARIAL ANEMIA

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SINGLE CELL SEQUENCING OF BRAIN SEQUESTERED CD8⁺ T CELLS DURING EXPERIMENTAL CEREBRAL MALARIA

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(ACMCIP Abstract)

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IMPORTANCE OF INSULIN-LIKE GROWTH FACTOR : IGF-1 IN *PLASMODIUM VIVAX* MALARIA

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NON-FALCIPARUM SPECIES INFECTIONS AND MALARIA SEVERITY: PRELIMINARY FINDINGS IN HIGH TRANSMISSION SETTINGS IN SENEGAL

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Malaria - Prevention

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ACCEPTABILITY OF TECHNOLOGICAL INNOVATION IN MALARIA VECTOR CONTROL IN MALI: THE CASE OF ATTRACTIVE TARGETED SUGAR BAIT IN THE HEALTH DISTRICT OF KATI MALI

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EFFECT OF SEASONAL MALARIA CHEMOPREVENTION ON ASEXUAL *PLASMODIUM FALCIPARUM* INFECTION IN CHILDREN AGED 5 TO 14 YEARS IN DANGASSA, MALI

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FACTORS AFFECTING PREGNANT WOMEN'S ADHERENCE TO INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN THE NANORO HEALTH DISTRICT

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LARGER FAMILIES ARE LESS LIKELY TO ACHIEVE UNIVERSAL LONG-LASTING INSECTICIDAL NETS COVERAGE IN ETHIOPIA

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CAREGIVER KNOWLEDGE AND CONFIDENCE IN SMC EFFECTIVENESS IN NIGERIA

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UTILIZATION OF LONG-LASTING INSECTICIDAL NETS AT HOUSEHOLD AND INDIVIDUAL LEVELS IN SIDAMA REGION, SOUTHERN ETHIOPIA

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IMPACT OF SCALING UP SEASONAL MALARIA CHEMOPREVENTION ON COVERAGE AND QUALITY OF IMPLEMENTATION IN KARAMOJA REGION, UGANDA

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STAKEHOLDER PERSPECTIVES ON INCORPORATING A NEW VECTOR CONTROL TOOL INTO THE KENYA NATIONAL MALARIA VECTOR CONTROL POLICY

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FACTORS ASSOCIATED WITH INSECTICIDE TREATED BED NET ACCESS AND USE IN SUSSUNDENGA, MOZAMBIQUE

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IMPACT OF INDOOR RESIDUAL SPRAYING AT THE END OF THE RAINY SEASON IN A HOLOENDEMIC MALARIA TRANSMISSION SETTING IN NORTHERN ZAMBIA: A DEMONSTRATION PROJECT

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FREE-LISTING OF MOSQUITO CONTROL STRATEGIES IN BUSIA COUNTY, WESTERN KENYA

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FEASIBILITY AND ACCEPTABILITY OF GROUP ANTENATAL CARE FOR MATERNAL HEALTH CARE PROVIDERS AND SUPERVISORS IN RURAL HEALTH CENTERS IN BENIN

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INFLUENCE OF SEASONAL MALARIA CHEMOPREVENTION ON THE PREVALENCE OF MALARIA INFECTION, *PLASMODIUM FALCIPARUM* GENETIC DIVERSITY AND RESISTANCE PROFILE IN CHILDREN LIVING IN RURAL AREAS OF BURKINA FASO

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(ACMCIP Abstract)

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ASSESSING THE IMPACT OF GROUP ANC ON IPTP UPTAKE IN ATLANTIQUE DEPARTMENT, BENIN: A CLUSTER RANDOMIZED CONTROLLED TRIAL

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EXPLORING NET USAGE, PREFERENCES, AND REPAIR HABITS: A QUALITATIVE STUDY ON MALARIA PREVENTION STRATEGIES IN KONONGO, GHANA

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"AFTER A LONG DAY OF PLAY, I GET TIRED AND FORGET TO UNFURL MY BEDNET": EXPLORING BARRIERS AND FACILITATORS OF BEDNET USE IN EASTERN UGANDA

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PREDICTORS OF ACCESS TO SEASONAL MALARIA CHEMOPREVENTION MEDICINES OUTSIDE HOUSEHOLD VISITS IN NIGERIA IN 2021

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THE ROLE OF COMMUNITY DRUG DISTRIBUTORS IN THE QUALITY OF SMC DELIVERY IN NIGERIA

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QUANTIFYING THE ADDED BENEFIT TOWARD MALARIA ELIMINATION BY COMMUNITY CASE MANAGEMENT IN THE DOMINICAN REPUBLIC

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OPTIMAL STRATIFICATION STRATEGIES IN THE SELECTION OF SENTINEL SITES FOR AN INTEGRATED MALARIA SURVEILLANCE IN BENIN

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IMPROVING MALARIA EPIDEMIC SURVEILLANCE THROUGH ACTIVE ENGAGEMENT OF DISTRICT LEADERS. LESSONS FROM BUSOGA REGION IN EASTERN UGANDA

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PLASMODIUM FALCIPARUM MALARIA MOLECULAR INDICATORS IN SOUTH WEST BURKINA FASO: COMPARISON OF ACTIVE AND PASSIVE CASE DETECTION

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THE YELLOW FEVER OUTBREAK SHEDS LIGHT ON THE MISSED THREAT OF MALARIA IN ISIOLO COUNTY, KENYA 2022

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PIONEERING ELECTRONIC FORMS AND REPORTING IN SEASONAL MALARIA CHEMOPREVENTION IMPLEMENTATION AMID INSECURITY IN ZAMFARA STATE

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TRACKING PROGRESS OF PROPORTIONAL USAGE ANTIMALARIALS FOR TREATMENT OF *P. FALCIPARUM* INFECTIONS IN CHILDREN, TWO DECADES OF ACT POLICY IMPLEMENTATION

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SPATIAL AND TEMPORAL VARIATION OF MALARIA CLINICAL INCIDENCE IN CHILDREN UNDER 10 YEARS OF AGE IN KOULIKORO, MALI

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THE VALUE OF END-USE VERIFICATION SURVEYS ON THE AVAILABILITY OF ANTIMALARIAL COMMODITIES IN MADAGASCAR, 2022

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ENGAGING HEALTH FACILITY TEAMS TO IMPROVE MALARIA DATA QUALITY, USE, AND SERVICE DELIVERY IN AKWA IBOM STATE

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MALARIA MOLECULAR SURVEILLANCE IDENTIFIES CLONAL PARASITE POPULATION STRUCTURE IN DIOURBEL SENEGAL THAT REVEALS TRANSMISSION PATTERNS TO INFORM OPERATIONAL ACTIVITIES

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IMPROVING MALARIA SURVEILLANCE DATA: INSIGHTS FROM SOUTHERN ANGOLA

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DEFINING PCR-DETECTED PARASITEMIA THRESHOLDS FOR CLINICAL MALARIA FROM ACTIVE AND PASSIVE CASE DETECTION

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INTEGRATED AND INNOVATIVE DECENTRALIZED MALARIA RESURGENCE RESPONSES IN THE SOUTH EAST OF MADAGASCAR

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USING DATA INTEGRATION AND VISUALIZATION TO STRENGTHEN THE MALARIA SURVEILLANCE SYSTEM IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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MODEL-BASED ESTIMATES OF LONG-TERM AND SEASONAL MIGRANTS IN NORTHWESTERN DISTRICTS OF ETHIOPIA

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Malaria - Transmission Biology

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A SECOND BLOOD MEAL ELEVATES THE *PLASMODIUM VIVAX* SPOROZOITE LOAD IN *ANOPHELES* DIRUS SALIVARY GLANDS

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CLONAL TRANSMISSIBILITY AND FACTORS INFLUENCING HUMAN-TO-MOSQUITO TRANSMISSION OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* INFECTIONS OVER THE COURSE OF ARTEMISININ-BASED COMBINATION THERAPIES IN MALI

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(ACMCIP Abstract)

Cestodes (including taeniasis and cysticercosis, echinococcosis/hydatid disease, and others)

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STUDY OF AN IMPORTANT GENE FOR SEXUAL REPRODUCTION OF *P. BERGHEI* AS A POTENTIAL TARGET FOR BLOCKING MALARIA TRANSMISSION

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EVALUATION OF THE ACTIVITY OF ESSENTIAL OILS OF HYPTIS SPICIGERA LAM. AND OCIMUM AMERICANUM L. IN THE MALARIA TRANSMISSION BLOCKING

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MALARIA VECTOR NUTRITION PREDICTS RATE OF *PLASMODIUM FALCIPARUM* DEVELOPMENT AND INFECTIVITY

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PLASMODIUM FEMALE GAMETE SURFACE HSP90 IS A KEY DETERMINANT FOR MOSQUITO INFECTION

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(ACMCIP Abstract)

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INVASION OF RED BLOOD CELLS BY *PLASMODIUM* MALARIAE: UNRAVELING INTRA-ERYTHROCYTE DEVELOPMENT AND MOLECULAR MECHANISMS

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(ACMCIP Abstract)

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THE ROLE OF THE *PLASMODIUM FALCIPARUM* ACETYL-COA SYNTHETASE IN GAMETOCYTOGENESIS AND TRANSMISSION

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(ACMCIP Abstract)

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MOUSE ERYTHROCYTE BASIGIN INTERACTS WITH *PLASMODIUM* YOELII ERYTHROCYTE BINDING LIKE PROTEIN

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TRANSMISSIBILITY OF PRIMARY AND RECURRENT *P. VIVAX* INFECTIONS AND THE ROLE OF TRANSMISSION MODULATING IMMUNITY IN ETHIOPIA

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A TWO PATCH MODEL FOR MUTASA AND NYANGA DISTRICTS IN MANICALAND PROVINCE ZIMBABWE INCORPORATING CLIMATIC CONDITIONS

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DESCRIPTION OF *PLASMODIUM FALCIPARUM* TRANSMISSION ASSOCIATED HAPLOTYPES

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DYNEIN HEAVY CHAINS IN *PLASMODIUM FALCIPARUM* DURING GAMETOCYTES DEVELOPMENT

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(ACMCIP Abstract)

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LOSS OF FUNCTION OF THE *PLASMODIUM FALCIPARUM* PROLINE TRANSPORTER MFR4 MEDIATES HALOFUGINONE RESISTANCE BUT RESULTS IN OOCYST DEVELOPMENTAL DYSFUNCTION.

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(ACMCIP Abstract)

Malaria - Vaccines and Immunotherapeutics

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A SINGLE FULL-LENGTH VAR2CSA ECTODOMAIN ELICITS HETEROLOGOUS FUNCTIONAL ANTIBODIES IN AOTUS NANCYMAAE

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INITIAL EVALUATION OF THE PVS230D1-EPA CONJUGATE VACCINE CANDIDATE

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SYSTEMS SEROLOGY OF PFSPZ VACCINE REVEALS IMPORTANCE OF NON-PFCSP ANTIBODY IMMUNITY IN LONG-LASTING PROTECTION

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(ACMCIP Abstract)

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CHARACTERIZATION OF KENYAN *PLASMODIUM FALCIPARUM* FIELD ISOLATES FOR USE IN CONTROLLED HUMAN MALARIA INFECTION

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CROSS-SECTIONAL ASSESSMENT OF FACTORS DRIVING PARTIAL VERSUS FULL UPTAKE OF RTS,SAS01 MALARIA VACCINE AMONG CHILDREN IN RARIEDA SUB-COUNTY, WESTERN KENYA, 2021 TO 2022

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FEASIBILITY EVALUATION OF RTS,S/AS01 MALARIA VACCINE PILOT INTRODUCTION IN WESTERN KENYA: COVERAGE SURVEY RESULTS 30 MONTHS POST-INTRODUCTION

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THE ADDITIVE VALUE OF RTS, S,AS01 MALARIA VACCINE IN REDUCING MALARIA INFECTION AMONG UNDER FIVE CHILDREN IN MALAWI

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RTS,S MALARIA VACCINE COMBINED WITH PYRETHROID-PIPERONYL BUTOXIDE-LONG-LASTING INSECTICIDAL NETS (PBO-LLIN) PROVIDES ADDED PROTECTION AGAINST *PLASMODIUM FALCIPARUM* INFECTION COMPARED WITH PBO-LLIN ALONE

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IMPACT OF RTS, S/AS01E VACCINATION ON *PLASMODIUM* SPECIES COMPOSITION IN INDIVIDUALS ENROLLED FOR AT BASELINE AND DURING THE SUBSEQUENT FOLLOW-UP PERIOD IN MALARIA ENDEMIC REGIONS OF WESTERN KENYA IN KISUMU COUNTY

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EFFICACY OF THE RTS,S/AS01E MALARIA VACCINE ADMINISTERED ACCORDING TO DOSAGE REGIMEN UNDER CONDITIONS OF NATURAL EXPOSURE IN AFRICAN CHILDREN AGED 5-17 MONTHS: INSIGHTS FROM EXTENDED GENOTYPING-BASED ENDPOINT RESULTS AND MALARIA INFECTION STATUS AT FIRST VACCINATION FROM A PHASE 2B RANDOMIZED CONTROLLED TRIAL

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THE EFFECT OF RTS,S, AND SMC ALONE OR COMBINED ON ANTIMALARIAL ANTIBODY RESPONSES

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ESTABLISHING RTS,S/AS01 AS A BENCHMARK COMPARATOR FOR NEXT-GENERATION MALARIA VACCINES IN THE TGPB-PFCSP MOUSE CHALLENGE MODEL

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Bacteriology - Enteric Infections

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GENETIC PHYLOGENY OF DIARRHEAGENIC ESCHERICHIA COLI ISOLATED IN CHILDREN BELOW FIVE YEARS LIVING IN CLOSE CONTACT WITH FOOD ANIMALS, KISUMU COUNTY

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CHANGES IN GROWTH OBSERVED IN DIFFERENT ANTHROPOMETRIC INDICES AT 90-DAY POST-DISCHARGE FOLLOW-UP AMONG CHILDREN AGED 2-23 MONTHS REQUIRING READMISSION COMPARED TO THOSE WHO DID NOT REQUIRE READMISSION

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CLINICAL, SOCIO-ECONOMIC AND PATHOGENIC FACTORS OF WASTED AND OVERWEIGHT/OBESE UNDER-FIVE CHILDREN WITH DIARRHOEA: EXPERIENCE FROM AN URBAN HOSPITAL IN BANGLADESH

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SOCIODEMOGRAPHIC AND CLINICAL DETERMINANTS OF DIARRHEA AFFECTED CHILDREN TREATED WITH ANTIBIOTICS EMPIRICALLY PRIOR COMING TO HEALTH CARE FACILITIES IN DEVELOPING COUNTRIES LIKE BANGLADESH

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DIARRHEA IN A MILITARY SETTING: EPIDEMIOLOGY, ETIOLOGIES AND IMPACT OF THE DISEASE IN MILITARY PERSONNEL DEPLOYED AT CAMP LEMONNIER, DJIBOUTI

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ASSOCIATION BETWEEN ENTEROPATHOGENS, THE GUT MICROBIOTA AND BIOMARKERS OF ENVIRONMENTAL ENTERIC DYSFUNCTION IN RURAL MALAWIAN CHILDREN

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(ACMCIP Abstract)

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HYPERGLYCEMIA IN DIARRHEAL CHILDREN; CAN WE PREDICT CLINICAL STATUS?

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EPIDEMIOLOGICAL AND LABORATORY INVESTIGATION TO IDENTIFY SOURCES OF A COMMUNITY OUTBREAK OF CHOLERA

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CHARACTERISTICS OF 2-23 MONTHS OLD CHILDREN WITH PROLONGED DIARRHEA COMPARED TO THOSE WITH ACUTE DIARRHEA AND THEIR IMPACT DURING POST-DISCHARGE FOLLOW-UP AT DAY 90

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CLINICAL AND ENVIRONMENTAL EPIDEMIOLOGY OF VIBRIO CHOLERAE IN EASTERN DEMOCRATIC REPUBLIC OF THE CONGO, 2020-2022 (PICHA7 PROGRAM)

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ACUTE FEBRILE ILLNESS IN PAKISTAN: ASSESSING CO-INFECTION OF MALARIA AND TYPHOID FEVER IN TERTIARY CARE FACILITIES IN KARACHI

Zoumana I. Traore[1], Afsheen Ghani[2], Zulfiqar A. Naqvi[3], Kausar A. Saldera[4], Furqan Hasan[5], Shamsul A. Qasmi[2], Claire J. Standley[1]
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SIGNATURE OF EUKARYOTIC AND PROKARYOTIC GUT-MICROBIOME AMONG PATIENTS WITH GUT DISORDERS, SAUDI ARABIA

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(ACMCIP Abstract)

Bacteriology - Trachoma

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USE OF BIOMARKERS TO MONITOR TRACHOMA PREVALENCE AFTER IMPLEMENTATION OF MORE FREQUENT THAN ANNUAL MDA IN MAASAI COMMUNITIES IN NORTHERN TANZANIA

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QUALITY OF TRACHOMATOUS TRICHIASIS (TT) SURGERY IN 25 DISTRICTS OF SNNP AND SWE REGIONS: SUMMARY FINDINGS OF 31 SURGICAL AUDITS IN 2022

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UTILIZING MOLECULAR DIAGNOSTICS TO SUPPORT THE TRACHOMA CONTROL PROGRAM IN NAURU

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NEARING ELIMINATION OF TRACHOMA AS A PUBLIC HEALTH PROBLEM IN AUSTRALIA

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OLDER AGE IN SUBARACHNOID NEUROCYSTICERCOSIS REFLECTS A LONG PRE-PATENT PERIOD

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SEROPREVALENCE AND RISK FACTORS FOR NEUROCYSTICERCOSIS IN MEXICAN-AMERICANS IN STARR COUNTY, TEXAS

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THE POTENTIAL MECHANISTIC PATHWAYS LEADING FROM PARASITE INFECTION TO CHILDHOOD STUNTING

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PROTEOMIC AND IMMUNOINFORMATIC APPROACH TO IDENTIFY IMMUNE REACTIVE PROTEINS OF TAENIA SOLIUM CYSTICERCI FOR A POTENTIAL MULTIEPITOPE VACCINE CANDIDATE

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NEUROCYSTICERCOSIS, NEUROLOGICAL DISEASE AND HIV IN THE EASTERN CAPE PROVINCE OF SOUTH AFRICA

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CONSISTENT MEASUREMENT OF PARASITE-SPECIFIC ANTIGEN LEVELS IN SERA OF PATIENTS WITH NEUROCYSTICERCOSIS USING TWO DIFFERENT MONOCLONAL ANTIBODY (MAB)-BASED ENZYME-LINKED IMMUNOSORBENT ASSAYS

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MULTIPLEX BEAD ASSAY (MBA) FOR THE ASSESSMENT OF ANTIBODY RESPONSES DURING CYSTICERCOSIS IN EXPERIMENTAL INFECTED PIGS

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LATERAL FLOW TEST FOR NEUROCYSTICERCOSIS - PRELIMINARY EVALUATION

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LATE POST-TREATMENT INFLAMMATORY RESPONSE AND RESIDUAL CALCIFICATION IN NEUROCYSTICERCOSIS

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(ACMCIP Abstract)

Helminths – Nematodes – Intestinal Nematodes

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INFLUENCE OF EUKARYOTIC ENTERIC PATHOGENS ON THE GUT FUNGAL COMMUNITY IN MALIAN CHILDREN

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HELMINTH INFECTION DRIVES REDUCED SERUM COMPLEMENT AND COMPLEMENT REGULATORY PROTEIN ACTIVATION IN INDIVIDUALS WITH COINCIDENT TYPE 2 DIABETES

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(ACMCIP Abstract)

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DESCRIPTIVE AND PREDICTIVE ANALYSIS OF SOIL-TRANSMITTED HELMINTHIASIS IN SCHOOLCHILDREN OF TIERRALTA, CORDOBA, COLOMBIA

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TRICHURIS TRICHIURA INFECTION ASSOCIATED WITH AN INCREASED RISK OF *PLASMODIUM FALCIPARUM* INFECTION AMONG POPULATION LIVING IN BATA DISTRICT, EQUATORIAL GUINEA

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INTESTINAL PARASITIC INFECTIONS AND ASSOCIATED RISK FACTORS, KNOWLEDGE, ATTITUDE AND PRACTICES IN CALABAR, CROSS-RIVERS STATE, NIGERIA

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MOLECULAR CHARACTERIZATION OF A NOVEL GHANA STRAIN OF NECATOR AMERICANUS HOOKWORMS

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ASSOCIATED SOCIOECONOMIC AND DEMOGRAPHIC FACTORS WITH SOIL-TRANSMITTED HELMINTHIASIS IN FIVE PROVINCES IN GABON

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THERAPEUTIC EFFICACY OF MEBENDAZOLE AGAINST HOOKWORM INFECTION AMONG SCHOOL CHILDREN IN BAHIR DAR ZURIA DISTRICT, NORTHWEST ETHIOPIA

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DEVELOPMENT AND EFFICACY OF VARIOUS PAN-HOOKWORM VACCINE TARGETS

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NEW CURE FOR SOIL-TRANSMITTED HELMINTH INFECTIONS

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EFFECT OF SOIL-TRANSMITTED HELMINTH INFECTIONS ON THE CYTOKINE BALANCE IN CHILDREN FROM AN ENDEMIC AREA IN MONTERÍA - CÓRDOBA - COLOMBIA

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INTESTINAL PARASITE INFECTION AND RISK OF CONCOMITANT CERVICO-VAGINAL INFECTIONS IN THE PERUVIAN AMAZON

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Clinical Tropical Medicine

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SUCCESSFUL TREATMENT OF CUTANEOUS LEISHMANIASIS WITH INTRAMUSCULAR INJECTION OF SODIUM STIBOGLUCONATE IN AN 18 MONTH OLD CHILD

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A NOVEL TREATMENT FOR SCABIES

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KINETICS OF CARDIOVASCULAR AND INFLAMMATORY BIOMARKERS IN CHILDREN WITH DENGUE SHOCK SYNDROME

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THE IMPACTS OF COVID-19 ON THE RESURGENCE OF LASSA FEVER IN NIGERIA

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SCRUB TYPHUS AND Q FEVER AMONG HOSPITALIZED PATIENTS WITH ACUTE FEBRILE ILLNESS IN BANGLADESH

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TIMELY RETURN OF TEST RESULTS FOR MEASLES AND YELLOW FEVER: A SURVEY OF CARE PROVIDERS IN GHANA

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CEREBROSPINAL FLUID CHLORIDE IN THE DIAGNOSIS OF TUBERCULAR MENINGITIS- A PROSPECTIVE STUDY FROM JODHPUR, INDIA

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A CASE OF MPOX REINFECTION

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IMPACT OF DIFFERENTIAL AND SYSTEMATIC DIAGNOSIS OF DENGUE, CHIKUNGUNYA AND MALARIA ON PATIENT MANAGEMENT AND ANTIBIOTIC USE IN BURKINA FASO AND IVORY COAST

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INTESTINAL IMMUNOHISTOCHEMISTRY AND HISTOLOGY RELATIONSHIPS WITH FECAL ENTERIC PATHOGENS IN A PEDIATRIC POSTMORTEM STUDY

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TRAVEL HEALTH NEEDS OF CHILDREN IN US MILITARY FAMILIES STATIONED ABROAD

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VALIDATION OF AN NS1 AND IGM RAPID TEST IN THE EARLY DIAGNOSIS OF DENGUE IN A PRIMARY HEALTH CARE CENTRE IN BUCARAMANGA, COLOMBIA DURING THE YEARS 2018-2020

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THE EFFECTS OF L-CARNITINE SUPPLEMENTATION ON RATE OF WEIGHT GAIN & BIOMARKERS OF ENVIRONMENTAL ENTERIC DYSFUNCTION IN SEVERELY MALNOURISHED CHILDREN: A DOUBLE-BLINDED RANDOMIZED CLINICAL TRIAL

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BRAINSTEM ENCEPHALITIS AND EXTRAPYRAMIDAL SYNDROME AFTER ZIKA VIRUS INFECTION IN SALVADOR, BRAZIL

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EFFECT OF PRIOR DENGUE INFECTION AND SINGLE-DOSE DENGUE VACCINATION ON THE RISK OF SUBSEQUENT VIROLOGICALLY CONFIRMED DENGUE: A FIVE-YEAR PROSPECTIVE COHORT STUDY IN CEBU, PHILIPPINES

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MOLECULAR SURVEILLANCE AND EPIDEMIOLOGY OF LEPTOSPIROSIS AND SCRUB TYPHUS FROM PATIENTS WITH FEVER OF UNKNOWN ORIGIN IN URBAN BANGALORE, INDIA

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A CASE OF TYPE 1 LEPROSY REACTION WITH NASAL SEPTUM PERFORATION

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HIV and Tropical Co-Infections

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PREDICTORS OF VIRAL UNSUPPRESSION AMONG ADOLESCENTS AGED 10 TO 19 ON ANTIRETROVIRAL THERAPY IN THE CITE VERTE HEALTH DISTRICT

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INTEGRATION OF FEMALE GENITAL SCHISTOSOMIASIS INTO HIV/SEXUAL AND REPRODUCTIVE HEALTH AND RIGHTS AND NEGLECTED TROPICAL DISEASES PROGRAMS AND SERVICES: A SCOPING REVIEW WITH A SYSTEMATIC SEARCH

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DIAGNOSING A WOMAN PRESENTING WITH FOCAL WEAKNESS AND FACIAL PALSY IN MONROVIA, LIBERIA WITH PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY: A CASE REPORT

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BONE MARROW CRYPTOCOCCOSIS: A RARE PRESENTATION OF A COMMON INFECTION IN AN IMMUNOSUPPRESSED PATIENT

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TB CASE NOTIFICATIONS, TB/HIV CO-MORBIDITIES AND TREATMENT OUTCOMES IN AMHARA REGION, ETHIOPIA: A RETROSPECTIVE LONGITUDINAL PROGRAM BASED STUDY

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CLINICAL SIGNS AND IMMUNE RESPONSE CHANGES DURING *PLASMODIUM* FRAGILE CO-INFECTION OF ART-TREATED SIV+ RHESUS MACAQUES

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EPIDEMIOLOGY OF CO-INFECTIONS IN PREGNANT WOMEN LIVING WITH HUMAN IMMUNODEFICIENCY VIRUS 1 IN RURAL GABON: A CROSS SECTIONAL STUDY

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A DECADE IN CHANGING TRENDS IN HIV PREVALENCE AND INCIDENCE IN PREGNANT WOMEN IN SOUTHERN MOZAMBIQUE

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DRUG RESISTANCE MUTATIONS DETECTED IN HIV-1 PROTEASE GENES ISOLATED FROM HIV-1 INFECTED PERSONS FROM EASTERN REGION OF GHANA

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CLOSING THE KNOWLEDGE GAP IN HUMAN IMMUNODEFICIENCY VIRUS PREVENTION AMONG ADOLESCENTS IN RURAL SETTINGS, BURKINA FASO

Noubar Clarisse Dah[1], Ourohiré Millogo[1], Lina Nurhussien[2], Pascal Zabré[1], Sachin Shinde[2], Valentin Boudo[1], Moustapha Nikiéma[1], Wafaie W. Fawzi[3], Ali Sié[1]
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KNOWLEDGE AND PERCEPTIONS OF PRIMARY HEALTHCARE PROVIDERS TOWARDS INTEGRATION OF ANTIRETROVIRAL THERAPY SERVICES AT DEPARTMENTAL LEVELS AT SELECTED HEALTH FACILITIES LIRA DISTRICT, UGANDA

Steven Sean Puleh, Emmanuel Asher Ikwara, Syliviah Namutebi, Lakeri Nakero, Rogers Isabirye, Maxson Kenneth Anyolitho
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PREGNANCY OUTCOMES IN WOMEN WITH INFECTIOUS AND CHRONIC COMORBIDITY IN WESTERN KENYA

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SOCIAL MOBILIZATION FOR ENHANCED MICROPLANNING IN DEWORMING PROGRAMS

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ENGAGING YOUNG PEOPLE AS AGENTS OF CHANGE: A PRIMARY SCHOOL EDUCATIONAL INTERVENTION TO DECREASE ARBOVIRAL AND PROTOZOAL RISK IN GRENADA

Bethel Bayrau[1], Nikita Cudjoe[2], Prathik Kalva[1], Zakaria Nadeem Doueiri[1], Basil Williams[2], Makeda Fletcher[2], Sarah Telesford[2], Arani Thirunavukarasu[2], Lashawnd Johnson[2], Calum Macpherson[2], Ann W. Banchoff[1], Abby C. King[1], Trevor Noël[2], A. Désirée LaBeaud[1]
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IMPROVING ACCESS TO MOBILITY MANAGEMENT AND DISABILITY PREVENTION (MMDP) MANAGEMENT OF LYMPHATIC FILARIASIS (LF) COMPLICATIONS TOWARDS THE WORLD HEALTH ORGANIZATION 2030 LF ELIMINATION GOAL: A PILOT STUDY CONDUCTED IN LIBERIA 2022 TO CLOSE THE GAPS IN CASE MANAGEMENT NTDS CARE—LYMPHATIC FILARIASIS

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THE EFFECT OF AN INNOVATIVE COMMUNITY HEALTH EDUCATION ON TRACHOMA PREVENTION AND CONTROL IN NORTHERN NIGERIA

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Edwin Mayoki[1], Joyce Achan[1], Stephen Begumisa[1], Rapheal Opon[2], Sharone Backers[1], Stella Agunyo[1], Clara Burgert-Brucker[3], Jeremiah Ngondi[3], Brian Allen[3], Erica Shoemaker[3], Charles Kissa[2], Alfred Mubangizi[2], Stephen Otim[4], Denis Olaka[5]
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FROM PRIORITY TO PRACTICE: MAKING APPLICATION OF DIGITAL PLATFORMS FOR IMPROVING TRACHOMA MDA PERFORMANCE A REALITY TOWARDS ADDRESSING END GAME CHALLENGES IN LONGIDO TANZANIA

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THE IMPACT OF TEN ROUNDS OF TWICE-PER-YEAR TREATMENT WITH IVERMECTIN ON ONCHOCERCIASIS TRANSMISSION IN HYPERENDEMIC AREAS OF JIMMA AND ILLUBABOR ZONES, SOUTHWEST ETHIOPIA

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ELIMINATING ONCHOCERCIASIS IN LOIASIS ENDEMIC AREAS: ADDED VALUE OF THE SLASH AND CLEAR STRATEGIES

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STRENGTHENING OF THE LOCAL HEALTH CAPACITY FOR THE IMPLEMENTATION OF THE FRAMEWORK FOR ELIMINATION OF MOTHER-TO- CHILD TRANSMISSION (EMTCT) OF HIV, SYPHILIS, CHAGAS DISEASE AND HEPATITIS B IN PAMPA DEL INDIO, CHACO (ARGENTINA)

Mariana Fernández[1], Karina Duarte[2], Noelia Zalazar[2], Silvana Pividori[2], Graciela I. Martínez[1], Marcelo Wirtz[1], Favio Crudo[1], **Maria Victoria Periago**[3]
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MONITORING TRACHOMA MASS ADMINISTRATION (MDA) USING AN ELECTRONIC SUPERVISOR COVERAGE TOOL (SCT)

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Kinetoplastida and Other Protozoa - Immunology (Including Leishmania and Trypanosomes)

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THE ROLE OF MICROBIOTA AND CO-LOCALIZATION IN THE DISSEMINATION OF VECTOR TRANSMITTED PATHOGENS

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(ACMCIP Abstract)

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INFECTION OF MONOCYTES WITH LEISHMANIA INFANTUM CAUSES DIFFERENCES IN EXTRACELLULAR VESICLE MIRNA PROFILES

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(ACMCIP Abstract)

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PEOPLE WITH DIFFERENT CLINICAL PRESENTATIONS OF L. DONOVANI INFECTION HAVE DIFFERENT MICRO-RNA PROFILES IN CIRCULATING PLASMA

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(ACMCIP Abstract)

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PREVALENCE OF CUTANEOUS LEISHMANIASIS IN ENDEMIC COMMUNITIES OF THE VOLTA REGION, GHANA

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(ACMCIP Abstract)

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EXPRESSION OF ENDOPLASMIC RETICULUM STRESS RESPONSE MARKERS IN CUTANEOUS LEISHMANIASIS

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IMPACT OF DECLINING DISEASE TRANSMISSION ON MAINTENANCE OF IMMUNOLOGICAL MEMORY IN SUBJECTS WITH PAST HISTORY OF VISCERAL LEISHMANIASIS

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MULTIMODAL THERAPEUTIC TREATMENT FOR CHRONIC CHAGAS DISEASE

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INTESTINAL MICROBIOTA MEDIATE PROTECTION AGAINST GIARDIA INFECTION INDEPENDENT OF HOST ADAPTIVE IMMUNITY

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COMPARISON OF DERMAL AND SYSTEMIC IMMUNE RESPONSES IN PROGRESSIVE STAGES OF CANINE LEISHMANIOSIS

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EVALUATION OF BLT2 RECEPTO IMMUNOREACTIVITY IN CARDIAC TISSUE FROM RATS INFECTED WITH TRYPANOSOMA CRUZI AT DIFFERENT POST-INFECTION STAGES

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Kinetoplastida and Other Protozoa - Invasion, Cellular and Molecular Biology (Including Leishmania and Trypanosomes)

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PEPTIDE SELECTION VIA PHAGE DISPLAY TO INHIBIT LEISHMANIA-MACROPHAGE INTERACTIONS

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IN VITRO INTERACTION OF MACROPHAGE U937 WITH LEISHMANIA (VIANNIA) ISOLATES INFECTED WITH LEISHMANIA VIRUS IN PANAMA, CENTRAL AMERICA

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DETECTION OF LEISHMANIAVIRUS IN ISOLATES OF LEISHMANIA VIANNIA IN PANAMA, CENTRAL AMERICA

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CELL-BASED CARDIOMYOPATHY MODELS FOR CHAGAS DISEASE BIOMARKER DISCOVERY

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GENETIC TAXONOMIC ANALYSIS OF CHILOMASTIX GENUS

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MOLECULAR STUDY OF THE NUCLEOLAR METHYLTRANSFERASE FIBRILLARIN OF THE HUMAN PATHOGEN LEISHMANIA MAJOR

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ESTABLISHMENT OF AN *IN VITRO* CULTURE MODEL OF TOXOPLASMA GONDII BRADYZOITE CYSTS

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Kinetoplastida and Other Protozoa - Treatment, Drug Delivery, Drug Repurposing and Drug Discovery (Including Leishmania and Trypanosomes)

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DRUG REPURPOSING AND SCREENING OF LIBRARIES OF CHEMICAL COMPOUNDS TO IDENTIFY NEW ANTI-PARASITIC AGENTS

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DEEP LEARNING APPROACH SUCCESSFULLY IDENTIFIES FDA APPROVED MOLECULES TO PRESENT ANTI-LEISHMANIA EFFECT AT THE PROMASTIGOTE STAGE

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IN VITRO ANTITRYPANOSOMAL, ANTIOXIDANT AND CYTOTOXICITY ACTIVITIES, LC-MS ANALYSIS AND MOLECULAR DOCKING ANALYSIS OF BIOACTIVE COMPOUNDS FROM ANOPYXIS KLAINEANA AGAINST TRYPANOSOMA BRUCEI'S UDP-GALACTOSE 4`-EPIMERASE (TBGALE)

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HIGH LEVEL OF 'NEVER TREATMENT' IN MASS DRUG ADMINISTRATION AGAINST NEGLECTED TROPICAL DISEASES IN KENYA, NIGERIA, DEMOCRATIC REPUBLIC OF CONGO AND CAMEROON

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OPHTHALMOLOGICAL COMPLICATIONS IN VISCERAL LEISHMANIASIS AND POST KALA-AZAR DERMAL LEISHMANIASIS

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HOST, PARASITE AND DRUG DETERMINANTS OF TREATMENT OUTCOMES IN VISCERAL LEISHMANIASIS: AN INDIVIDUAL PATIENT DATA META-ANALYSIS USING THE INFECTIOUS DISEASES DATA OBSERVATORY DATA PLATFORM

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SAROCLADIUM STRICTUM SECONDARY METABOLITES BLOCK *P. FALCIPARUM* TRANSMISSION TO MOSQUITOES

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Kinetoplastida and Other Protozoa - Vaccines (Including Leishmania and Trypanosomes)

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VACCINE-LINKED CHEMOTHERAPY AS A NOVEL STRATEGY FOR CHAGAS DISEASE

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One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

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SURVEILLANCE OF ENTERIC VIRUSES AND SARS-COV-2 IN SELECTED LEAFY VEGETABLES AND FARMERS IN THE OFORIKROM DISTRICT, KUMASI, GHANA

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HOUSING STRUCTURES AND VISCERAL LEISHMANIASIS TRANSMISSION IN BARINGO COUNTY, KENYA

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A PREDICTIVE MODEL ACCOUNTING FOR DEFORESTATION ACROSS TEMPORAL AND SPATIAL SCALES IDENTIFYING ANNUAL SHIFTS IN THE ODDS OF EBOLAVIRUS ZOONOTIC SPILLOVER

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INTEGRATING ECOLOGY AND EPIDEMIOLOGY TO EMPOWER ONE HEALTH: A STUDY OF RIFT VALLEY FEVER

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EVIDENCE AND GAP MAP FOR MULTI-SECTOR AND ONE HEALTH RESEARCH IN ZOONOTIC NEGLECTED TROPICAL DISEASES

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EPIDEMIOLOGY OF ANIMAL BITES AND POST-EXPOSURE PROPHYLAXIS (PEP) OF RABIES IN RUPANDEHI, NEPAL

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ASSOCIATION OF ALTERED BASELINE HEMATOLOGICAL PARAMETERS WITH ADVERSE TUBERCULOSIS TREATMENT OUTCOMES

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LIVESTOCK CATTLE AS PREDICTOR OF TRANSMISSION OF SCHISTOSOMIASIS IN NIGERIA

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A SEMI-AUTOMATED SCOPING REVIEW OF MICROPLASTIC CONTAMINATION IN FOOD AND WATER BANGLADESH PERSPECTIVE

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ASSESSING FAECAL CONTAMINATION IN SOILS OF INFORMAL SETTLEMENTS- A COMPARATIVE STUDY OF TRADITIONAL SOIL TESTING AND INNOVATIVE BOOTSOCK TECHNIQUE

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ASSESSING THE IMPLEMENTATION OF WASH INTERVENTIONS IN A COASTAL DISTRICT WITH HIGH DIARRHOEA BURDEN, GHANA, 2022

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DETECTION OF SARS-COV-2 AND ENTERIC PATHOGENS IN MEGACITY DHAKA WASTEWATER; FINDINGS FROM AN ENVIRONMENTAL SURVEILLANCE PLATFORM

Mahbubur Rahman[1], Md Rezaul Hasan[1], Md Ziaur Rahman[1], Mohammed Ziaur Rahman[2], Md Nuhu Amin[1], Rehnuma Haque Sarah[1], Md Shariful Islam[3], Afroza Jannat Suchana[1], Mohammad Enayet Hossain[2], Monju Mia[2], Suraja Raj[4], Pengbo Liu[4], Yuke Wang[4], Marlene Wolfe[4], Stephen Patrick Hilton[4], Chloe Svezia[4], Mahbubur Rahman[5], Ahmed Nawsher Alam[5], Zakir Hossain Habib[5], Aninda Rahman[6], Alamgir Hossain[7], Megan B. Diamond[8], Tahmina Shirin[5], Christine L. Moe[4]
[1]Environmental Interventions Unit, Infectious Diseases Division, International Center for Diarrheal Disease Research, Bangladesh (icddr,b), Dhaka1212, Bangladesh, [2]One Health Laboratory, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka1212, Bangladesh, [3]School of Public Health, University of Queensland, Brisbane, Australia, [4]The Center for Global Safe Water, Sanitation, and Hygiene at Emory University, Atlanta, GA, United States, [5]Institute of Epidemiology, Disease Control, and Research (IEDCR), Dhaka1212, Bangladesh, [6]Communicable Disease Control (CDC) Program, Directorate General of Health Services (DGHS), Dhaka1212, Bangladesh, [7]Dhaka Water Supply and Sewerage Authority (DWASA), Dhaka1215, Bangladesh, [8]The Rockefeller Foundation, New York, NY, United States

6402

FINDINGS OF ENVIRONMENTAL SURVEILLANCE FOR SARS-COV-2 AND ENTERIC PATHOGENS TRIGGER FUTURE PATH: LEARNING FROM A MEGACITY AND HUMANITARIAN SETTINGS IN BANGLADESH

Md Ziaur Rahman[1], Zakir Hossain Habib[2], Rezaul Hasan[1], Nuhu Amin[1], Rehnuma Haque[1], Md Shariful Islam[3], Afroza Jannat Suchana[1], Mohammed Ziaur Rahman[4], Mohammad Enayet Hossain[4], Mojnu Miah[4], Suraja Raj[5], Pengbo Liu[5], Yuke Wang[5], Marlene Wolfe[5], Stephen Patrick Hilton[5], Chloe Svezia[5], Mahbubur Rahman[2], Ahmed Nawsher Alam[2], Aninda Rahman[6], Alamgir Hossain[7], Mahbubur Rahman[1], Megan B. Diamond[8], Tahmina Shirin[2], Christine L Moe[5]
[1]Environmental Interventions Unit, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka-1212, Bangladesh, [2]Institute of Epidemiology, Disease Control, and Research (IEDCR), Dhaka, Bangladesh, [3]School of Public Health, University of Queensland, Brisbane, Australia, [4]One Health Laboratory, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka-1212, Bangladesh, [5]The Center for Global Safe Water, Sanitation, and Hygiene, Emory University, GA, United States, [6]Communicable Disease Control (CDC) Program, Directorate General of Health Services (DGHS), Dhaka-1212, Bangladesh, [7]Dhaka Water Supply and Sewerage Authority (DWASA), Dhaka-1212, Bangladesh, [8]The Rockefeller Foundation, New York City, NY, United States

6403

HOUSEHOLD COPING STRATEGIES DUE TO WATER INTERMITTENCY: A MIXED-METHODS STUDY IN NORTHWESTERN ECUADOR

Andrea Sosa-Moreno[1], Gwenyth O. Lee[2], Karen Levy[3], Josefina Coloma[4], Joseph N.S Eisenberg[1]
[1]University of Michigan, Ann Arbor, MI, United States, [2]Rutgers Global Health Institute, New Brunswick, NJ, United States, [3]University of Washington, Seattle, WA, United States, [4]University of California-Berkeley, Berkeley, CA, United States

CTropMed Exam Committee Meeting

Wright, Third Floor, West Tower
Friday, October 20, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

Late-Breaker Abstract Session 74

Late-Breakers in Clinical and Applied Sciences

Grand Hall J - Ballroom Level (East Tower)
Friday, October 20, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

This session does not carry CME credit.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR
Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

Sharon Tennant
University of Maryland School of Medicine, Baltimore, MD, United States

Late-Breaker Abstract Session 75

LIVE STREAMING

Late-Breakers in Malaria

Grand Ballroom CDEF - Ballroom Level (East Tower)
Friday, October 20, 12:15 p.m. - 1:30 p.m. U.S. Central Time Zone

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR
Giselle Lima-Cooper
Indiana University, Indianapolis, IN, United States

Mahamadou Diakite
MRTC-USTTB, Bamako, Mali

Poster Session B Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Friday, October 20, 1:45 p.m. – 4 p.m. United States Central Time Zone

Symposium 76

ASTMH Committee on Global Health (ACGH) Symposium I: Effectively Communicating Sensitive Issues in Global Health: Lessons from the Field

Grand Ballroom A - Ballroom Level (East Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

Over the past few years, communication has become an integral part of successful global health campaigns. Political perspectives have become key parts of the discussion around sensitive global health topics such as climate change and vaccine mandates, to the point that traditional methods of presenting and using results, evidence to guide public health decision making are no longer sufficient. Communicating key public health messages to the general public requires different skill sets than presenting to scientific audiences, and recent events like the COVID-19 pandemic have shown that these are skills many professionals in global health are lacking. In this symposium we will discuss methods for effectively communicating results and evidence to the public, governments, and health-care professionals by highlighting three topics that can be considered sensitive: pandemic preparedness, gene-drive technology, climate change; as well as discussions around best practices for communicating general global health themes.

CHAIR
James Colborn
Clinton Health Access Initiative, Evergreen, CO, United States

Yazoume Ye
ICF International, Calverton, MD, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
COMMUNICATING THE SCIENCE OF PANDEMIC PREPAREDNESS
Catherine Kyobutungi
APHRC, Nairobi, Kenya

2 p.m.
REGULATING THE DEVELOPMENT AND TESTING OF GENETICALLY MODIFIED MOSQUITOES FOR MALARIA CONTROL AND ELIMINATION IN AFRICA
Richard Mukabana
African Institute for Development Policy, Nairobi, Kenya

2:05 p.m.
SCIENCE COMMUNICATION AND ENGAGEMENT TO EFFECTIVELY TRANSLATE THE INTERSECTION BETWEEN CLIMATE CHANGE AND TROPICAL MEDICINE
Maria Elena Bottazzi
Baylor College of Medicine, Houston, TX, United States

2:10 p.m.
LESSONS IN COMMUNICATING PUBLIC HEALTH FROM A CAREER WORKING IN THE MINISTRY OF HEALTH
Devanand Moonasar
WHO, Johannesburg, South Africa

2:15 p.m.
ACGH ANNUAL BUSINESS MEETING
James Colborn
Clinton Health Access Initiative, Inc., Evergreen, CO, United States

2:45 p.m.
NETWORKING RECEPTION

Symposium 77

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium I: Molecular Mechanisms of Transitions Between Acute and Chronic Parasitic Infections

Grand Ballroom B - Ballroom Level (East Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

This session does not carry CME credit.

Many parasites of human and veterinary importance cycle between acute and chronic stages. Acute stages typically involve rapid growth and parasite expansion after the initial infection with the parasite. This stage can either be mild and asymptomatic or can cause morbidity and mortality of the host. During the acute stages, the immune system is triggered and mounts an effective immune response limiting the number of parasites. The initial type of immune response can determine if an infection is cleared or becomes chronic, or if there is potential tissue damage to the host.

The chronic stages enable parasites to persist within their host. Often, parasites can evade the host's defenses by modulating the host immune system or forming dormant stages such as cysts. While parasites are in the acute stages, they are difficult to treat with drugs as most metabolic pathways are inactive and cyst walls are thick and cannot easily be penetrated by a compound. Chronic infections can be asymptomatic (Toxoplasma, *Plasmodium*) or highly lethal if untreated (visceral Leishmaniasis). Patients with immune suppression either due to another infection such as HIV or through the administration of drug therapy for organ transplants or leukemia, are more likely to have reactivation of the chronic disease to the acute phase.

This symposium will address the biological factors that are determining the differentiation from one stage to another in a diverse set of parasites. We will first hear about work being done to fill gaps in the life cycle of Trichomonas vaginalis, with a particular focus on the cyst stage. This important work sheds light on a previously unknown chronic stage of the T. vaginalis parasite that has only recently been identified. And while we have known for some time that Toxoplasma gondii has a chronic phase, the signals that promote the differentiation into chronic stages have not been well understood. Here, we will learn about chronicity in the parasite T. gondii, and how a positive feedback loop controls the differentiation of these parasites into chronic stages. Shifting away from the parasite biology toward the host response, we will next delve into the host-side with a talk on immunoregulation and tissue homeostasis in the context of both acute and chronic Chagas disease (infection with Trypanosoma cruzi). Finally, we will end with a discussion of what can be done about these chronic stages from a treatment perspective, as we hear a talk about dormancy in *Plasmodium vivax*, and strategies that can be used to successfully eliminate these dormant stages from the body.

CHAIR
Regina Cordy
Wake Forest University, Winston Salem, NC, United States

Sebastian Lourido
Massachusetts Institute of Technology Whitehead Institute for Biomedical Research, Cambridge, MA, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
FILLING THE GAPS IN THE LIFE CYCLE OF TRICHOMONAS VAGINALIS: CHARACTERIZATION OF CYSTS
Utpal Tatu
Indian Institute of Science, Bangalore, India

2:15 p.m.
A POSITIVE FEEDBACK LOOP CONTROLS TOXOPLASMA CHRONIC DIFFERENTIATION
Sebastian Lourido
Massachusetts Institute of Technology Whitehead Institute for Biomedical Research, Cambridge, MA, United States

2:35 p.m.
IMMUNOREGULATION OF CELLULAR IMMUNITY AND TISSUE HOMEOSTASIS DURING ACUTE AND CHRONIC CHAGAS DISEASE
Eva Virginia Acosta Rodriguez
National University of Cordoba, Argentina, Cordoba, Argentina

2:55 p.m.
***PLASMODIUM* DORMANCY: KILLING MECHANISMS AND DRUGGABLE TARGETS**
Erika Flannery
Novartis Institutes for BioMedical Research, Emeryville, CA, United States

3:15 p.m.
NETWORKING RECEPTION

Symposium 78

Community Engagement and Involvement in Control and Prevention of Cutaneous Leishmaniasis: The ECLIPSE Experience

Grand Hall J - Ballroom Level (East Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

The control and prevention of neglected tropical diseases (NTDs) have conventionally focused on the utilization of biomedical interventions. However, with the growing emphasis on equity in healthcare and the adoption of a decolonized perspective in global health, community engagement and involvement (CEI) has emerged as a crucial component in global health research. Despite the widespread recognition of the importance of CEI, its

actual implementation within healthcare programs and research projects is often hindered by a lack of understanding and expertise. The ECLIPSE program is a five-year global health initiative aimed at improving the patient journey for those affected by cutaneous leishmaniasis (CL) and reducing stigma in underserved communities in Brazil, Ethiopia, and Sri Lanka. The program is a multidisciplinary collaboration involving over 60 researchers, including anthropologists, parasitologists, clinicians, psychologists, disease specialists, and public health researchers, and brings together expertise in leishmaniasis and social sciences from an international, cross-cultural perspective. The ECLIPSE team employs a combination of qualitative and quantitative methods, informed by ethnographic and anthropological theories, to gain a comprehensive understanding of the experiences, views, and perspectives of affected individuals, their communities, and healthcare professionals. These insights are now informing bespoke interventions, including the development of community education campaigns to increase disease awareness and reduce stigma, as well as training packages for healthcare professionals. The ECLIPSE research process, including design, implementation, and evaluation, is co-developed in each country using a unique CEI approach. Comparison of approaches adopted in three different countries shows that while a common model could be feasible to initiate CEI work, context-specific ongoing iterative adaptations are required during the whole project life cycle to enable the impact of the interventions to be sustainable. While traditional research methodologies such as clinical trials may provide the best evidence for biomedical interventions, broader public health interventions that aim to effect context-specific behavior change often necessitate ongoing adaptation of both the research process and interventions in line with broader societal and political changes in countries and communities. The lessons learned from the ECLIPSE program on the successful adaptation of novel methodologies based on the CEI approach, during the COVID-19 pandemic in three different country-specific crisis situations, will provide valuable insights into the utilization of CEI in global health research.

CHAIR

Suneth Agampodi
Rajarata University of Sri Lanka, Saliyapura, Sri Lanka

Helen P. Price
Keele University, Newcastle-under-Lyme, United Kingdom

1:45 p.m.
INTRODUCTION

1:55 p.m.
INTRODUCTION TO THE ECLIPSE PROGRAM AND A DECOLONIZED APPROACH TO COMMUNITY ENGAGEMENT AND INVOLVEMENT (CEI)

Helen P. Price
Keele University, Newcastle-under-Lyme, United Kingdom

2:15 p.m.
THE ECLIPSE CEI APPROACH IN BRAZIL: EMPOWERING COMMUNITIES DURING A PANDEMIC

Paulo R. Machado
Federal University of Bahia, Salvador, Brazil

2:35 p.m.
THE ECLIPSE CEI APPROACH IN TIGRAY, ETHIOPIA DURING CONFLICT

Shewaye Belay Tessema
Mekelle University, Mekelle, Ethiopia

2:55 p.m.
THE ECLIPSE CEI APPROACH IN SRI LANKA: COMBINING ARTS AND HEALTH TO RAISE AWARENESS OF CUTANEOUS LEISHMANIASIS

Suneth Agampodi
Rajarata University of Sri Lanka, Saliyapura, Sri Lanka

LIVE STREAMING

Scientific Session 79

Viruses - Epidemiology and Transmission Biology

Grand Ballroom CDEF - Ballroom Level (East Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

CHAIR

Matthew Aliota
University of Minnesota, St. Paul, MN, United States

Rachel Fay
State University of New York Albany, Albany, NY, United States

1:45 p.m. 6404

DENGUE SEROEPIDEMIOLOGY RELATED TO DEFORESTATION RATES IN RURAL VILLAGES OF THE PERUVIAN AMAZON COMMUNITIES

Edson J. Ascencio[1], Luca Nelli[2], Isabel Byrne[2], Monica Hill[2], Elin Dumont[2], Lynn Gringnard[2], Kevin Tetteh[2], Lindsey Wu[2], Alejandro Llanos-Cuentas[3], Chris Drakeley[2], Gillian Stresman[2], Gabriel Carrasco-Escobar[1]
[1]Institute of Tropical Medicine 'Alexander von Humboldt', Universidad Peruana Cayetano Heredia, Lima, Peru, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

2 p.m. 6405

SPATIOTEMPORAL MODELLING TO INVESTIGATE THE IMPACT OF CLIMATE AND EXTREME WEATHER EVENTS ON ARBOVIRUS TRANSMISSION IN BRAZIL

Victoria M. Cox[1], Wes Hinsley[1], Megan O'Driscoll[2], Felipe Campos de Melo Iani[3], Nuno R. Faria[4], Samir Bhatt[5], Ilaria Dorigatti[1]
[1]MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College London, London, United Kingdom, [2]Department of Genetics, University of Cambridge, Cambridge, United Kingdom, [3]Laboratório de Genética Celular e Molecular, Universidade Federal de Minas Gerais; Laboratório Central de Saúde Pública, Fundação Ezequiel Dias, Belo Horizonte, Brazil, [4]MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College London, London, United Kingdom; Department of Biology, University of Oxford, Oxford, United Kingdom; Institute of Tropical Medicine, University of São Paulo, São Paulo, Brazil, [5]MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College London, London, United Kingdom; Section of Epidemiology, Department of Public Health, University of Copenhagen, Copenhagen, Denmark

2:15 p.m.

6406

PRIOR ZIKA VIRUS INFECTION INCREASES RISK OF SUBSEQUENT SYMPTOMATIC INFECTION BY DENGUE VIRUS SEROTYPES 2 AND 4 BUT NOT SEROTYPES 1 AND 3

Jose Victor Zambrana[1], Chloe M. Hasund[2], Rosemary A. Aogo[2], Sonia Arguello[3], Cesar Narvaez[3], Karla Gonzalez[3], Damaris Collado[3], Tatiana Miranda[3], Guillermina Kuan[4], Angel Balmaseda[5], Leah Katzelnick[2], Eva Harris[6]

[1]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, [2]Viral Epidemiology and Immunity Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [3]Sustainable Sciences Institute, Managua, Nicaragua, [4]Centro de Salud Sócrates Flores Vivas, Ministerio de Salud, Managua, Nicaragua, [5]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, [6]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

2:30 p.m.

6407

INVESTIGATING THE POTENTIAL OF DENGUE AND ZIKA VIRUS TO ESTABLISH A SYLVATIC TRANSMISSION CYCLE IN THE NEOTROPICS THROUGH A MODELING LENS

Hélène Cecilia[1], Benjamin M. Althouse[2], Sasha R. Azar[3], Shannan L. Rossi[3], Nikos Vasilakis[3], Kathryn A. Hanley[1]

[1]New Mexico State University, Las Cruces, NM, United States, [2]University of Washington, Seattle, WA, United States, [3]University of Texas Medical Branch, Galveston, TX, United States

2:45 p.m.

6408

INVESTIGATING THE VECTOR COMPETENCE OF A SCOPE OF MOSQUITO SPECIES IN THE TRANSMISSION OF GETAH VIRUS

Faustus A. Azerigyik[1], Astri Nur Faizah[2], Daisuke Kobayashi[2], Michael Amoa-Bosompem[3], Ryo Matsumura[2], Izumi Kai[2], Toshinori Sasaki[2], Yukiko Higa[2], Haruhiko Isawa[2], Shiroh Iwanaga[4], Tomoko Ishino[1]

[1]Tokyo Medical and Dental University, Bunkyo-ku, Japan, [2]National Institute of Infectious Diseases, Shinjuku-ku, Japan, [3]University of Tennessee., Knoxville., TN, United States, [4]Research Institute for Microbial Diseases, Osaka University., Suita, Osaka., Japan

3 p.m.

6409

EXPOSURE TO WEST NILE VIRUS AND STRAIN-SPECIFIC DIFFERENCES SHAPE TRANSMISSION BYCX. PIPIENSUNDER CLIMATE CHANGE

Rachel Fay[1], Mauricio Cruz-Loya[2], Elyse Banker[3], Jessica Stout[3], Anne Payne[3], Erin Mordecai[2], Alexander Ciota[3]

[1]School of Public Health, State University of New York Albany, Albany, NY, United States, [2]Biology Department, Stanford University, Stanford, CA, United States, [3]Arbovirus Laboratory, Wadsworth Center, New York State Department of Health, Slingerlands, NY, United States

3:15 p.m.

6410

IDENTIFICATION OF ZIKA VIRUS GENES INVOLVED IN MOSQUITO TRANSMISSIBILITY

Shiho Torii[1], Alicia Lecuyer[1], Caroline Manet[1], Matthieu Prot[1], Cheikh T. Diagne[2], Oumar Faye[2], Ousmane Faye[2], Amadou A. Sall[2], Etienne Simon-Lorière[1], Xavier Montagutelli[1], Louis Lambrechts[1]

[1]Institut Pasteur, Paris, France, [2]Institut Pasteur de Dakar, Dakar, Senegal

Scientific Session 80

Kinetoplastida and Other Protozoa: Genomics, Proteomics and Metabolomics, Molecular Therapeutic Targets. Treatment, Drug Delivery, Drug Repurposing and Drug Discovery

Grand Hall K - Ballroom Level (East Tower)

Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

CHAIR

Frederick S. Buckner
University of Washington, Seattle, WA, United States

Alyse Wheelock
Boston University Medical Center, Boston, MA, United States

1:45 p.m.

6411

CRYPTOSPORIDIUM PARVUM: THIOREDOXIN REDUCTASE ACTS AS THE PRIMARY REGULATOR OF GLUTATHIONE AND THIOREDOXIN REDOX PATHWAYS AND IS A TARGET FOR DRUG DISCOVERY FOR CRYPTOSPORIDIOSIS

Jala Bogard[1], Federica Gabriele[2], Matteo Ardini[2], Marta Palerma[2], Xian-Ming Chen[1], Francesco Angelucci[2], David Williams[1]

[1]Rush University Medical Center, Chicago, IL, United States, [2]University of L'Aquila, L'Aquila, Italy

2 p.m.

6412

PROGRESS IN DEVELOPING METHIONYL-TRNA SYNTHETASE INHIBITORS FOR CHAGAS DISEASE

Frederick S. Buckner, Zhongsheng Zhang, Aisha Mushtaq, John R. Gillespie, Zackary M. Herbst, Sayaka Shibata, Erkang Fan
University of Washington, Seattle, WA, United States

2:15 p.m.

6413

METABOLOMIC ANALYSIS REVEALS A NOVEL IMMUNOMODULATORY ROLE OF LYSOPHOSPHATIDYLCHOLINES IN IMMUNIZATION WITH A GENETICALLY MODIFIED LIVE ATTENUATED PARASITIC VACCINE

Parna Bhattacharya[1], Jinchun Sun[2], Nazli Azodi[1], Hannah Markle[1], Sreenivas Gannavaram[1], Richard Beger[2], Hira Nakhasi[1]

[1]FDA, Silver Spring, MD, United States, [2]FDA, Jefferson, AR, United States

2:30 p.m.

6414

NEW TRYPANOSOME GENOMES DEMONSTRATE THE CO-EVOLUTIONARY RELATIONSHIP BETWEEN ENERGY SOURCE AND SURVIVAL STRATEGY

Ross Stuart Low[1], Kevin Tyler[2], Neil Hall[1]

[1]The Earlham Institute, Norwich, United Kingdom, [2]University of East Anglia, School of Medicine, Norwich, United Kingdom

2:45 p.m.

6415

FACING ADVERSITY: CHAGAS DISEASE TREATMENT TOLERABILITY AND ADVERSE EVENTS AT AN ACADEMIC SAFETY-NET HOSPITAL IN NEW ENGLAND

Alyse Wheelock[1], Katherine Reifler[1], Alejandra Salazar[2], Samantha Hall[3], Natasha Hochberg[2], Davidson H. Hamer[3], Daniel Bourque[1]

[1]Boston University Medical Center, Boston, MA, United States, [2]Boston Medical Center, Boston, MA, United States, [3]Boston University, Boston, MA, United States

3 p.m.

6416

INTRA-SPECIES GENETIC CLASSIFICATION OF ENTEROMONAS SP. DETECTED FROM HUMAN AND ANIMAL HOSTS IN INDONESIA

Siti Arifah Lacante[1], Chuanhao Jiang[1], Tetsushi Mizuno[1], Din Syafruddin[2], Masaharu Tokoro[1]
[1]Kanazawa University, Kanazawa, Japan, [2]Universitas Hasanuddin, Makassar, Indonesia

3:15 p.m.

6417

CHEMICAL AND GENETIC INVESTIGATIONS ON LEISHMANIA DEXD/H-BOX PROTEINS AS POTENTIAL DRUG TARGETS AGAINST LEISHMANIASIS

Yosser zina Abdelkrim É. Guediche[1], Emna Harigua[1], Imen Bassoumi-Jamoussi[1], Molka Mokdadi[1], Mourad Barhoumi[1], Josette Banroques[2], Lucien Crobu[3], Yvon Sterckers[3], Khadija Essafi-Benkhadir[1], Michael Nilges[4], Arnaud Blondel[4], N. Kyle Tanner[2], Ikram Guizani[1]
[1]Institut Pasteur de Tunis, Tunis, Tunisia, [2]Institut De biologie Physico-chimique, Paris, France, [3]C.H.U. de Montpellier, Montpellier, France, [4]Institut Pasteur de Paris, Paris, France

Scientific Session 81

Filariasis – Clinical, Immunology, and Diagnosis

Grand Hall L - Ballroom Level (East Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

CHAIR
Rachel Pietrow
NIH, Bethesda, MD, United States

Benoit Dembele
Helen Keller International, Regional Office for Africa, Dakar, Senegal

1:45 p.m.

6418

EFFICACY OF MOXIDECTIN VS. IVERMECTIN COMBINATION TREATMENTS FOR BANCROFTIAN FILARIASIS IN COTE D'IVOIRE: PRELIMINARY 24 MONTH RESULTS

Benjamin G. Koudou[1], Philip J. Budge[2], Allassane F. Ouattara[1], Pascal T. Gabo[3], Peter U. Fischer[2], Christopher L. King[4], Gary J. Weil[2], Catherine M. Bjerum[4]
[1]Centre Suisse de Recherche Scientifique, Abidjan, Côte D'Ivoire, [2]Washington University, St. Louis, MO, United States, [3]Hôpital Générale d'Agboville, Agboville, Côte D'Ivoire, [4]Case Western Reserve University, Cleveland, OH, United States

2 p.m.

6419

EFFICACY AND SAFETY OF ALBENDAZOLE 400 AND 800 MG ON HYPERMICROFILAREMIC LOIASIS : PRELIMINARY RESULTS OF A PHASE IIB, RANDOMIZED, SINGLE-BLIND CLINICAL TRIAL IN NORTHERN GABON

Noé Patrick M'Bondoukwé, Luccheri Ndong Akomezogho, Jacques Mari Ndong Ngomo, Bridy Chesly Moutombi Ditombi, Roger Hadry Sibi Matotou, Meredith Flore Ada Mengome, Denise Patricia Mawili Mboumba, Marielle Karine Bouyou-Akotet
Université des Sciences de la Santé du Gabon, Owendo, Gabon

2:15 p.m.

6420

DEVELOPMENT OF AN ELISA TO DETECT ANTIBODY TO ONCHOCERCA VOLVULUS INFECTION USING A MAMMALIAN EXPRESSED RECOMBINANT ANTIGEN OV16

Sylvia Ossai, Eric S. Elder, Won Y. Kimberly, William E. Secor, Sukwan Handali
Centers for disease control and Prevention, Atlanta, GA, United States

2:30 p.m.

6421

LABORATORY EVALUATION OF ONCHOCERCIASIS RAPID DIAGNOSTIC TESTS (RDTS)

Eric S. Elder[1], Marco Biamonte[2], Lily Sullins[2], Pete Augostini[1], William E. Secor[1], Kimberly Y. Won[1]
[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Drugs and Diagnostics for Tropical Diseases, San Diego, CA, United States

2:45 p.m.

6422

WB 5, A NOVEL BIOMARKER FOR MONITORING EFFICACY AND SUCCESS OF MASS DRUG ADMINISTRATION PROGRAMS FOR WUCHERERIA BANCROFTI ELIMINATION

Rachel E. Pietrow, Thomas B. Nutman, Sasisekhar Bennuru
National Institutes of Health, Bethesda, MD, United States

3 p.m.

6423

PROTEIN INVENTORY OF ONCHOCERCA VOLVULUS NEOPLASMS IDENTIFIED BY DEEP VISUAL PROTEOMICS

Kerstin Fischer[1], Lucia S. Di Maggio[1], Bruce A. Rosa[1], Makedonka Mitreva[1], Jessica K. Lukowski[1], Minsoo Son[1], Byoung-Kyu Cho[1], Young Ah Goo[1], Nicholas Opoku[2], Gary J. Weil[1], Peter U. Fischer[1]
[1]Washington University School of Medicine, St. Louis, MO, United States, [2]University of Health and Allied Sciences, Ho, Ghana

3:15 p.m.

6424

ASSOCIATION BETWEEN ALTERED COGNITION AND LOAISIS: FIRST EVIDENCE FROM A CROSS-SECTIONAL STUDY IN A RURAL AREA OF THE REPUBLIC OF CONGO

Thomas Checkouri[1], Francois Missamou[2], Sebastien D. S. Pion[3], Paul Bikita[2], Marlhand C. Hemilembolo[2], Michel Boussinesq[3], Cédric B. Chesnais[3], **Jérémy T. Campillo**[3]
[1]AP-HP, Paris, France, [2]PNLO, Brazzaville, Republic of the Congo, [3]Institut de Recherche pour le Développement, Montpellier, France

Scientific Session 82

Schistosomiasis II

Plaza Ballroom - Lobby Level (East Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

CHAIR
Charles B. Delahunt
Global Health Labs, Seattle, WA, United States

Adebayo Molehin
Midwestern University, Glendale, AZ, United States

1:45 p.m.

6425

DEVELOPING NOVEL FLATWORM ION CHANNEL LIGANDS TO TREAT NEGLECTED TROPICAL DISEASES

Daniel J. Sprague[1], Sang-Kyu Park[1], Claudia M. Rohr[1], Simone Häberlein[2], Jonathan S. Marchant[1]
[1]Medical College of Wisconsin, Milwaukee, WI, United States, [2]Institute of Parasitology, Justus Liebig University Giessen, Giessen, Germany

2 p.m. 6426

NOVEL INHIBITORS OF THIOREDOXIN GLUTATHIONE REDUCTASE WITH SCHISTOSOMICIDAL ACTIVITY

Samuel Y. Aboagye[1], Valentina Z. Petukhova[2], Matteo Ardini[3], Rachel P. Lullo[1], Margaret Byrne[1], Lucy M. Martin[1], Gregory Effantin[4], Wai-Li Ling[4], Gregory RJ Thatcher[5], Francesco Angelucci[3], Pavel A. Petukhov[6], David Williams[1]

[1]Rush University Medical Center, Chicago, IL, United States, [2]University of Illinois at Chicago, Chicago, IL, United States, [3]University of L'Aquila, L'Aquila, Italy, [4]University of Grenoble Alpes, Grenoble, France, [5]University of Arizona, Tucson, AZ, United States, [6]University of Illinois at Chicago, Chicago, Chicago, IL, United States

2:15 p.m. 6427

HIGH SENSITIVITY BUT LOW SPECIFICITY OF FEMALE GENITAL SCHISTOSOMIASIS SYMPTOMS AND RISK FACTORS DIAGNOSTIC TOOL ON GENITAL LESIONS ASSOCIATED WITH FEMALE GENITAL SCHISTOSOMIASIS IN ADOLESCENT GIRLS AND WOMEN IN MASWA DISTRICT, TANZANIA

Gladys Mbwanji, Humphrey Mazigo

Catholic University of Health and Allied Sciences, Mwanza, United Republic of Tanzania

2:30 p.m. 6428

OPTIMISATION OF THE DNA DIPSTICK AS A RAPID EXTRACTION METHOD FOR *S. JAPONICUM* IN INFECTED MICE SAMPLES AND SPIKED HUMAN CLINICAL SAMPLES

Oyime Poise Aula[1], Donald P. McManus[1], Malcolm K. Jones[2], Hong You[1], Pengfei Cai[1], Mary Duke[1], Catherine A. Gordon[1]

[1]QIMR Berghofer Medical Research Institute, Herston, Australia, [2]University of Queensland, Gatton, Australia

2:45 p.m. 6429

ACCEPTABILITY OF GENITAL SELF-SAMPLING FOR THE DIAGNOSIS OF FEMALE GENITAL SCHISTOSOMIASIS IN HARD-TO-REACH COMMUNITIES

Emmanuel Timmy Donkoh[1], Edward T. Dassah[2], Samuel Fosu Gyasi[1], Oksana Debrah[3], Dodzi Amelor[4], Richard Asmah[5], Ahmed Ramseyer[6], Kwame O. Boadu[7], Emma Donkoh[8], Angelina Kantam[1], Lois Kyeretwie[1], Esther Owusu Yawson[1], Nathanael Agyapong-Apraku[1], Josephine Opoku-Agyemang[1]

[1]University of Energy and Natural Resources, Sunyani, Ghana, [2]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [3]University of Cape Coast, Cape Coast, Ghana, [4]Ghana Health Service, Accra, Ghana, [5]University of Health and Allied Sciences, Ho, Ghana, [6]Ghana Health Service, Yeji, Ghana, [7]Ghana Health Service, Kumasi, Ghana, [8]Ghana Health Service, Tain, Ghana

3 p.m. 6430

EXPANDING FEMALE GENITAL SCHISTOSOMIASIS (FGS) LEARNING AND APPLICATION THROUGH AN ONLINE TRAINING FOR MIXED CADRES OF HEALTH CARE WORKERS IN FRANCOPHONE AFRICA

Martha N. Mberu[1], Kelly Yotebieng[1], Isis Umbelino-Walker[2], Anastasia Pantelias[2], Julie Jacobson[2]

[1]The END Fund, New York, NY, United States, [2]Bridges to Development, Vashon, WA, United States

3:15 p.m. 6431

THE STATUS OF SCHISTOSOMIASIS AFTER A DECADE OF MASS DRUG ADMINISTRATION IN SIERRA LEONE

Ibrahim Kargbo-Labour[1], **Mohamed S. Bah**[2], Victoria Turay[2], Abdulai Conteh[1], Abdulai Koroma[1], Elisabeth Chop[3], Patricia Houck[3], Anna Phillips[4], Angela Weaver[3], Steven D. Reid[3]

[1]Neglected Tropical Diseases Program, Ministry of Health and Sanitation, Freetown, Sierra Leone, [2]Helen Keller International, Freetown, Sierra Leone, [3]Helen Keller International, New York, NY, United States, [4]FHI 360, Washington, DC, United States

Symposium 83

Reimagining the Continuum of Care for Severe Malaria Patients

Crystal Ballroom A - Lobby Level (West Tower)

Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

The diagnosis and management of severe malaria remains a challenge. It is important and deserves more attention. In 2021, an estimated 619,000 malaria related deaths occurred, mostly in children in sub-Saharan Africa. The standard treatment pathway for patients in remote areas, consisting of pre-referral intervention with artesunate rectal capsules, fol-lowed by appropriate severe malaria treatment with injectable artesunate at a referral health facility, and completed with a full ACT course, may not always be achievable. There has been a lively debate about the interpretation of data about the deployment of rectal artesunate as a pre-referral intervention. Updated guidance to countries is being developed and expected to be released by mid-2023, pending WHO review process. Translating current guidelines into practice is proving challenging in remote settings. The full treatment para-digm is not always feasible when access to primary healthcare facilities is limited due to factors such as lack of transport, availability of services, and cost. This symposium will provide an opportunity to learn about practical approaches and new ways to reimagine severe malaria case management in the continuum of care for severe malaria patients.

CHAIR

Hans Rietveld
Medicines for Malaria Venture, Geneva, Switzerland

Christine Manyando
Tropical Diseases Research Center, Ndola, Zambia

1:45 p.m.
INTRODUCTION

1:55 p.m.
UPDATED GUIDANCE FOR THE RESPONSIBLE DEPLOYMENT OF RECTAL ARTESUNATE AS A PRE-REFERRAL INTERVENTION FOR SEVERE MALARIA

Olugbenga Mokuolu
Management Sciences for Health, Arlington, VA, United States

2:15 p.m.
AN ALTERNATIVE PATHWAY FOR SEVERE MALARIA PATIENTS IN REMOTE AREAS "WHERE THERE IS NO DOCTOR" – REFLECTIONS FROM DRC AND ZAMBIA
Christine Manyando
Tropical Diseases Research Center, Ndola, Zambia

2:35 p.m.
NEW TARGET PRODUCT PROFILE FOR ANTIMALARIALS TO ADDRESS THE NEEDS OF PATIENTS WITH SEVERE MALARIA
Jane Achan
Malaria Consortium, Kampala, Uganda

2:55 p.m.
COUNTRY PERSPECTIVES ON THE NEW WHO RECOMMENDATION FOR POST-DISCHARGE MALARIA CHEMOPREVENTION IN PATIENTS WITH SEVERE ANEMIA
Titus Kwambai
Centre for Disease Control Kenya Malaria Programme, Kisumu, Kenya

Symposium 84

What's New in Clinical Tropical Medicine Literature?

Crystal Ballroom B - Lobby Level (West Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

Experts in Tropical Medicine and Travelers' Health base their decisions on the knowledge of disease epidemiology, clinical course, diagnostic tools, resistance patterns, and vaccine da-ta. This symposium will highlight recent studies on these aspects of Malaria, Yellow Fever, SARS-CoV-2 and Chikungunya virus.

CHAIR
Ivan A. Gonzalez
University of Miami, Miami, FL, United States

Lin H. Chen
Mount Auburn Hospital and Harvard Medical School, Cambridge, MA, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
WHAT'S NEW IN THE LITERATURE: SARS-COV-2?
Henry Wu
The Emory Clinic, Emory University, Atlanta, GA, United States

2:10 p.m.
WHAT'S NEW IN THE LITERATURE: MALARIA?
Bartholomew Ondigo
Egerton University, Nakuru, Kenya

2:35 p.m.
WHAT'S NEW IN THE LITERATURE: YELLOW FEVER
J Erin Staples
U.S. Centers for Disease Control and Prevention, Fort Collins, CO, United States

3 p.m.
WHAT'S NEW IN THE LITERATURE: CHIKUNGUNYA?
Susan Hills
Centers for Disease Control and Prevention, Fort Collins, CO, United States

3:25 p.m.
MODERATOR, PANEL DISCUSSION
Lin H. Chen
Mount Auburn Hospital, Cambridge, MA, United States

Symposium 85

Bridging the "Know-Do-Gap": Using Implementation Science to Adapt Evidence-Based Interventions and Improve Their Uptake in Low-and-Middle-Income Coun-tries

Regency Ballroom A - Ballroom Level (West Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

Studies show that it takes an average of 17 years for evidence-based interventions (EBIs) to be implemented into routine clinical practice. This gap between what we "know" from available evidence and what we actually "do" in routine clinical care is particularly pro-nounced in low-and-middle income countries (LMICs). Most EBIs were developed in or by those in high-resource countries and may not consider or account for context such as healthcare infrastructure or resource limitations in LMICs. Implementation science aims to bridge this "know-do-gap" by providing rigorous scientific methods to adapt EBIs to differ-ent healthcare settings, identify barriers to EBI implementation, and develop strategies to overcome these barriers. Implementation science also provides structured approaches to assessing the success of implementation strategies by measuring implementation outcomes such as acceptability, feasibility, appropriateness, and cost-effectiveness. Implementation science provides implementation researchers and practitioners with the tools to adapt and test EBIs using contextually appropriate strategies that address individual, collective, and/or systemic barriers to care, optimizing EBIs to improve uptake, adoption, and health out-comes. This ultimately results in improved health equity for patients requiring health ser-vices relevant to the EBIs. In this symposium, we will use real-world examples to introduce and demystify the field of implementation science. To provide a broad introduction to this topic, we will highlight different aspects of implementation science across diverse practice sites and patient demographics. These include (1) developing and implementing HIV pre-vention and treatment programs for children living in Nigeria; (2) using qualitative research methods to assess organizational readiness for change and prioritize requirements for elec-tronic medical record rollout within cancer centers in African countries; (3) exploring how guidelines can be adapted to improve the uptake of evidence-based practices in China, and (4) assessing the cost-effectiveness of point-of-care diagnostics in Ugandan patients with advanced HIV. This symposium will introduce clinicians, researchers, program implement-ers, and policymakers to implementation science. It will also provide tools for assessing barriers to implementing EBIs, designing implementation strategies to overcome these bar-riers, and evaluating the effectiveness of these implementation strategies in improving EBI uptake/adoption. For clinicians and policymakers working in LMICs, this symposium intends to improve the understanding and

use of implementation science to facilitate integration of EBIs into routine clinical care, improving health outcomes in resource-limited settings.

CHAIR

Beth Thielen
University of Minnesota, Minneapolis, MN, United States

Elizabeth Anne Gulleen
Fred Hutchinson Cancer Center, Seattle, WA, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
UNDERSTANDING IMPLEMENTATION SCIENCE THROUGH THE LENS OF HIV PROGRAM DEVELOPMENT

Nadia A. Sam-Agudu
Institute of Human Virology Nigeria, Abuja, Nigeria

2:15 p.m.
IMPLEMENTABILITY OF AND IMPLEMENTATION STRATEGIES FOR CLINICAL PRACTICE GUIDELINES

Dong (Roman) Xu
Southern Medical University, Guangzhou, China

2:35 p.m.
COST-EFFECTIVENESS ANALYSIS TO INFORM INFECTION MANAGEMENT STRATEGIES FOR PATIENTS WITH HIV IN UGANDA

Radha Rajasingham
University of Minnesota, St Paul, MN, United States

2:55 p.m.
OPTIMIZING ELECTRONIC MEDICAL RECORD USAGE FOR CANCER CARE IN SUB-SAHARAN AFRICA

Johnblack Kabukye
Uganda Cancer Institute, Kampala, Uganda

3:15 p.m.
THE CASE FOR IMPLEMENTATION SCIENCE

Elizabeth Anne Gulleen
Fred Hutchinson Cancer Center, Seattle, WA, United States

Scientific Session 86

Pneumonia, Respiratory Infections and Tuberculosis I

Regency Ballroom B - Ballroom Level (West Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. U.S. Central Time Zone

CHAIR

Jasper Chan
The University of Hong Kong, Hong Kong, Hong Kong

Douglas Perkins
University of New Mexico, Albuquerque, NM, United States

1:45 p.m.
PRESENTATION BY BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP RECIPIENT

6432

DISCORDANT CIRCULATING AND MUCOSAL ANTIBODY RESPONSES ELICITED BY SARS-COV-2 INFECTION AND VACCINATION IN A LONGITUDINAL COHORT FROM BRAZIL

Mariam O. Fofana[1], Julio Silva[2], Nivison Nery Jr[3], Juan Pablo Aguilar Ticona[3], Valter Silva Monteiro[2], Emilia Andrade Belitardo[3], M. Catherine Muenker[1], Jaqueline Cruz[3], Renato Victoriano[3], Daiana Santos de Oliveira[3], Laiara Lopes dos Santos[3], Juliet Oliveira Santana[3], Ananias Sena do Aragão Filho[3], Adam Waickman[4], Ricardo Khouri[3], Matt D.T. Hitchings[5], Mitermayer G. Reis[3], Federico Costa[6], Carolina Lucas[2], Akiko Iwasaki[2], Derek Cummings[5], Albert I. Ko[1]
[1]Yale School of Public Health, New Haven, CT, United States, [2]Yale School of Medicine, New Haven, CT, United States, [3]Instituto Gonçalo Moniz (Fiocruz), Salvador, Brazil, [4]SUNY Upstate Medical University, Syracuse, NY, United States, [5]University of Florida, Gainesville, FL, United States, [6]Universidade Federal da Bahia, Salvador, Brazil

2 p.m.

6433

DIFFERENTIAL PROTEOME EXPRESSION IN A DIVERSE POPULATION OF HOSPITALIZED PATIENTS WITH COVID-19

Douglas J. Perkins[1], Qiuying Cheng[1], Clinton Onyango[1], Kristan Schneider[2], Ivy Hurwitz[1]
[1]University of New Mexico HSC, Center for Global Health, Albuquerque, NM, United States, [2]University of Applied Sciences Mittweida, Mittweida, Germany

2:15 p.m.

6434

EXTENSIVE TRANSMISSION OF SARS-COV-2 BQ.1 VARIANT IN A POPULATION WITH HIGH LEVELS OF HYBRID IMMUNITY

Juan P. Aguilar Ticona[1], Meng Xiao[2], Dan Li[3], Nivison Nery Jr[1], Matt Hitchings[4], Emília M. M. De Andrade Belitardo[5], Mariam O. Fofana[6], Renato Victoriano[5], Jaqueline Cruz[5], Laise Eduarda Paixão de Moraes[5], Icaro Morais Strobel[5], Jessica Jesus Silva[5], Ananias Sena do Aragão Filho[5], Guilherme S. Ribeiro[5], Mitermayer G. Reis[5], Federico Costa[1], Ricardo Khouri[5], Albert I. Ko[6], Derek A. T. Cummings[7]
[1]Instituto de Saúde Coletiva, Universidade Federal da Bahia, Salvador, Brazil, [2]Department of Laboratory Medicine, State Key Laboratory of Complex Severe and Rare Diseases, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China, [3]Public Health Emergency Center, Chinese Center for Disease Control and Prevention, Beijing, China, [4]Department of Biostatistics, University of Florida, Gainesville, FL, United States, [5]Instituto Gonçalo Moniz, Fundação Oswaldo Cruz, Ministério da Saúde, Salvador, Brazil, [6]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, [7]Department of Biology, University of Florida, Gainesville, FL, United States

2:30 p.m.

6435

PERFORMANCE OF A NOVEL REALTIME-TIME PCR DEVICE FOR DETECTION OF SARS-COV-2, RESPIRATORY SYNCYTIAL VIRUS AND INFLUENZA VIRUSES FROM AUGUST 2022 TO JANUARY, 2023

Michael Owusu[1], Bernard Nkrumah[2], Godfred Acheampong[3], Stephen Opoku Afriyie[3], Richard Larbi[3], Richard Owusu-Ansah[3], Chrysantus Kubio[4], Farouk Saeed[5], Nana Kwame Ayisi-Boateng[6], Eric Darko[6], James Frimpong[6], Veronica Bannor[7], Frederick Ayensu[8], Pawan Angra[9], Danielle T. Barradas[10]
[1]Kwame Nkrumah University of Science and Technology, Centre for Health System Strengthening, Kumasi, Ghana, [2]US Centers for Disease Control and Prevention, Kumasi, Ghana, [3]Centre for Health System Strengthening, Kumasi, Ghana, [4]Regional Health Directorate, Savannah Region, Kumasi, Ghana, [5]Regional Health Directorate, Ghana Health Service, Savannah Region, Kumasi, Ghana, [6]Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [7]Asokwa Children Hospital, Kumasi, Ghana, [8]HopeXchange, Kumasi, Ghana, [9]US Centers for Disease Control and Prevention, Georgia-Atlanta, GA, United States, [10]US Centers for Disease Control and Prevention, Atlanta, Ghana

2:45 p.m. 6436

PATHWAYS & MORTALITY OF UNDER 5 CHILDREN IDENTIFIED AS SEVERE CASES WITH ROUTINE PULSE OXIMETRY USED INTO THE INTEGRATED MANAGEMENT OF CHILDHOOD ILLNESS GUIDELINES AT PRIMARY HEALTH CENTERS IN WEST AFRICA, JUNE 2021 TO JUNE 2022

Gildas Boris HEDIBLE[1], Desire Neboua[2], Lucie Peters Bokol[1], Gildas ANAGO[2], Zineb ZAIR[1], Severin Lenaud[3], Honorat Agbeci[1], Abdoul Guaniyi SAWADOGO[4], Désiré KARGOUGOU[5], Bertrand Meda[6], Jacques Séraphin Kolié[7], Sandrine Busiere[8], Franck Lamontagne[9], Sarah Louart[10], Valery Ridde[11], Valériane Leroy[1]
[1]CERPOP UMR 1295 INSERM UT3, Toulouse, France, [2]ALIMA, Dakar, Senegal, [3]PACCI, Abidjan, Côte D'Ivoire, [4]Tdh, Ouagadougou, Burkina Faso, [5]ALIMA, Bamako, Mali, [6]SOLTHIS, Niamey, Niger, [7]ALIMA, Conakry, Guinea, [8]Tdh, Dakar, Senegal, [9]Solthis, Paris, France, [10]ALIMA & 8. University of Lille, CLERSE - Centre Lillois d'Études et de Recherches Sociologiques et Économiques, Dakar, Senegal, [11]IRD, Paris, France

3 p.m. 6437

IMPACT OF PNEUMOCOCCAL CONJUGATE VACCINES ON PENICILLIN RESISTANT S. PNEUMONIAE

Sebastian Loli[1], Theresa Ochoa[1], Stephen Bentley[2], Stephanie Lo[2]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Wellcome Sanger Institute, Hinxton, Cambridgeshire, United Kingdom

3:15 p.m. 6438

MULTIPLEXED ANTIGEN SPECIFIC ANTIBODY FC PROFILING FOR POINT OF CARE DIAGNOSIS OF TUBERCULOSIS

Sarah Ali, Preetham Peddireddy, Abhipsa Panigrahi, Asma Hashim, Aniruddh Sarkar
Georgia Institute of Technology, Atlanta, GA, United States

Symposium 87

American Committee of Medical Entomology (ACME) Symposium I: Invasive Arthropods and their Impact on Public Health

Regency Ballroom C - Ballroom Level (West Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

Among the current impacts of globalization and climate change is the introduction of ar-thropods to new areas, where they can thrive if the local conditions are adequate. Invasive arthropods can have a significant impact on human and animal health due to the establish-ment of ectoparasites, pathogen vectors, and vector borne diseases in new regions. The bed bugs Cimex lectularius and Cimex hemipterus are within the most important invasive pest ectoparasites that have resurged globally in the past decade, causing substantial human health impact and economic burden. In Africa, an Asian malaria vector, Anopheles stephen-si, continues expanding its geographical range, with the subsequent impact on local mosqui-to surveillance and control programs, as well as potential effects on urban malaria epidemi-ology. Likewise, one of the most extensively dispersed ticks worldwide, the brown dog tick (Rhipicephalus sanguineus s. l.), is capable of reaching high densities in urban areas and can transmit important zoonotic pathogens to humans. Although these and other invasive arthropods may already be established, tracking them is key for monitoring further expan-sion and controlling population densities. For this, there are successful citizen science initia-tives underway, such as NASA's GLOBE Observer Mosquito Habitat Mapper, which could be adapted to different species and local contexts. This symposium aims to present updated information on invasive arthropods, their impact on public health, and available tracking tools, in order to raise awareness on the need to understand, detect, and monitor invasive species to improve their control and reduce disease burden.

CHAIR
Adriana Troyo
Universidad de Costa Rica, San Jose, Costa Rica
Catherine A. Hill
Purdue University, West Lafayette, IN, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
CIMEX LECTULARIUS AND CIMEX HEMIPTERUS: PUBLIC HEALTH IMPACT OF BED BUGS
Jose E. Pietri
Sanford School of Medicine, University of South Dakota, Vermillion, SD, United States

2:15 p.m.
ANOPHELES STEPHENSI IN AFRICA: CURRENT DISTRIBUTION AND POTENTIAL IMPACT ON MALARIA
Fredros O. Okumu
Ifakara Heallth Institute, Ifakara, United Republic of Tanzania

2:35 p.m.
RHIPICEPHALUS SANGUINEUS SENSU LATO: CURRENT DISTRIBUTION AND VECTOR COMPETENCE
Filipe Dantas-Torres
Oswaldo Cruz Foundation (Fiocruz), Recife, Brazil

2:55 p.m.
NASA'S GLOBE OBSERVER MOSQUITO HABITAT MAPPER: THE ROLE OF CITIZEN SCIENCE IN MOSQUITO SURVEILLANCE, VECTOR RE-SEARCH AND LOCAL HEALTH
Russanne D. Low
Institute for Global Environmental Strategies, Arlington, VA, United States

3:15 p.m.
MODERATOR, PANEL DISCUSSION
Adriana Troyo
Universidad de Costa Rica, San Jose, Costa Rica

Symposium 88

Integrated Malaria Molecular Surveillance (iMMS) in Africa: Current Initiatives and Future Direction

Regency Ballroom D - Ballroom Level (West Tower)
Friday, October 20, 1:45 p.m. - 3:30 p.m. United States Central Time Zone

Interoperable data generated from multiple sources using robust integrated malaria molecu-lar surveillance (iMMS) is essential for sustainable control and elimination of malaria. This will enable country-led decision making, informed by a holistic understanding

of how the three genomes - human, parasite, and vector - respond to specific malaria control interven-tions. National laboratories and Regional hubs (where one laboratory supports multiple countries) will greatly facilitate integration and utilization of genomics data at national, re-gional, continental, and global context. Through active engagement with policy makers and National malaria control programs (NMCPs), the laboratories/ hubs will generate data that is routinely and better integrated into decision making. For hubs, each hub leader will catalyze their own discrete but complementary regional networks providing training to neighboring countries from sample collection to translation of genomic data into actionable knowledge by NMCPs. Currently, iMMS platforms supporting the generation, processing, storing and analysis of data and regional centers of genomic surveillance are limited and not widely implemented. There is an urgent need to bring genome experts, bioinformaticians, and data analysts together to address cross-cutting questions that deepen our understanding of iMMS and its potentials for supporting the ongoing malaria elimination strategies. Addressing these challenges collectively will support the development of key operational questions, ev-idence-based decisions, and policy-making by NMCPs and other stakeholders. The symposi-um will bring together iMMS experts to provide updates and discuss current efforts to de-velop sampling frameworks and build data generation and analysis capacity and regional hubs across Africa. It will detail how harmonized iMMS approaches can address challenges of procurement, training and data interoperability and give specific examples of implemen-tation in Ghana, The Gambia, Mali and Vietnam. It will highlight on integration with NMCPs for optimal use of the data to address relevant use cases and building regional networks for iMMS. Symposium attendees will hear from experts who are either implementing or sup-porting iMMS projects in Africa and South-East Asia. In addition, a diverse group of panel-lists made of experts will discuss and highlight the pressing issues and perspectives on ef-fective implementation of iMMS in malaria endemic countries. Experts will discuss and share experiences and lessons and offer recommendations for effective implementation of iMMS in malaria-endemic countries with varying landscapes of disease burden.

CHAIR

Deus S. Ishengoma
National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

Shavanthi Rajatileka
Wellcome Sanger Institute, Hinxton, United Kingdom

1:45 p.m.
INTRODUCTION

1:55 p.m.
ESTABLISHMENT AND IMPLEMENTATION OF AN INTEGRATED MALARIA PARASITE AND VECTOR MOLECULAR SURVEILLANCE IN GHANA (IMPAVES-GHANA)

Lucas Amenga-Etego
West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), University of Ghana,, Accra, Ghana

2:10 p.m.
ESTABLISHING A REGIONAL HUB FOR MALARIA GENOMIC SURVEILLANCE IN THE GAMBIA

Eniyou Cheryll Oriero
MRC Unit The Gambia Unit at the London School of Hygiene and Tropical Medicine., Banjui, Gambia

2:25 p.m.
PAN-AFRICAN OMICS AND BIOINFORMATICS INITIATIVES FOR MALARIA VECTOR RESEARCH AND SURVEILLANCE

Nsa Dada
Norwegian University of Life Sciences, Ski, GA, Norway

2:40 p.m.
INCREASING PUBLIC HEALTH VALUE OF MALARIA SURVEILLANCE DATA

Olivo Mioto
University of Oxford, Bangkok,, Thailand

2:55 p.m.
PANELIST

Nana A. Williams
Barcelona Institute for Global Health (ISGlobal), Hospital Clínic - Universitat de Barcelona, Barcelona, Spain

3:05 p.m.
MODERATOR, PANEL DISCUSSION

Deus Ishengoma
National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

Career Chats: Meet the Overseas Mentors

Grand Hall MN - Ballroom Level (East Tower)
Friday, October 20, 3 p.m. - 4 p.m. U.S. Central Time Zone

This session will provide trainees with an opportunity to learn directly from international re-searchers and other experts as a means to building on academic experiences to help them create networks that may aid in navigating future career paths. Trainees will have the opportunity to hear directly from established scientists, passionate about working with international students, at the forefront of global health and raise questions and ideas which could motivate their career ad-vancement at the global stage. The mentors will discuss their institutional global health portfolio and offer supportive strategies in navigating cultural, academic, and social challenges in overseas countries.

CHAIR

Bartholomew Ondigo
Egerton University, Nakuru, Kenya

Katherine Dobbs
Case Western Reserve University, Cleveland, OH, United States

PANELISTS

John H. Amuasi, Senior Lecturer in Global Health
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Katherine Dobbs
Case Western Reserve University, Cleveland, OH, United States

Andres G. Lescano, Associate Professor
Universidad Peruana Cayetano Heredia, Lima, Peru

Bartholomew Ondigo
Egerton University, Nakuru, Kenya

Liam Smeeth, Director
London School of Hygiene & Tropical Medicine, London, United Kingdom

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Friday, October 20, 3:15 p.m. - 4:15 p.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower)
Friday, October 20, 3:30 p.m. - 4 p.m. U.S. Central Time Zone

Richard Hunt Sculpture Tour

Meet in Hotel Lobby at Wacker Drive Entrance
Friday, October 20, 3:30 p.m. – 5 p.m.

Please join us along with the Green Task Force for a Chicago Art Walk featuring the work of Chicago's own famous sculptor, Richard Hunt. According to Kinshasha Holman Conwill, Director of the Studio Museum in Harlem, "Hunt has been a major figure in American Art for forty years. His sculpture and public commissions have earned a singular place in the cultural landscape and public imagi-nation." Jesus Lopes, a staff artist in Richard Hunt's Studio, will lead the tours. The tours will be held on Thursday, October 19 at 3:30 p.m. - 5 p.m. and Friday, October 20 at 3:30 p.m. - 5 p.m. Meet in the lobby of the Hyatt Regency Chicago at the Wacker Drive entrance.

Poster Session B Dismantle

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Friday, October 20, 4 p.m. - 6:15 p.m.

Symposium 89

ASTMH Committee on Global Health (ACGH) Symposium II: From Concept to Practice: How to Sustainably Democratize/Decolonize Global Health

Grand Ballroom A - Ballroom Level (East Tower)
Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

To achieve true and sustained decolonization of global health practices, actors and decision-makers need a better understanding of the processes, lessons learned along the way and the factors that can enable or interfere with decolonization of global health. This symposium will provide an overview of how global health can sustainably achieve decolonization from concept to practice. Presentations will address decolonizing global health education and research, decolonizing global organizations, country-level and community-level initiatives, and a call to action to be a proactive decolonizer. This symposium will enable and empower participants to play an active role in decolonizing global health, leading to better 'industry' policies and practices.

CHAIR

Maria Elena Bottazzi
Baylor College of Medicine, Houston, TX, United States

Katherine Wolf
JHPIEGO, Baltimore, MD, United States

4 p.m.
INTRODUCTION

4:10 p.m.
RECIPROCAL INNOVATION AS A STRATEGY TO DEMOCRATIZE GLOBAL HEALTH
Virginia Rowthorn
University of Maryland Baltimore Graduate School, Baltimore, MD, United States

4:25 p.m.
WHY IT IS CRITICAL TO ENSURE MEANINGFUL CONTRIBUTIONS OF LOCAL ACTORS AND COMMUNITIES AFFECTED BY MALARIA
Olivia Ngou
impact santé Afrique (ISA) & CS4ME platform, Yaoundé, Cameroon

4:40 p.m.
A COUNTRY PERSPECTIVE: WHY AND FOR WHOM ARE WE DECOLONIZING GLOBAL HEALTH?
Elizabeth Anne Bukusi
Center for Microbiology Research, KEMRI, Nairobi, Kenya

4:55 p.m.
PUTTING DECOLONIZATION AND LOCALIZATION INTO PRACTICE: AN INGO PERSPECTIVE?
Katherine Wolf
JHPIEGO, Baltimore, MD, United States

5:10 p.m.
A CALL TO ACTION: STRIVING TOWARD TRUE EQUITY IN GLOBAL HEALTH: AN AFRICAN PERSPECTIVE
Yap Boum
Institut Pasteur, Bangui, Central African Republic

Symposium 90

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium II: Trager, Trainees and Take-off!

Grand Ballroom B - Ballroom Level (East Tower)
Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

ACMCIP has bestowed the William Trager Award for Basic Parasitology since 2015. The award recognizes a fundamental breakthrough in molecular, cellular, or immunoparasitology. The Trager & Trainee Awardees Symposium exists to celebrate the present excellence, as well as highlight the bright future of molecular, cellular, and immunoparasitology research. This symposium will highlight the scientific work on the Trager awardee, along with the work of trainee and up-and-coming investigators in ACMCIP-related research. These include an ACMCIP Young Investigator awardee who works in parasitology as well as the winners of the ACMCIP Trainee 3-minute thesis competition. The coupling of both pivotal and emerging parasitology research will serve as both an educational and aspirational event for ACMCIP trainee members and the broader ASTMH membership.

CHAIR

Mahalia S. Desruisseaux
Yale University School of Medicine, New Haven, CT, United States

Dinah Nahid
Wake Forest University, Winston-Salem, NC, United States

4 p.m.
INTRODUCTION

4:10 p.m.
WILLIAM TRAGER AWARD FOR BASIC PARASITOLOGY: PRAZIQUANTEL: A NEW TARGET FOR AN OLD DRUG
Jonathan S. Marchant
Medical College of Wisconsin, Milwaukee, WI, United States

4:40 p.m.
TRAINEE AWARD WINNER: LOSS OF SIGLEC-7 CORRELATES WITH ENHANCED NATURAL KILLER CELL FUNCTION AND PROTECTION FROM MALARIA SYMPTOMS
Jenna Dick
Department of Medicine, Division of Infectious Diseases and International Medicine, University of Minnesota, Minneapolis, MN, United States

4:50 p.m.
TRAINEE AWARD WINNER: AFRICAN MALARIA PARASITES CARRY A C-TERMINAL DELETION IN PFAP2-G THAT HAS A MAJOR IMPACT ON SEXUAL COMMITMENT
Ritwik Singhal
Pennsylvania State University, State College, PA, United States

5 p.m.
TRAINEE AWARD WINNER
Claudia Rohr
Neurobiology and Anatomy, Medical College of Wisconsin, Milwaukee, WI, United States

5:10 p.m.
TAKE-OFF AWARD IN PARASITOLOGY RESEARCH: MAPPING THE GENOMIC LANDSCAPE OF MULTIDRUG RESISTANCE IN *P. FALCIPARUM* MALARIA AND ITS IMPACT ON PARASITE FITNESS
Sachel Mok
Columbia University Irving Medical Center, New York, NY, United States

5:30 p.m.
ACMCIP ANNUAL BUSINESS MEETING
Mahalia S. Desruisseaux
Yale University School of Medicine, New Haven, CT, United States

Symposium 91

From a Single Dataset to a Million Patients: Solutions to Pool and Harmonize IPD for Effective and Equitable Reuse of Data to Generate New Evidence in an Open Science Framework

Grand Hall J - Ballroom Level (East Tower)
Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

There is growing evidence of the improved statistical power of conducting individual-patient data (IPD) meta-analysis compared to aggregated meta-analysis. However, in order to do so, sharing, harmonizing and reusing data is a necessary step. There are increasing numbers of policies encouraging data sharing employed by funders and publishers. Actual practice however is still stagnating due to perceived and practical barriers. The Infectious Diseases Data Observatory (IDDO) has, with partners and collaborators from around the world, implemented solutions for many of the regulatory, ethical, and scientific hurdles that are routinely cited by researchers as reasons for a lack of sharing and reuse. These solutions include establishment of equitable group collaborations and implementation of DOIs to ensure credit and traceability of data reuse; development of governance bodies, agreements, and procedures to address ethical and legal concerns and access barriers; and curation of data to CDISC -compliant standards to address heterogeneity and increase findability and reusability, alleviating resource burden on researchers. As exemplified through multiple published IPD meta-analyses and their impact on the development of WHO treatment guidelines the experience of IDDO and research partners serves as compelling evidence for the significant contribution that facilitation of data reuse can make to researchers, science and ultimately for the benefit of patients. The progress in understanding and overcoming those barriers within IDDO's context has been a relatively long journey but is significant, with novel infrastructure, collaborators and environments evolving. Workable solutions and ways forward will be explored, examining how current solutions could be improved, and where next steps should be focused. This symposium will provide a platform for experiences and practical solutions in open science focusing on data reuse, and a forum to push the field further. Overcoming these hurdles, and showcasing these successes is critical to start changing the dialogue from focusing on barriers to driving solutions.

CHAIR
Philippe J. Guerin
University of Oxford, Oxford, United Kingdom
Manju Rahi
Indian Council of Medical Research, New Delhi, India

4 p.m.
INTRODUCTION

4:10 p.m.
SOLUTIONS TO OPEN SCIENCE AND DATA REUSE
Kalynn Kennon
Infectious Diseases Data Observatory, Oxford, United Kingdom

4:35 p.m.
GOVERNANCE OF DATA REUSE
Robert Terry
TDR, World Health Organization, Geneva, Switzerland

4:50 p.m.
THE IMPACT OF DATA REUSE IN MALARIA
Robert J. Commons
Menzies School of Health Research, Darwin, Australia

5:05 p.m.
IMPACT OF DATA REUSE IN NTDS
María Jesús Pinazo
Drugs for Neglected Diseases initiative, Rio de Janeiro, Brazil

5:20 p.m.
APPLICATIONS AND NEXT STEPS IN NEW ENVIRONMENTS
Phaik Yeong Cheah
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

5:35 p.m.
MODERATOR, PANEL DISCUSSION
Philippe J. Guérin
University of Oxford, Oxford, United Kingdom

Scientific Session 92

LIVE STREAMING

Mosquitoes – Biology and Genetics of Insecticide Resistance

Grand Ballroom CDEF - Ballroom Level (East Tower)
Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

CHAIR
Victoria Ingham
Heidelberg University Hospital, Heidelberg, Germany
Tchouakui Magellan
Centre for Research in Infectious Diseases, Yaounde, Cameroon

4 p.m. 6439

THE IMPACT OF NEXT-GENERATION DUAL-ACTIVE INGREDIENT LONG-LASTING INSECTICIDAL NET DEPLOYMENT ON INSECTICIDE RESISTANCE IN MALARIA VECTORS DURING A THREE-YEAR CLUSTER-RANDOMIZED CONTROLLED TRIAL IN TANZANIA

Louisa Alexandra Messenger[1], Nancy S. Matowo[2], Chad L. Cross[1], Mohamed Jumanne[3], Natalie M. Portwood[2], Jackline Martin[2], Eliud Lukole[3], Elizabeth Mallya[3], Jacklin F. Mosha[3], Robert Kaaya[4], Oliva Moshi[4], Bethanie Pelloquin[2], Katherine Fullerton[2], Alphaxard Manjurano[3], Franklin W. Mosha[4], Thomas Walker[5], Mark Rowland[2], Manisha A. Kulkarni[6], Natacha Protopopoff[2]
[1]University of Nevada, Las Vegas, Las Vegas, NV, United States, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]National Institute for Medical Research, Mwanza, United Republic of Tanzania, [4]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, [5]University of Warwick, Waarwick, United Kingdom, [6]University of Ottawa, Ottawa, ON, Canada

4:15 p.m. 6440

WHOLE GENOME SEQUENCING AND RNASEQ IDENTIFIES POTENTIAL MOLECULAR MARKERS OF INSECTICIDE RESISTANCE WITHIN THE *ANOPHELES GAMBIAE* SPECIES COMPLEX

Juan Carlos Lol[1], Antoine Sanou[2], Marion Morris[3], Wasim Hussain[1], Hilary Ranson[3], **Victoria A. Ingham**[1]
[1]Heidelberg University Hospital, Heidelberg, Germany, [2]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [3]Liverpool School of Tropical, Liverpool, United Kingdom

4:30 p.m. 6441

EFFICACY OF DUAL-ACTIVE INGREDIENT LONG-LASTING INSECTICIDAL NETS RELATIVE TO STANDARD NETS, AGAINST HIGHLY PYRETHROID-RESISTANT *ANOPHELES* MOSQUITOES IN TANZANIA: AN EXPERIMENTAL HUT TRIAL

Jackline L. Martin[1], Louisa Messenger[2], Franklin W Mosha[3], Nancy Matowo[4], Jacklin F Mosha[1], Mark Rowland[4], Manisha Kulkarni[5], Natacha Protopopoff[4]
[1]NIMR Mwanza, Mwanza, United Republic of Tanzania, [2]Department of Environmental and Occupational Health, School of Public Health, University of Nevada, Las Vegas, NV, United States of America, Las vegas, FL, United States, [3]1Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, Moshi, United Republic of Tanzania, [4]London School of Hygiene and Tropical, London, United Kingdom, London, United Kingdom, [5]University of Ottawa, Canada, Ottawa, ON, Canada

4:45 p.m. 6442

EVIDENCE SUPPORTING DEPLOYMENT OF NEXT GENERATION INSECTICIDE TREATED NETS IN BURKINA FASO: BIOASSAYS WITH CHLORFENAPYR AND PIPERONYL BUTOXIDE INCREASE MORTALITY OF PYRETHROID-RESISTANT *ANOPHELES GAMBIAE*

Aristide S. Hien[1], Dieudonné Diloma Soma[2], Adama Koné[3], Birame Mame Diouf[4], Sheila Barasa Ogoma[5], Allison Belemvire[6], Djenam Jacob[5], Roch Kounbobr Dabiré[1]
[1]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, [2]Institut de Recherche en Sciences de la Santé / UNB, Bobo-Dioulasso, Burkina Faso, [3]PMI VectorLink Project, Abt Associates, Ouagadougou, Burkina Faso, [4]US President's Malaria Initiative, US Agency for International Development, Ouagadougou, Burkina Faso, [5]PMI VectorLink Project, Abt Associates Inc, Rockville, MD, United States, [6]US President's Malaria Initiative, US Agency for International Development, Washington, DC, United States

5 p.m. 6443

PHENOTYPIC RESISTANCE TO PYRETHROID ASSOCIATED TO METABOLIC MECHANISM IN VGSC-L995F RESISTANT-*ANOPHELES GAMBIAE* MALARIA MOSQUITOES

France Paraudie A. Kouadio[1], Angele N. Sika[2], Behi K. Fodjo[1], Christabelle G. Sadia[1], Sébastien K. Oyou[3], Allassane F. Ouattara[1], Chouaïbou S. Mouhamadou[3]
[1]Centre Suisse de Recherches Scientifiques en Côte d›Ivoire, Université Nangui Abrogoua, Abidjan, Côte D'Ivoire, [2]Université Nangui Abrogoua, Abidjan, Côte D'Ivoire, [3]Centre Suisse de Recherches Scientifiques en Côte d›Ivoire, Abidjan, Côte D›Ivoire

5:15 p.m. 6444

RNASEQ-BASED GENE EXPRESSION PROFILING OF THE CHLORFENAPYR -RESISTANT *ANOPHELES GAMBIAE* FROM CAMEROON HIGHLIGHTS DOWN-REGULATION OF MAJOR PYRETHROID RESISTANCE GENES

Tchouakui Magellan[1], Tatiane Assatse[1], Hervé Tazokong[1], Ambrose Oruni[2], Jonathan Kayondo[2], Francis Watsenga[3], Themba Mzilahowa[4], Michael Osae[5], Charles S. Wondji[6]
[1]Centre for Research in Infectious Diseases, Yaoundé, Cameroon, [2]Uganda Virus Research Institute (UVRI), Entomology department, P.O.Box 49,, Entebbe, Uganda, [3]Institut National de Recherche Biomédicale, P.O Box 1197, Kinshasa, Democratic Republic of the Congo, [4]Malaria Alert Centre (MAC), Kamuzu University of Health Sciences (KUHeS), Entomology department, P.O Box 265, Blantyre, Malawi, [5]Radiation Entomology and Pest Management Centre, Ghana Atomic Energy Commission, PO Box LG80, Legon, Ghana, [6]Department of Vector Biology, Liverpool School of Tropical Medicine, Pembroke Place, L35QA, Liverpool, United Kingdom

5:30 p.m. 6445

INSECTICIDE RESISTANCE AND WHOLE TRANSCRIPTOME PROFILES OF *ANOPHELES* FUNESTUS POPULATION IN WESTERN KENYA

Isaiah Debrah[1], Daibin Zhong[2], Linda E. Amoah[3], Andrew K. Githeko[4], Yaw A. Afrane[5], Guiyun Yan[2]
[1]West African Centre for Cell Biology of Infectious Pathogens (WACCBIP),University of Ghana, Accra, Ghana, [2]University of California, Irvine, CA, United States, [3]Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [4]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [5]Department of Medical Microbiology, University of Ghana Medical School, Accra, Ghana

Symposium 93

Leveraging Mathematical Modelling to Inform Decision Making for Control of Neglected Tropical Diseases Through Collaboration Between National Programs and Academia

Grand Hall K - Ballroom Level (East Tower)

Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

Neglected tropical diseases (NTDs) impact the health, development and livelihood of over one billion people globally. Substantial progress has been made over the last few decades with 42 countries having eliminated at least one NTD since 2010. To accelerate progress and capitalize on these gains, the World Health Organization (WHO) published a roadmap for NTDs with the aim of controlling and eliminating NTDs from endemic countries by 2030. The main method of control for the preventive chemotherapy NTDs is mass drug administration (MDA). Rigorous use of accurate data could identify areas where progress may be slowing and evaluate causes for the continuation of transmission. Projects such as the Expanded Special Project for Elimination (ESPEN) work on the consolidation, access and use of NTD data to inform decision making for programs and identify gaps in intervention efforts (e.g. MDA campaigns) that could be filled to better impact transmission and reach elimination. With increasing data quality and data use comes the opportunity to apply methods such as mathematical modelling. Mathematical modelling has been regularly used to inform decision making for disease programs. For example, in malaria, modelling has frequently been used to evaluate the most impactful combination of interventions that a country could apply to reach prevalence and incidence goals. Or to give predictions on how changing the structure of an intervention may improve impact by expanding to new geographies or age groups. NTD modelling has already been used to evaluate high-level questions such as the prevalence threshold required to interrupt transmission, and the impact of increasing frequency of MDA rounds. NTD country programs could greatly benefit from these methods and for modelling groups to work with programs to identify areas where modelling could provide evidence for their decision making. The goal of this symposium is to provide insight and ideas into how NTD models can be applied to country settings and be used to inform program decision making. We will hear from the NTD Modelling Consortium on bringing together academic groups to share methods and results as well as being a resource for other institutions that wish to learn about or apply modelling for NTDs. We will then learn about two use cases for NTD modelling at country level. First, in Kenya, where modelling is being used to inform MDA planning and implementation for schistosomiasis. Second, on geospatial modelling for identifying onchocerciasis vector breeding sites in Nigeria. Finally, we will hear about a consortium that aims to bring together modelers and programs in sub-Saharan Africa to share knowledge, build capacity and form partnerships between institutions based in NTD endemic countries.

CHAIR

Julia C. Dunn
Clinton Health Access Initiative, Manchester, United Kingdom

Thumbi Mwangi
Center for Epidemiological Modelling and Analysis, University of Nairobi, Nairobi, Kenya

4 p.m.
INTRODUCTION

4:10 p.m.
HARNESSING THE OPPORTUNITIES OF MATHEMATICAL MODELLING TO INFORM AND EVALUATE NTD PROGRAMS
Andreia Vasconcelos
NTD Modelling Consortium, Oxford, United Kingdom

4:30 p.m.
EPIDEMIOLOGICAL MODELS TO SUPPORT PLANNING AND IMPLEMENTATION OF KENYA'S SCHISTOSOMIASIS ELIMINATION PLAN
Mutono Nyamai
Center for Epidemiological Modelling and Analysis, University of Nairobi, Nairobi, Kenya

4:50 p.m.
BLACKFLY HABITAT SUITABILITY MODELING FOR IMPROVED ENTOMOLOGICAL SURVEILLANCE FOR MEETING WHO STOP-MDA REQUIREMENTS IN NIGERIA
Monsuru Adeleke
Osun State University, Osogbo, Nigeria

5:10 p.m.
AM2NTD - BUILDING NETWORKS BETWEEN COUNTRIES IN ENDEMIC COUNTRIES TO DESIGN AND APPLY MATHEMATICAL MODELLING STUDIES FOR NTD CONTROL AND ELIMINATION
Thumbi Mwangi
Center for Epidemiological Modelling and Analysis, University of Nairobi, Nairobi, Kenya

Scientific Session 94

Bacteriology: Other Bacterial Infections

Grand Hall L - Ballroom Level (East Tower)

Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

CHAIR

Pedro Marcal
School of Public Health, Emory University, Atlanta, GA, United States

Scott D. Nash
The Carter Center, Atlanta, GA, United States

4 p.m. 6446

THE THREE-DIMENSIONAL APPROACHES BY MULTIPLE CORRESPONDENCE ANALYSIS (MCA) CAN DIFFERENTIATE LEPROSY DISEASE STATES AND HOUSEHOLD CONTACTS WITH HIGH ACCURACY

Pedro Marcal[1], Marcio Souza[1], Rafael Gama[2], Lorena Oliveira[2], Marcos Pinheiro[1], Thalisson Gomides[2], Heloine Leite[1], Suely Rodrigues[2], Marileny Brandao[2], Leonardo Silva[2], Roberta Pinheiro[3], Jessica Fairley[4], Lucia Fraga[1]
[1]Universidade Federal de Juiz de Fora (UFJF-Campus GV/PMBqBM), Governador Valadares, Brazil, [2]Universidade Vale do Rio Doce - Univale, Governador Valadares, Brazil, [3]Fundacao Oswaldo Cruz - FIOCRUZ/RJ, Rio de Janeiro, Brazil, [4]Emory University, Atlanta, GA, United States

4:15 p.m. 6447

LEPTOSPIROSIS SEROPREVALENCE AND RISK FACTORS AMONG SLAUGHTERHOUSE WORKERS IN BURKINA FASO

Sylvie Zida[1], Henri Gautier Ouédraogo[1], Tegwinde Rebeca Compaoré[1], Tani Sagna[1], Serge Théophile Soubeiga[1], Bienvenu Banhoro[1], Abdou Azaque Zouré[1], Dinanibè Kambiré[1], Amadou Dicko[2], Elsio A. Wunder Jr.[3], Seni Kouanda[1]
[1]Institut de Recherche en Sciences de la Santé (IRSS), Ouagadougou, Burkina Faso, [2]Centre Muraz, Bobo Dioulasso, Burkina Faso, [3]3Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

4:30 p.m. 6448

LEPTOSPIROSIS OUTBREAK AFTER HURRICANE FIONA, PUERTO RICO, 2022

Forrest Kirby Jones[1], Abigail G. Medina[2], Kyle R. Ryff[2], Jessica Irizarry-Ramos[3], Joshua M. Wong[1], Eduardo O'Neill[3], Ismael A. Rodríguez[2], Alfonso C. Hernandez-Romieu[1], Maile T. Phillips[1], Michael A. Johansson[1], Tesfaye Bayleyegn[1], Christine Atherstone[4], Katherine R. Debord[4], Maria E. Negron[4], Renee Galloway[4], Laura E. Adams[1], Melissa Marzan-Rodriguez[2]
[1]CDC Dengue Branch, San Juan, PR, United States, [2]Puerto Rico Department of Health, San Juan, PR, United States, [3]CDC Office of Island Affairs, San Juan, PR, United States, [4]CDC Bacterial Special Pathogens Branch, Atlanta, GA, United States

4:45 p.m. 6449

OCULAR CHLAMYDIA TRACHOMATIS INFECTION MONITORING WITHIN DISTRICT-LEVEL TRACHOMA IMPACT AND SURVEILLANCE SURVEYS: RESULTS AND LESSONS LEARNED 2018-2021

Scott D. Nash[1], Ambahun Chernet[2], Eshetu Sata[2], Mulat Zerihun[2], Demelash Gessese[2], Kimberly A. Jensen[1], Zebene Ayele[2], Berhanu Melak[2], Taye Zeru[3], Gizachew Yismaw[3], Abdulkerim Mengistu[4], Adisu Abebe[4], Fikre Seife[5], Zerihun Tadesse[2], E. Kelly Callahan[1]
[1]The Carter Center, Atlanta, GA, United States, [2]The Carter Center, Addis Ababa, Ethiopia, [3]Amhara Public Health Institute, Bahir Dar, Ethiopia, [4]Amhara Regional Health Bureau, Bahir Dar, Ethiopia, [5]Ministry of Health, Addis Ababa, Ethiopia

5 p.m. 6450

PHOTOGRAPHIC GRADING OF TRACHOMATOUS SCARRING AMONG ADULTS IN TRACHOMA ENDEMIC AMHARA REGION OF ETHIOPIA

Jaymie A. Bromfield[1], Ugochi T. Aguwa[2], Kimberly A. Jensen[1], Fetene Mihretu[3], Eshetu Sata[3], Meraf Wolle[2], E. Kelly Callahan[1], Sheila K. West[2], Scott D. Nash[1]
[1]The Carter Center, Atlanta, GA, United States, [2]Dana Center for Preventative Ophthalmology, Wilmer Eye Institute, Johns Hopkins Hospital, Baltimore, MD, United States, [3]The Carter Center, Addis Ababa, Ethiopia

5:15 p.m. 6451

IMPACT OF PARTNERS IN SCALING UP THE PREVENTION OF BLINDNESS FROM TRACHOMA IN SOUTH SUDAN

Kenneth Ladu Lino Sube[1], Lubari Loro[2], Joseph Lako[3]
[1]College of Medicine, University of Juba, Juba, South Sudan, [2]Christian Blind Mission, Juba, South Sudan, [3]South University of Medicine, Science and Technology, Juba, South Sudan

5:30 p.m. 6452

AN RNA VACCINE FOR PLAGUE

R. Shattock[1], V. Andrianaivoarimanana[2], **M. Rajerison**[2], L. Randriantseheno[2], K. Moore[3], R.V d'Elia[3], T.R Laws[3], J.L Prior[3], E.D Williamson[3]
[1]Dept of Infectious Disease, Imperial College London, United Kingdom, [2]Institut Pasteur de Madagascar, Tananarive, Madagascar, [3]CBR Division, Dstl Porton Down UK, United Kingdom

Symposium 95

More Than a Guideline: Using the WHO 2030 NTD Road Map to End the Neglect of Soil-Transmitted Helminthiasis

Plaza Ballroom - Lobby Level (East Tower)
Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

The Road Map for Neglected Tropical Diseases (NTDs) for 2021–2030 (the 'Road Map') outlines a plan to address the global burden of these diseases and reach the 2030 targets for control, elimination, and eradication. This symposium will showcase how African and Asian soil-transmitted helminthiasis (STH) control programs have adapted their programs to stimulate progress in achieving the 2030 targets using the three foundational pillars outlined in the Road Map. Each speaker will highlight how their program's successes have mapped to the three pillars: (i) accelerate programmatic action, (ii) intensify cross-cutting approaches, and (iii) change operating models and culture to facilitate country ownership. The first presentation will highlight how Bangladesh's Ministry of Health and Family Welfare has pivoted one of the world's largest STH programs from population-based deworming to targeted evidence-based deworming among school-aged children. The speaker will discuss the STH situation in Bangladesh and share the findings of community-based surveys and geostatistical modeling intended to guide programmatic deworming decisions. The second presentation will describe how the national STH program in Malawi monitors the country's changing epidemiology and how this information guides interventions being delivered. The speaker will address the translation of the findings of research studies into practice and the challenges the program faces in implementing the Road Map pillars. Next, the Ugandan Vector Borne & Neglected Tropical Diseases Division speaker will describe the program's challenges in data collection and diagnostics for STH control and the innovative approaches taken to address these challenges. Finally, audience members will hear from the speaker from the African Institute for Health & Development, who will discuss the integration of STH control activities into broader coordination with cultural movements within and around the globe. The final segment of the symposium will feature a panel discussion. Here, the speakers will share their experiences and insights on the successes and challenges of implementing the 2030 Road Map pillars. The discussion will provide a platform for program managers, researchers, and other STH stakeholders to exchange ideas and identify new ways to reach the 2030 targets. The goal of the panel is to encourage south-south dialogue, foster understanding, and promote collaboration among stakeholders in addressing STH.

CHAIR

Kristin M. Sullivan
The Task Force for Global Health, Decatur, GA, United States

Khumbo Kalua
Blantyre Institute for Community Outreach, Blantyre, Malawi

4 p.m.
INTRODUCTION

4:10 p.m.
EPIDEMIOLOGICAL EVIDENCE TO INFORM PROGRAMMING FOR SOIL-TRANSMITTED HELMINTH INFECTION CONTROL IN BANGLADESH
M.M. Aktaruzzaman
Ministry of Health and Family Welfare of Bangladesh, Dhaka, Bangladesh

4:35 p.m.
PUTTING 2030 NTD ROAD MAP PILLARS INTO PRACTICE: EXPERIENCE FROM THE MALAWI SOIL-TRANSMITTED HELMINTHIASIS CONTROL PROGRAM
Khumbo Kalua
Blantyre Institute for Community Outreach, Blantyre, Malawi

4:50 p.m.
INNOVATIONS AND INITIATIVES IN THE UGANDAN SOIL-TRANSMITTED HELMINTHIASIS CONTROL PROGRAM SINCE THE ADOPTION OF THE 2030 NTD ROAD MAP
Betty Nabatte
Division of Vector Borne and Neglected Tropical Diseases, Kampala, Uganda

5:05 p.m.
ADOPTION OF CULTURALLY SENSITIVE MODELS FOR SOIL-TRANSMITTED HELMINTHIASIS CONTROL AND SUSTAINABLE IMPACTS AT NATIONAL AND SUB-NATIONAL LEVELS
Mary Nyamongo
African Institute for Health and Development, Nairobi, Kenya

Symposium 96

CDC Yellow Book Travel Medicine Update

Crystal Ballroom A - Lobby Level (West Tower)
Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

The CDC Yellow Book Health Information for International Travel is published every two years as a resource for health professionals providing care to international travelers. The newly published edition, CDC Yellow Book 2024, compiles the US government's most current travel health guidelines, including pretravel vaccine recommendations, destination-specific health advice, and easy-to-reference maps, tables, and charts. This symposium will introduce novel features of the CDC Yellow Book, including new topics and a sleek, more intuitive on-line interface. CDC-based subject matter experts will offer overviews and updates on three of the most common topics addressed by travel medicine providers: travel vaccines, dengue, and malaria. Drawing from the respective CDC Yellow Book chapter, each presenter will provide an overview of common issues and new updates related to each topic.

CHAIR
Eric Halsey
CDC, Atlanta, GA, United States
Kristina Angelo
CDC, Atlanta, GA, United States

4 p.m.
INTRODUCTION

4:10 p.m.
YELLOW BOOK 2024 OVERVIEW
Eric Halsey
CDC, Atlanta, GA, United States

4:30 p.m.
TRAVEL VACCINE REVIEW AND UPDATE
Kristina Angelo
CDC, Atlanta, GA, United States

4:55 p.m.
DENGUE REVIEW AND UPDATE
Liliana Sanchez-Gonzalez
CDC, San Juan, PR, United States

5:20 p.m.
MALARIA REVIEW AND UPDATE
Alison Ridpath
CDC, Atlanta, GA, United States

Symposium 97

Wolbachia Based Vector Control for Arboviral Diseases: Next Steps in Rolling out the Intervention at Scale

Regency Ballroom A - Ballroom Level (West Tower)
Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

Arboviral infections such as dengue pose a global public health threat. The incidence has been increasing with half of the world's population at risk, a trend perpetuated by climate change. Communities in low resource settings are particularly affected. To prevent the transmission of arboviral diseases, strategies to control mosquito populations have been deployed. The wMel strain of the intracellular bacterium Wolbachia, endowing a pathogen-blocking phenotype, has been introduced in natural populations of *Aedes aegypti*. This method is considered an environmentally friendly approach to control arboviral diseases. The World Mosquito Program's (WMP) Wolbachia method has been assessed by the WHO Vector Control Advisory Group as demonstrating evidence of public health value, and the WMP is applying for WHO prequalification. To reduce the transmission of arboviruses such as dengue and chikungunya in more communities at risk, it is pertinent to scale this arboviral control strategy for widespread roll out. The introgression of wMel into local *Aedes aegypti* populations has been shown to significantly reduce the incidence of dengue in randomized and non-randomized field trials. Challenges to broad implementation include threats to introgression of wMel into the mosquito population, sustained effectiveness, generalizability and affordability of the technology. The symposium will address these challenges by discussing the accumulating evidence and lessons learned from field deployments of wMel-infected *Aedes aegypti* in 12 countries in Asia-Pacific and Latin America. wMel has been shown to reduce the incidence of both dengue and chikungunya in Brazil. Our speakers will reflect on the effect of the wMel release program in Rio de Janeiro, Brazil, an urban setting. Experiences from this observational study will highlight the challenges to wMel introgression encountered in complex urban communities.

Open questions remain about factors such as heterogeneity of baseline mosquito populations, seasonal fluctuations, local accessibility, circulation of Aedes albopictus, an alternative vector for arboviruses and the approach to egg as compared to adult mosquito release carrying wMel. The symposium will discuss a modelling framework for spatially and temporally targeted interventions in complex transmission dynamics. To further address evidence gaps, our symposium will present the EVITA Dengue trial, a cluster-randomized controlled trial to evaluate the efficacy of wMel-infected *Aedes aegypti* mosquitoes in reducing the incidence of arboviral infection in Brazil. The symposium will address issues of cost-effectiveness as well as community-engagement and point out future directions for widespread roll out of this promising arboviral control strategy.

CHAIR

Hendrik Sy
Montefiore Medical Center/Albert Einstein College of Medicine, The Bronx, NY, United States

Albert I. Ko
Yale School of Public Health, New Haven, CT, United States

4 p.m.
INTRODUCTION

4:10 p.m.
UPDATE ON GLOBAL EVIDENCE FOR THE EFFECTIVENESS, SCALABILITY, AND COST-EFFECTIVENESS OF WMP'S WOLBACHIA METHOD

Katie Anders
Monash University, Melbourne, Australia

4:30 p.m.
EFFECT OF THE WMEL RELEASE PROGRAM ON THE INCIDENCE OF DENGUE AND CHIKUNGUNYA IN BRAZIL

Henrik Salje
University of Cambridge, Cambridge, United Kingdom

4:50 p.m.
EXPERIENCE WITH THE EVITA DENGUE TRIAL IN BRAZIL - EVIDENCE GAPS REMAIN

Luciano A. Moreira
Fundação Oswaldo Cruz, Belo Horizonte, Brazil

5:10 p.m.
FUTURE PLANS FOR THE GLOBAL SCALE UP OF THE WMP WOLBACHIA METHOD

Scott O'Neill
Monash University, Clayton, Australia

5:30 p.m.
MODERATOR, PANEL DISCUSSION

Hendrik Sy
Montefiore Medical Center / Albert Einstein College of Medicine, The Bronx, NY, United States

Scientific Session 98

Pneumonia, Respiratory Infections and Tuberculosis II

Regency Ballroom B - Ballroom Level (West Tower)
Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

CHAIR

Jasper Chan
The University of Hong Kong, Hong Kong, Hong Kong

David Hamer
Center for Emerging Infectious Disease Research and Policy, Boston University School of Public Health, Boston, MA, United States

4 p.m. 6453

A SALIVA-BASED, DNA-EXTRACTION-FREE APPROACH FOR THE MOLECULAR DETECTION OF STREPTOCOCCUS PNEUMONIAE

Tzu-Yi Lin, Chikondi Peno, Maikel Stefano Hislop, Amy Bei, Anne L. Wyllie
Yale School of Public Health, New Haven, CT, United States

4:15 p.m. 6454

PNEUMOCOCCAL CARRIAGE IN THE SAHEL REGION OF BURKINA FASO BEFORE A 13 VALENT PNEUMOCOCCAL CONJUGATE VACCINATION CAMPAIGN

Zoma L. Robert[1], Issa Ouedraogo[2], Lana Childs[3], Guetwendé Sawadogo[1], T. Félix Tarbangdo[1], Aristide Zoma[4], Soufiane Sanou[4], Brice Bicaba[5], Simon Sanou[5], Lesley McGee[6], Miwako Kobayashi[6], Jennifer R. Verani[6], Flavien H. AKE[1], Mahamoudou Ouattara[6]
[1]Davycas International, Ouagadougou, Burkina Faso, [2]Ministry of health, Ouagadougou, Burkina Faso, [3]National Foundation for the Centers for Disease Control and Prevention, Inc., Atlanta, GA,, GA, United States, [4]Centre Muraz, Bobo-Dioulasso, Burkina Faso, [5]Centre des Operations de Réponse aux Urgences Sanitaires, Ouagadougou, Burkina Faso, [6]Centers for Disease Control and Prevention, Atlanta, GA, United States

4:30 p.m. 6455

PNEUMOCOCCAL CARRIAGE AND CHANGES IN SEROTYPE DISTRIBUTION AFTER A SWITCH FROM PCV10 TO PCV13 IN CHILDREN IN A RURAL SITE IN MATIARI, PAKISTAN

Shahira Shahid, Izn Iqbal, Samiah Kanwar, Furqan Kabir, Sheraz Ahmed, Aneeta Hotwani, Sehrish Munir, Muhammad Farrukh Qazi, Fyezah Jehan, Muhammad Imran Nisar
Aga Khan University, Karachi, Pakistan

4:45 p.m. 6456

ANTIBIOTIC USE AMONG ADULT PATIENTS WITH SEVERE ACUTE RESPIRATORY INFECTION IN TERTIARY LEVEL HOSPITALS ACCORDING TO THE WHO AWARE CLASSIFICATION IN BANGLADESH

Fahmida Chowdhury, Md. Ariful Islam, Tanzir Ahmed Shuvo, Md. Kaousar Ahmmed, Probir Kumar Kumar Ghosh, Syeda Mah-E- Muneer Mah-E- Muneer, Md. Zakiul Hassan
icddr,b, Dhaka, Bangladesh

5 p.m. 6457

PREVALENCE OF SOIL-TRANSMITTED HELMINTH CO-INFECTION AMONG PERSONS WITH TB

Pranay Sinha[1], Prakash B. Narasimhan[2], Madolyn Dauphinais[1], Komal Jain[2], Subitha L. Lakshminarayanan[2], Nonika Rajkumari[2], Madeline Carwile[1], Scott K. Heysell[3], Natasha S. Hochberg[1]

[1]Boston University, Boston, MA, United States, [2]Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India, [3]University of Virginia, Charlottesville, VA, United States

5:15 p.m. 6458

ASSESSING PROGRESS TOWARDS THE WORLD HEALTH ORGANIZATION TARGET OF ZERO CATASTROPHIC COSTS DUE TO TUBERCULOSIS BY 2035

Paula P. Jimenez[1], Sumona Datta[2], Luz Quevedo Cruz[1], Matthew J. Saunders[1], Carlton A. Evans[1]

[1]Innovation For Health and Development, London, United Kingdom, [2]Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

5:30 p.m. 6459

THE EPIDEMIOLOGICAL SHIFTS OF DRUG-RESISTANT TUBERCULOSIS IN SABAH, EAST MALAYSIA DURING THE COVID-19 PANDEMIC: A 6-YEAR REVIEW OF THE GAINS AND LOSSES FROM 2016 TO 2021

Yao Long Lew[1], Roddy Teo[2], Amabel Min Hui Seow[2], Tsin Wen Yeo[3], Anne B. Chang[1], Christopher P. Lowbridge[1]

[1]Menzies School of Health Research, Darwin, Australia, [2]Tuberculosis and Leprosy Control Unit, Sabah State Health Department, Kota Kinabalu, Sabah, Malaysia, [3]Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, Singapore

Symposium 99

American Committee of Medical Entomology (ACME) Symposium II: Annual Business Meeting, Awards and Hoogstraal Medal Presentations and Networking Reception

Regency Ballroom C - Ballroom Level (West Tower)

Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

This symposium provides a forum for exchange of information among people interested in research on arthropod vectors of disease. This session features a short ACME business meeting followed by presentation of the 2023 ACME awards. The award ceremony features the ACME Student Travel awards, Future Leaders in International Research awards, Breakthrough in Medical Entomology award, Award of Distinction, and the Hoogstraal Medal, the highest distinction conferred by ACME. The symposium will highlight the next generation of medical entomologists and recognize the early, mid- and late career achievements of individuals in the field of medical entomology. The plenary session will be delivered by the 2023 Hoogstraal Medal recipient and will feature the contributions of the awardee to advancing the field of medical entomology. The symposium will conclude with the passing of the gavel, transfer of office and the ACME professional networking session.

CHAIR

Catherine A. Hill
Purdue University, West Lafayette, IN, United States

Adriana Troyo
Universidad de Costa Rica, San Jose, Costa Rica

4 p.m.
INTRODUCTION

4:10 p.m.
ACME ANNUAL BUSINESS MEETING AND AWARDS

Catherine Hill
Purdue University, West Lafayette, IN, United States

4:30 p.m.
ACME AWARDS: FUTURE LEADERS IN INTERNATIONAL RESEARCH, AWARD OF DISTINCTION, STUDENT TRAVEL AWARDS

Catherine Hill
Purdue University, West Lafayette, IN, United States

4:55 p.m.
HARRY HOOGSTRAAL MEDAL PRESENTATION AND PLENARY

Jose Ribeiro
National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

5:20 p.m.
ACME NETWORKING SESSION

Scientific Session 100

Malaria - Epidemiology: Intervention Impact on Infection, Disease and Mortality

Regency Ballroom D - Ballroom Level (West Tower)

Friday, October 20, 4 p.m. - 5:45 p.m. U.S. Central Time Zone

CHAIR

Ruth Ashton
Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

Hellen Barsosio
Kenya Medical Research Institute, Kisumu, Kenya

4 p.m. 6460

MALARIA IN CAMEROON: A RETROSPECTIVE ANALYSIS

Sophie Diarra[1], Mar Velarde[1], Christian Selinger[1], Branwen Owen[1], Emilie Pothin[1], Jean Fosso[2], Moise Abomabo[2]

[1]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [2]Ministry of Health Cameroon, Yaoundé, Cameroon

4:15 p.m. 6461

QUANTIFYING THE IMPACT OF MALARIA IN PREGNANCY ON MATERNAL ANEMIA AND ITS ASSOCIATED BURDEN ACROSS AFRICA

Sequoia I. Leuba[1], Robert Verity[1], Julie R. Gutman[2], Meghna Desai[2], Kassoum Kayentao[3], Simon Kariuki[4], James Dodd[5], Daniel Chandramohan[6], Daniel J. Weiss[7], Brian Greenwood[6], Patrick G.T. Walker[1]

[1]MRC Centre for Global Infectious Disease Analysis, School of Public Health, Imperial College London, London, United Kingdom, [2]Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Malaria Research and Training Center, Mali International Center for Excellence in Research, University of Sciences, Techniques, and Technologies of Bamako,

Bamako, Mali, [4]Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, [5]Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]Malaria Atlas Project, Telethon Kids Institute, Perth Children's Hospital, Nedlands, Australia

4:30 p.m.

6462

A GLOBAL MALARIA CASE-MANAGEMENT MODEL CASCADE WITH AN INTERACTIVE TOOL FOR POINT-OF-CARE CONSUMPTION ANALYSIS

Tasmin L. Symons, Susan Rumisha, Paulina Dzianach, Francesca Sanna, Mauricio Van Den Berg, Sarah Connor, Camilo Vargas, Daniel J. Weiss, Tolu Okitika, Peter W. Gething
Telethon Kids Institute, Perth, Australia

4:45 p.m.

6463

MALARIA AS A RISK FACTOR FOR COVID-19 IN WESTERN KENYA AND BURKINA FASO (MALCOV)

Hellen C. Barsosio[1], Brian Tangara[1], Tegwen Marlais[2], Jean M. Kabore[3], Alfred B. Tiono[3], Kephas Otieno[1], Miriam C. Wanjiku[1], Morine Achieng[1], Eric D. Ongango[1], Everlyne D. Ondieki[1], Henry Aura[1], Telesphorus Odawo[1], David J. Allen[4], Luke Hannan[5], Kevin Tetteh[2], Issiaka Soulama[3], Alphonse Ouedraogo[3], Samuel S. Serme[3], Ben I. Soulama[3], Aissata Barry[3], Emilie Badoum[3], Julian Matthewman[6], Helena Brazal-Monzó[4], Jennifer Canizales[4], Anna Drabko[7], William Wu[7], Simon Kariuki[1], Maia Lesosky[5], Sodiomon B. Sirima[3], Chris Drakeley[4], Feiko O. ter Kuile[5]
[1]Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, [2]Department of Clinical Research, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Groupe de Recherche Action en Santé (GRAS), Ouagadougou, Burkina Faso, [4]Department of Infection Biology, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [6]Department of Non-Communicable Disease Epidemiology, Faculty of Epidemiology and Population Health, London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]Quantitative Engineering Design (QED.ai), Warsaw, Poland

5 p.m.

6464

PREVALENCE OF MALARIA INFECTION AND COVERAGE OF KEY CONTROL INTERVENTIONS AMONG SEASONAL MIGRANT WORKERS AT FARM SITES AND SURROUNDING RESIDENT POPULATIONS IN NORTHWEST AMHARA REGION, ETHIOPIA

Melkamu Tiruneh[1], Berhane Tesfay[1], Henry Ntuku[1], Adem Agmas[1], Asefaw Getachew[1], Laura Merriman[1], Belay Bezabih[2], Gudissa Assefa[3], Hiwot Solomon[4], Endalamaw Gadisa[5], Dereje Dillu[1], Asnakew Yeshiwondim[1], Gezahegn Tesfaye[1], Belendia Serda[1], Caterina Guinovart[6], Jennifer Smith[7], Amir Siraj[1], Adam Bennett[1]
[1]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Addis Ababa, Ethiopia, [2]Amhara National Regional State Health Bureau, Bahir Dar, Ethiopia, [3]Ministry of Health, Ethiopia, Addis Ababa, Ethiopia, [4]Ministry of Health, Addis Ababa, Ethiopia, [5]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [6]PATH Malaria Control and Elimination Partnership in Africa, Barcelona Institute for Global Health, Barcelona, Spain, [7]Univeresity of California, San Francisco, San Francisco, CA, United States

5:15 p.m.

6465

MALARIA SEROEPIDEMIOLOGY IN VERY LOW TRANSMISSION SETTINGS IN THE PERUVIAN AMAZON

Bryan Fernandez-Camacho[1], Brian Peña-Calero[1], Martina Guillermo-Roman[1], Jorge Ruiz-Cabrejos[1], Jose Luis Barboza[1], Lucia Bartolini-Arana[1], Hugo Rodriguez-Ferrucci[2], Veronica Soto-Calle[3], Luca Nelli[4], Isabel Byrne[4], Monica Hill[4], Elin Dumont[4], Lynn Grignard[4], Kevin Tetteh[4], Lindsey Wu[4], Alejandro Llanos-Cuentas[5], Chris Drakeley[4], Gillian Stresman[4], Gabriel Carrasco-Escobar[1]
[1]Health Innovation Laboratory, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, [3]Dirección de Prevención y Control de Enfermedades Metaxénicas y Zoonosis - Ministerio de Salud, Lima, Peru, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

5:30 p.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

6842

UPDATING MALARIA RISK MAP OF KENYA BY PRE-SERVICE DIAGNOSIS OF THE MALARIA ASYMPTOMATIC INDIVIDUALS RECRUITED IN THE KENYA DEFENCE FORCES

Edwin Wachenje Mwakio[1], Charles Ekkuttan[2], John Lugonza[2], Juliana Munyao[2], Gladys Chemwor[1], Jackline Juma[1], Charles Okudo[1], Raphael Okoth[1], Benjamin Opot[1], Philip Njatha[1], Dennis Juma[1], Hoseah M. Akala[1], Kirti Tiwari[3], Elly Ojwang[3], Timothy Egbo[3], Eric Garges[3]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Kenya Defence Forces, Eldoret, Kenya, [3]United States Army Medical Research Directorate-Africa, Kisumu, Kenya

6860

REDUCTION OF MALARIA CASE INCIDENCE FOLLOWING THE INTRODUCTION OF CLOTHIANIDIN-BASED INDOOR RESIDUAL SPRAYING IN PREVIOUSLY UNSPRAYED DISTRICTS: AN OBSERVATIONAL ANALYSIS USING HEALTH FACILITY REGISTER DATA FROM COTE D'IVOIRE, 2018-2022

Emily R. Hilton[1], Ndombour Gning-Cisse[2], Auguste Assi[2], Mathieu Eyakou[2], John Koffi[2], Barthelemy Gnakou[2], Bernard Kouassi[2], Cecilia Flatley[3], Joseph Chabi[3], Constant Guy N'Guessan Gbalegba[4], Serge Alex Aimain[4], Colette Yah Kokrasset[4], Antoine Mea Tanoh[4], Sylvain Koffi N'Gotta[4], Francine Octavie Yao[4], Hugues Assi Egou[5], Philomène Konan[5], Kelly Davis[6], Edi Constant[7], Allison Belemvire[8], Patricia Yepassis-Zembrou[9], Pascal Zinzindohoue[10], Blaise Kouadio[10], Sarah Burnett[6]
[1]PMI VectorLink Project, Seattle, WA, United States, [2]PMI VectorLink Project, Abt Associates, Abidjan, Côte D'Ivoire, [3]PMI VectorLink Project, Abt Associates, Rockville, MD, United States, [4]Programme National de Lutte Contre le Paludisme, Abidjan, Côte D'Ivoire, [5]Direction de l'Informatique et de l'Information Sanitaire, Abidjan, Côte D'Ivoire, [6]PMI VectorLink Project, Washington, DC, United States, [7]Centre Suisse de Recherches Scientifiques en Côte d›Ivoire, Abidjan, Côte D›Ivoire, [8]U.S. President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States, [9]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Abidjan, Côte D'Ivoire, [10]U.S. President's Malaria Initiative, U.S. Agency for International Development, Abidjan, Côte D'Ivoire

6843

LLIN EVALUATION IN UGANDA PROJECT (LLINEUP2) - ASSOCIATION BETWEEN HOUSING CONSTRUCTION AND MALARIA BURDEN IN UGANDA: RESULTS FROM AN OBSERVATIONAL STUDY OF 32 DISTRICTS

Martha J. Nassali[1], Samuel Gonahasa[1], Catherine Maiteki-Sebuguzi[2], Jane F. Namuganga[1], Jimmy Opigo[2], Daniel Kyabayinze[3], Isaiah Nabende[1], Jaffer Okiring[1], Emmanuel Arinaitwe[1], Adrienne Epstein[4], Katherine Snyman[5], Joaniter Nankabirwa[1], Grant Dorsey[6], Moses R. Kamya[7], Sarah Staedke[4]

[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]National Malaria Control Division, Ministry of Health, Kampala, Uganda, [3]Directorate of Public Health, Ministry of Health, Kampala, Uganda, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom, [6]Department of Medicine, University of California, San Francisco, San Francisco, CA, United States, [7]Department of Medicine, Makerere University, Kampala, Uganda

6839

HIGH COMMUNITY HEALTH WORKER USAGE WITH APPROPRIATE MALARIA MANAGEMENT IN A MODERATE *PLASMODIUM FALCIPARUM* BURDEN REGION OF CHADIZA DISTRICT, ZAMBIA, APRIL-MAY, 2021

Erika Wallender[1], Bupe M. Kabamba[2], Marie-Reine I. Rutagwera[3], Chabu Kangale[2], Travis Porter[4], Maximillian Musunse[2], Sarah Gallalee[5], Adam Bennett[4], Paul Psychas[6], Julie Gutman[1], Busiku Hamainza[7], Julie Thwing[1]

[1]U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]PATH PAMO Plus, Lusaka, Zambia, [3]PATH PAMO Plus, Atlanta, Zambia, [4]PATH MACEPA, Seattle, WA, United States, [5]University of California, San Francisco, San Francisco, CA, United States, [6]U.S. President's Malaria Initiative, CDC, Lusaka, Zambia, [7]Zambia Ministry of Health, National Malaria Elimination Center, Lusaka, Zambia

6838

HIGH BURDEN OF ASYMPTOMATIC MALARIA AND ANAEMIA DESPITE HIGH ADHERENCE TO MALARIA CONTROL MEASURES: A CROSS-SECTIONAL STUDY AMONG PREGNANT WOMEN ACROSS TWO SEASONS IN A MALARIA-ENDEMIC SETTING IN GHANA

Nsoh Godwin Anabire[1], Belinda Aculley[2], Abigail Pobee[2], Eric Kyei-Baafour[2], Gordon Awandare[3], Maria del Pilar Quintana[4], Lars Hviid[4], Michael Ofori[2]

[1]Department of Biochemistry and Molecular Medicine, School of Medicine, University for Development Studies, Tamale, Ghana, [2]Department of Immunology, Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [3]West African Centre for Cell Biology of Infectious Pathogens; Department of Biochemistry, Cell and Molecular Biology, University of Ghana, Accra, Ghana, [4]Centre for Medical Parasitology, Department of Immunology and Microbiology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

Break

Friday, October 20, 5:45 p.m. - 6:15 p.m. U.S. Central Time Zone

Special Session 101

Speed-Networking with the Experts

Crystal Ballroom B - Lobby Level (West Tower)
Friday, October 20, 6:15 p.m. - 8 p.m. U.S. Central Time Zone

The annual Speed-Networking session is organized by the Trainee Membership Committee and the five ASTMH subgroups: ASTMH Committee on Global Health (ACGH), the American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH/ Clinical Group), the American Committee of Medical Entomology (ACME), the American Committee on Arthropod-Borne Viruses (ACAV) and the American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP). The session is designed to facilitate interactions between senior scientists, physicians and trainees in an informal setting in order to provide an array of important information on possible career paths in tropical medicine. During this session, students and young career scientists will have an opportunity to briefly meet experts who represent each of the subgroup fields, including scientists in global health, clinicians, epidemiologists, entomologists and basic research scientists. Experts will have a broad range of career experiences working in international posts, policy, federal government, and the military, among others. Experts will share information with students about their career choices, trajectories, challenges along the way, and how they see their work fitting into the larger tropical medicine arena. Students in this session will be designated to a subgroup to match their interests and current educational paths. Please note that this meeting is limited to those who pre-registered for the event.

CHAIR

Bartholomew Ondigo
Egerton University, Nakuru, Kenya

Hannah Steinberg
University of Illinois Chicago, Chicago, IL, United States

Laia Vazquez Guillamet
ISGlobal, Barcelona, Spain

Sponsored Symposium

The Role of Antivirals for Prevention and Treatment of Dengue

Grand Hall J - Ballroom Level (East Tower)
Friday, October 20, 6:15 p.m. – 8 p.m. United States Central Time Zone

Sponsored by Johnson & Johnson

See page 55 for information.
This session does not carry ASTMH CME credit.

Sponsored Symposium

PfHRP2/3 Deletion: A Call to Action

Crystal Ballroom A - Lobby Level (West Tower)
Friday, October 20, 6:15 p.m. – 8 p.m. United States Central Time Zone

Sponsored by Abbott

See page 56 for information.
This session does not carry ASTMH CME credit.

Saturday, October 21

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)
Saturday, October 21, 7 a.m. - 5 p.m. U.S. Central Time Zone

Speaker Ready Room (Closed 1 p.m. - 2 p.m.)

Grand Suite 2AB - Ballroom Level (East Tower)
Saturday, October 21, 7 a.m. - 5 p.m. U.S. Central Time Zone

TropStop -Student/Trainee Lounge

Grand Hall MN – Ballroom Level (East Tower)
Saturday, October 21, 7 a.m. - 5 p.m. U.S. Central Time Zone

This casual setting, designed with students, trainees and residents in mind (coffee, internet), is your place for a break from the fast-pace of the meeting and relax with colleagues and friends. Check out the "Career Chats," held in the TropStop. This will be your opportunity to meet professionals in the fields of tropical medicine and global health who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Meeting Sign-Up Room

Horner and Ogden - Third Floor (West Tower)
Saturday, October 21, 7 a.m. - 7 p.m. U.S. Central Time Zone

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Saturday, October 21, 7 a.m. - 7 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Saturday, October 21, 7 a.m. - 7 p.m. U.S. Central Time Zone

ASTMH Past Presidents Meeting

Michigan 3 -Concourse Level (East Tower)
Saturday, October 21, 7 a.m. - 8 a.m. U.S. Central Time Zone

Diploma Course Certification Committee Meeting

Gallery 3 Boardroom - Skyway Level (West Tower)
Saturday, October 21, 7 a.m. - 8 a.m. U.S. Central Time Zone

Scientific Program Committee Meeting

Michigan 1A/B/C - Concourse Level (East Tower)
Saturday, October 21, 7 a.m. - 8 a.m. U.S. Central Time Zone

Press Room

Randolph 1A - Concourse Level (East Tower)
Saturday, October 21, 7:45 a.m. - 5 p.m. U.S. Central Time Zone

Scientific Session 102

Global Health: Maternal, Newborn and Child Health

Grand Ballroom A - Ballroom Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Catherine Oldenburg
University of California, San Francisco, San Francisco, CA, United States

Quique Bassat
ISGlobal, Barcelona, Spain

8 a.m. 6466

CAUSES OF DEATH AMONG INFANTS AND CHILDREN ENROLLED THROUGH THE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) NETWORK

Quique Bassat[1], Dianna M. Blau[2], Ikechukwu U. Ogbuanu[3], Solomon Samura[4], Erick Kaluma[3], Ima-Abasi Bassey[3], Samba Sow[5], Adama Mamby Keita[5], Milagritos Tapia[6], Ashka Mehta[6], Karen Kotloff[6], Afruna Rahman[7], Kazi Munisul Islam[7], Muntasir Alam[7], Shams El Arifeen[7], Emily Gurley[8], Vicky Baillie[9], Portia Mutevedzi[9], Sana Mahtab[9], Bukiwe Nana Thwala[9], Beth A. Tippett Barr[10], Dickens Onyango[11], Victor Akelo[12], Emily Rogena[13], Peter Onyango[14], Richard Omore[15], Inacio Mandomando[16], Sara Ajanovic[1], Rosauro Varo[1], Antonio M. Sitoe[16], Miquel Duran-Frigola[17], Nega Assefa[18], J. Anthony G. Scott[19], Lola Madrid[19], Tseyon Tesfaye[18], Yadeta Dessie[18], Zachary Madewell[2], Robert F. Breiman[20], Cynthia G. Whitney[20], Shabir Madhi[9]
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8:15 a.m. 6467

INFANT MORTALITY AND GROWTH FAILURE AFTER ORAL AZITHROMYCIN AMONG LOW BIRTHWEIGHT AND UNDERWEIGHT NEONATES

Ali Sie[1], Mamadou Bountogo[1], Alphonse Zakane[1], Guillaume Compaore[1], Thierry Ouedraogo[1], Elodie Lebas[2], Benjamin F. Arnold[2], Thomas M. Lietman[2], **Catherine Oldenburg**[2]
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8:30 a.m. 6468

EFFECT OF A SINGLE DOSE OF PROPHYLACTIC AZITHROMYCIN TO INFANTS ON FECAL CARRIAGE OF ENTEROPATHOGENS IN PAKISTANI INFANTS

Aneela Pasha[1], Ameer Muhammad[2], Furqan Kabir[1], Waqasuddin Khan[1], Yasir Shafiq[1], Imran Nisar[1], Iqbal Azam[1], Najeeha Iqbal[1], **Fyezah Jehan**[1]
[1]*Aga Khan University, Karachi, Pakistan,* [2]*Vital Pakistan Trust, Karachi, Pakistan*

8:45 a.m. 6469

EVALUATING THE ACCURACY OF INTERVA-5 AND INSILICOVA ALGORITHMS IN DETERMINING THE LEADING CAUSES OF MORTALITY IN INFANTS AND CHILDREN UNDER-5 IN WESTERN KENYA

Joyce Akinyi Were[1], Victor Akelo[2], David Obor[1], Sammy Khagayi[1], Benard Asuke[1], Aggrey Igunza[1], Cynthia Whitney[3], Dianna Blau[4], Beth Barr[5]
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9 a.m. 6470

IDENTIFYING RISK FACTORS FOR MATERNAL NEAR MISS (MNM) AMONG RURAL PREGNANT WOMEN ADMITTED TO A TERTIARY PUBLIC HOSPITAL IN BANGLADESH: A CASE-CONTROL STUDY

Rajib Biswas[1], Emily S. Gurley[2], Kazi Munisul Islam[1], Mohammad Sabbir Ahmed[1], Shovo Debnath[1], Hafsa Hossain[1], Salma Afroz Shifa[1], Dilruba Zeba[3], Qazi Sadeq-ur Rahman[1], Sanwarul Bari[1], Shams El Arifeen[1], Mohammad Zahid Hossain[1]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Johns Hopkins University, Baltimore, MD, United States, [3]Bangabandhu Sheikh Mujib Medical College, Faridpur, Bangladesh

9:15 a.m. 6471

ANTENATAL CARE SERVICES IN BENIN AND TANZANIA, 2021-2022: AN EQUITY ANALYSIS STUDY

Anna Munsey[1], Alen Kinyina[2], Melkior Assenga[2], Faustin Onikpo[3], Alexandre Binazon[3], Marie Adeyemi Idohou[3], Manzidatou Alao[3], Sijenunu Aron[4], Samwel L. Nhiga[4], Julie Niemczura[5], Julie Buekens[5], Chonge Kitojo[6], Erik Reaves[7], Catherine Dentinger[8], Ahmed Saadani Hassani[9], Mary Drake[2], Katherine Wolf[10], Stephanie Suhowatsky[10], Aurore Ogouyèmi-Hounto[11], Ruth Lemwayi[2], Julie R. Gutman[1], Walter Ochieng[12]
[1]Malaria Branch, Division of Parasitic Diseases and Malaria, Global Health Center, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Jhpiego, Dar es Salaam, United Republic of Tanzania, [3]U.S. Presidents' Malaria Initiative Impact Malaria project, MCD, Cotonou, Benin, [4]National Malaria Control Program, Dar es Salaam, United Republic of Tanzania, [5]U.S. Presidents' Malaria Initiative Impact Malaria project, MCD, Washington, DC, United States, [6]U.S. President's Malaria Initiative, USAID, Dar es Salaam, United Republic of Tanzania, [7]U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania, [8]U.S. President's Malaria Initiative, Malaria Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [9]U.S. Presidents' Malaria Initiative, U.S. Centers for Disease Control and Prevention, Cotonou, Benin, [10]U.S. Presidents' Malaria Initiative Impact Malaria project, Jhpiego, Baltimore, MD, United States, [11]Unité de Parasitologie/Faculté des Sciences de la Santé /Université d'Abomey Calavi, Cotonou, Benin, [12]Office of the Director, Global Health Center, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

9:30 a.m. 6472

COSTING OF A COMBINATION INTERVENTION (KYATEREKERA) ADDRESSING SEXUAL RISK-TAKING BEHAVIORS AMONG VULNERABLE WOMEN IN SOUTHWESTERN UGANDA

Yesim Tozan[1], Joshua Kiyingi[2], Sooyoung Kim[1], Ozge Bahar Sensoy[2], Proscovia Nabunya[2], Larissa Jennings Mayo-Wilson[3], Joseph Kagaayi[4], Mary M. McKay[2], Susan S. Witte[5], Fred M. Ssewamala[2]
[1]New York University School of Global Public Health, New York, NY, United States, [2]Brown School, Washington University in Saint Louis, Saint Louis, MO, United States, [3]Gilling School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [4]International Center for Child Health and Development, Washington University in St. Louis, Uganda Field Office, Masaka, Uganda, [5]Columbia University School of Social Work, New York, NY, United States

Scientific Session 103

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasites – Protective Mechanisms

Grand Ballroom B - Ballroom Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR
Julian Rayner
University of Cambridge, Cambridge, United Kingdom

Katherine O'Flaherty
Burnet Institute, Melbourne, Australia

8 a.m. 7264

HIGH-RESOLUTION ANALYSIS OF TRANSLATIONAL REGULATION DURING LIFE CYCLE TRANSITIONS IN *TOXOPLASMA GONDII*

Michelle Peters, Aditi Shukla, Kehui Xiang, Dylan McCormick, David Bartel, Sebastian Lourido
Whitehead Institute/Massachusetts Institute of Technology, Cambridge, MA, United States

8:15 a.m. 6473

THE COLLABORATIVE CROSS REVEALS A SINGLE LOCUS REQUIRED FOR PROTECTIVE IMMUNITY AGAINST HIGHLY VIRULENT *TOXOPLASMA GONDII* STRAINS

Juan C. Sánchez-Arcila[1], Arlon Wizzard[1], Litzy Lemus[1], Jennifer Eggleston[1], Darian Galvez[1], Scott P. Souza[1], Kirk Dc Jensen[2]
[1]Department of Molecular and Cell Biology, University of California, Merced, CA, United States, [2]Health Sciences Research Institute, University of California, Merced, CA, United States

8:30 a.m. 6474

EXPLORING NATURALLY ACQUIRED IMMUNITY TO *PLASMODIUM FALCIPARUM* IN A GENOTYPIC ANALYSIS OF A LONGITUDINAL COHORT STUDY

Emily LaVerriere[1], Zachary M. Johnson[2], Meg Shieh[2], Charlotte Switzer[1], Caroline O. Buckee[1], Peter D. Crompton[3], Boubacar Traore[4], Tuan M. Tran[5], Daniel E. Neafsey[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [3]National Institutes of Health, Rockville, MD, United States, [4]University of Sciences, Technique and Technology of Bamako, Bamako, Mali, [5]Indiana University School of Medicine, Indianapolis, IN, United States

8:45 a.m. 6475

INVESTIGATION OF THE RELATIONSHIP BETWEEN NATURALLY ACQUIRED ANTIMALARIAL ANTIBODIES AND THE DURATION AND CLEARANCE OF ULTRA-LOW DENSITY *PLASMODIUM VIVAX* INFECTIONS

Katherine O'Flaherty[1], Rhea J. Longley[2], Merryn S. Roe[1], Sophie G. Zaloumis[3], D. Herbert Opi[1], Kael Schoffer[4], David J. Price[5], Rupam Tripura[6], Chea Ngoun[7], Koukeo Phommasone[8], Mayfong Mayxay[9], Paul N. Newton[10], Thomas J. Peto[6], James Callery[6], Mehul Dhorda[6], Nicholas P. Day[6], Arjen M. Dondorp[6], Eizo Takashima[11], Takafumi Tsuboi[11], Julie A. Simpson[3], James G. Beeson[12], Ivo Mueller[2], Nicholas J. White[6], Lorenz von Seidlein[6], Freya J. I. Fowkes[13]
[1]Disease Elimination Program, Burnet Institute, Melbourne, Australia, [2]Population Health and Immunity Division, Walter and Eliza Hall Institute of Medical Research and Department of Medical Biology, The University of Melbourne, Melbourne, Australia, [3]Centre for Epidemiology and Biostatistics, The University of Melbourne, Melbourne, Australia, [4]Population Health and Immunity Division, Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, [5]Centre for Epidemiology and Biostatistics, The University of Melbourne and

Department of Infectious Diseases, The University of Melbourne at the Peter Doherty Institute for Infection and Immunity, Melbourne, Australia, [6]Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand and Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom, [7]National Centre for Parasitology, Entomology, and Malaria Control, Phnom Penh, Cambodia, [8]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao PDR and Amsterdam Institute for Global Health & Development, Amsterdam, Netherlands, [9]Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom and Institute of Research and Education Development, University of Health Sciences, Vientiane, Lao People's Democratic Republic, [10]Centre for Tropical Medicine and Global Health, University of Oxford, Oxford, United Kingdom and Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic, [11]Division of Malaria Research, Proteo-Science Center, Ehime University, Matsuyama, Japan, [12]Disease Elimination Program, Burnet Institute and Departments of Medicine, Microbiology and Immunology, and Infectious Diseases, The University of Melbourne and Central Clinical School and Department of Microbiology, Monash University, Melbourne, Australia, [13]Disease Elimination Program, Burnet Institute and Centre for Epidemiology and Biostatistics, The University of Melbourne and Departments of Epidemiology and Preventative Medicine and Infectious Diseases, Monash University, Melbourne, Australia

9 a.m. **6476**

NEW INSIGHTS INTO SCHISTOSOMIASIS MANSONI PATHOGENESIS: EVIDENCE FOR BACTERIAL TRANSLOCATION, INFLAMMASOME ACTIVATION, AND UPREGULATION OF PROINFLAMMATORY CYTOKINES IN HEPATOSPLENIC PATIENTS

Thiago Almeida Pereira[1], Jailza Lima Rodrigues[2], Izabela Voieta[2], José Roberto Lambertucci[2], Stefan M. Geiger[2], Deborah Negrão-Corrêa[2]
[1]Stanford University School of Medicine, Stanford, CA, United States, [2]Federal University of Minas Gerais, Belo Horizonte, Brazil

9:15 a.m. **6477**

IMMUNE RESPONSE KINETICS IN NEUROCYSTICERCOSIS OVER TIME POST INFECTION USING AN ANIMAL MODEL

Danitza G. Dávila-Villacorta[1], Rensson Homero Céliz-Ygnacio[1], Fabio Torres-Bocanegra[1], Valeria Alejandra Rubio[1], Alejandra Jimena Bustamante-Portocarrero[1], María Milagros Dueñas-Mendoza[1], Ayme Yadine Huaman-Navarro[1], Cesar M Gavídia[2], Robert H Gilman[3], Manuela R. Verástegui[1]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [3]The Department of International Health, Bloomberg School of Hygiene and Public Health, Johns Hopkins University,, baltimore, MD, United States

9:30 a.m. **6478**

TRANSCRIPTOMIC IDENTIFICATION OF BIOMARKERS FOR CHAGAS DISEASE PROGRESSION

Carolina Duque[1], Jill Hakim[1], Kelly DeToy[1], Shilah Waters[1], David Martin[1], Rachel Marcus[2], Manuela Verastegui[3], Robert H. Gilman[1], Monica R. Mugnier[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Medstar Union Memorial Hospital, Baltimore, MD, United States, [3]Universidad Peruana Cayetano Heredia, Lima, Peru

Symposium 104

Generating Data on Typhoid Conjugate Vaccine to Save Lives – Clinical Studies to Country Introduction

Grand Hall J - Ballroom Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Typhoid is a serious disease that disproportionately impacts children in low-resource settings in sub-Saharan Africa and South/Southeast Asia. Typhoid is primarily spread through contaminated food and water and globally, accounts for more than 9 million cases and more than 110,000 deaths each year. There is a mounting need to contain and control typhoid driven by growing antimicrobial resistant strains of Salmonella Typhi (S. Typhi) worldwide and severe adverse weather events due to climate change. Two safe, effective, and cost-effective typhoid conjugate vaccines (TCVs) are World Health Organization (WHO)-prequalified in children as young as six months. Broad introduction of TCVs is essential to combat the spread – and potentially devastating consequences – of typhoid. It is vital to empower, encourage, and facilitate typhoid-endemic countries to introduce TCVs and for decision-makers to embrace this critical tool to prevent typhoid and save lives. The Typhoid Vaccine Acceleration Consortium (TyVAC), led by the Center for Vaccine Development and Global Health at the University of Maryland, the Oxford Vaccine Group at the University of Oxford, and PATH, conducted the first clinical trials on TCVs in Africa – and two trials in Asia – to generate additional information on safety, immunogenicity, co-administration, and efficacy in different geographical settings. Data from clinical trials in diverse settings in Malawi, Nepal, and Bangladesh, show TCVs are safe, well-tolerated, and approximately 80% efficacious up to three years following a single dose. Additionally, efficacy has been demonstrated in all pediatric age groups, including children under two years of age. Trials in Malawi and Burkina Faso show TCVs can be safely co-administered with routine childhood vaccines at 9- and 15-months of age. This information informed TCV country introductions in Pakistan, Liberia, Zimbabwe, and Nepal, planned introduction in Malawi, and Gavi applications in Bangladesh and Kenya. The data generated helps guide policy and inform country decision-makers across the globe to accelerate the introduction of TCVs. This symposium will extend prior results to provide longer term efficacy data, results of alternative schedules, and early lessons learned from introduction. The objectives are to (1) provide updated data from on-going trials of TCV in Malawi and Nepal; (2) discuss lessons learned from country introductions in Malawi and Nepal; and (3) understand the importance of these data to regional and country policy makers to accelerate TCV introduction to help prevent and control typhoid. The session will begin with an overview of global policy recommendations on use of TCVs, followed by specific data from the trials and how it informed country introductions.

CHAIR
Kathleen Neuzil
University of Maryland Baltimore, Baltimore, MD, United States

Nginache Nampota
Blantyre Malaria Project, Blantyre, Malawi

8 a.m.
INTRODUCTION

8:10 a.m.
TCV INTRODUCTION – NOW IS THE TIME
Kathleen Neuzil
University of Maryland Baltimore, Baltimore, MD, United States

8:20 a.m.
IMMUNOGENICITY AND TOLERABILITY OF DIFFERENT DOSE SCHEDULES IN NEPAL
Sanjeev Bijukchhe
OUCRU – Nepal, Kathmandu, Nepal

8:35 a.m.
TCV CLINICAL TRIAL UPDATES FROM MALAWI: 4-YR EFFICACY DATA AND BOOSTER DOSE STUDY
Nginache Nampota
Blantyre Malaria Project, Blantyre, Malawi

8:50 a.m.
INTRODUCTION OF TCV IN NEPAL: LESSONS LEARNED
Mila Shakya
OUCRU – Nepal, Jhamiskhel, Lalitpur, Nepal

9:05 a.m.
MALAWI COUNTRY INTRODUCTION OF TYPHOID CONJUGATE VACCINE AND MEASLES RUBELLA
Latif Ndeketa
Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi

Symposium 105

LIVE STREAMING

Mechanisms of Protection Induced by the RTS,S/AS01 Vaccine and Identification of Host Signatures Influencing Vaccine Efficacy to Inform Next - Generation Malaria Vaccine Development

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Identifying correlates of protection following RTS,S/AS01 (RTS,S) vaccination can guide and accelerate the development of improved next-generation malaria vaccines. Antibody (Ab) and CD4+ T cell responses increase after RTS,S immunization and may be associated with protection. Ab features such as titer, affinity (avidity), and Fc-mediated effector functions (phagocytosis and NK cell activation) of anti-circumsporozoite (CSP) antibodies against the major NANP repeats of CSP are biomarkers associated with the RTS,S efficacy in controlled human malaria infection (CHMI) studies. Variations exist in vaccine responsiveness across populations and geographical areas. The emerging concept that baselines immune signatures, low-grade persistent malaria infection, and early post-vaccination signatures might play an essential role in predicting whether a vaccine will show efficacy can now be addressed using a multi-omics approach to understand why malaria vaccines exhibit variable performance. There is a need to understand the underlying immune mechanisms that contribute to malaria vaccine-elicited protection or vaccine hypo-responsiveness in endemic regions by capitalizing on recent advances in systems vaccinology and systems immunology as well as maximizing the application of big data science and bioinformatics. This symposium will first introduce to the audience the current RTS,S biomarkers identified in CHMI studies and the strategic applications of these biomarkers to vaccine development before addressing the host signatures and mechanistic factors that may influence malaria vaccine performance in malaria-endemic regions and how this critical knowledge could guide next-generation malaria vaccines development. The panel discussion will introduce the current RTS,S biomarkers as an efficient and cost-effective guideline for protection to inform the development of next-generation malaria vaccines providing high-level and durable protection. The panel will also highlight priority areas for the evaluation of the immunogenicity of malaria vaccine candidates, focusing on how to set the stage for determining the long-term efficacy of the next generation of malaria vaccines.

CHAIR
Neville Kisalu
PATH, Washington, DC, United States

Ann Moormann
University of Massachusetts Chan Medical School, Worcester, MA, United States

8 a.m.
INTRODUCTION

8:15 a.m.
CURRENT RTS,S BIOMARKERS IDENTIFIED IN CHMI TRIALS: AN OVERVIEW
Georgia D. Tomaras
Duke University, Durham, NC, United States

8:30 a.m.
STRATEGIC APPLICATION OF RTS,S BIOMARKERS TO MALARIA VACCINE DEVELOPMENT
Faith H. Osier
Imperial College London, London, United Kingdom

8:45 a.m.
ANTIBODY FUNCTIONS MEDIATING PROTECTION BY THE RTS,S MALARIA VACCINE, AND UNDERSTANDING FACTORS DETERMINING THEIR INDUCTION, MAINTENANCE, AND DECAY IN CHILDREN
Liriye Kurtovic
Burnet Institute, Melbourne, Australia

9 a.m.
ANTIBODY, CELLULAR, AND TRANSCRIPTIONAL CORRELATES OF PROTECTION IN THE RTS,S PEDIATRIC PHASE 3 TRIALS
Gemma Moncunill
ISGlobal, Barcelona, Spain

9:15 a.m.
ASSESSING TRANSCRIPTOMIC AND FUNCTIONAL DIFFERENCES BETWEEN PEDIATRIC AND ADULT NATURAL KILLER CELLS AND THEIR IMPLICATIONS FOR MALARIA VACCINE EFFICACY
Cliff Oduor
Brown University, Providence, RI, United States

9:20 a.m.
MODERATOR, PANEL DISCUSSION
Faith H. Osier
Imperial College, London, United Kingdom

John Ong'echa
Kenya Medical Research Institute, Kisumu, Kenya

Neville Kisalu
PATH, Washington, DC, United States

Scientific Session 106

Integrated Control Measures for Neglected Tropical Diseases I

Grand Hall K - Ballroom Level (East Tower)

Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Maureen Headland
FHI 360, Washington DC, United States

Dieudonne Nare
Helen Keller International, Ouagadougou, Burkina Faso

8 a.m. 6479

REDUCTION OF SEXUALLY TRANSMITTED INFECTIONS FOLLOWING AZITHROMYCIN MASS DRUG ADMINISTRATION FOR TRACHOMA IN NAURU

Lucia Romani[1], Sue-Chen Apadinuwe[2], Aisling Byrne[1], Mitchell Starr[3], Kathleen Lynch[4], Susan Star[2], Philip Cunningham[3], Stephen Lambert[4], Susana Vaz Nery[1]
[1]Kirby Institute, UNSW, Sydney, Australia, [2]Ministry of Health and Medical Services, Denig, Nauru, [3]NSW State Reference Laboratory for HIV, Sydney, Australia, [4]UQ Centre for Clinical Research, Brisbane, Australia

8:15 a.m. 6480

THE SECONDARY EFFECTS OF IVERMECTIN MDA DESIGNED FOR MALARIA ON ECTOPARASITIC INFESTATIONS IN MOPEIA, MOZAMBIQUE: A CLUSTER-RANDOMIZED CONTROLLED TRIAL

Joanna Furnival-Adams[1], Amelia Houana[2], Hansel Mundaca[1], Aina Casellas[1], Patricia Nicolas[1], Julia Montaña[1], Eldo Elobolobo[2], Samuel Martinho[1], Aida Xerinda[2], Arlindo Soares[2], Almudena Sanz[1], Victor Mutepa[1], Mary Mael[1], Felisbela Materula[2], Marta Ribes[1], Valeria Lopez[1], Antonio Macucha[2], Paula Ruiz-Castillo[1], Mussa Sale[2], Jenisse Mbanze[2], Humberto Munguambe[1], Francisco Saute[2], Regina Rabinovich[1], Daniel Engelman[3], Carlos Chaccour[1]
[1]Barcelona Institute for Global Health, Barcelona, Spain, [2]Centro de Investigação em Saúde de Manhiça (CISM), Manhica, Mozambique, [3]Murdoch Children's Research Institute, Melbourne, Australia

8:30 a.m. 6481

ASSESSING THE PREVALENCE OF SOIL TRANSMITTED HELMINTHS AND TUNGIASIS DURING LYMPHATIC FILARIASIS SURVEILLANCE IN THE COASTAL REGION OF KENYA

Michael O. Ofire[1], Wyckliff P. Omondi[2], Sultani H. Matendechero[2], Sammy M. Njenga[3], Collins O. Okoyo[3], Stella Kepha[3], Lynne Elson[4], Joseph O. Oloo[2], Gerald G. Gakuo[2]
[1]Amref Health Africa, Nairobi, Kenya, [2]Ministry of Health, Nairobi, Kenya, [3]Kenya Medical Research Institute, Nairobi, Kenya, [4]Kenya Medical Research Institute-Wellcome Trust, Nairobi, Kenya

8:45 a.m. 6482

ESTIMATING THE BURDEN OF MALARIA-HELMINTH CO-INFECTIONS AMONG CHILDREN LIVING IN A SETTING OF HIGH COVERAGE OF STANDARD INTERVENTIONS FOR MALARIA AND HELMINTHS

Muhammed O. Afolabi[1], Doudou Sow[2], Ibrahima Mbaye[3], Marie Pierre Diouf[3], Mor Absa Loum[3], Elhadj Babacar Fall[3], Amadou Seck[3], Isaac A. Manga[4], Cheikh Cisse[3], Baba Camara[5], Awa Diouf[3], Ndéye Aida Gaye[3], Aminata Colle Lo[6], Brian Greenwood[1], Jean Louis A. Ndiaye[7]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Université Gaston Berger de Saint-Louis, Saint-Louis, Senegal, [3]Université de Thies, Thies, Senegal, [4]Université Cheikh Anta Diop, Dakar, Senegal, [5]Saraya Health Centre, Saraya, Senegal, [6]Université Cheikh Anta Diop, Dakar, United Kingdom, [7]University of Thies, Thies, Senegal

9 a.m. 6483

INTEGRATED NEGLECTED TROPICAL DISEASES (NTDS) SURVEYS TO ASSESS IMPACT OF INTEGRATED MDA IN VANUATU

Elizabeth Nguyen[1], Md Saiful Islam[1], Fasihah Taleo[2], Clare Dyer[1], David S. Kennedy[1], Macklyne Katenga[3], Stephanie Tabe[3], Prudence Rymill[3], Sze F. Hii[4], Vito Colella[4], Rebecca Traub[4], Anastasia Pantelias[5], Julie Jacobson[5], John M. Kaldor[1], Susana Vaz Nery[1]
[1]Kirby Institute, University of New South Wales, Sydney, Australia, [2]World Health Organization, Port Vila, Vanuatu, [3]Ministry of Health, Government of Vanuatu, Vanuatu, [4]The University of Melbourne, Victoria, Australia, [5]Bridges to Development, Seattle, WA, United States

9:15 a.m. 6484

COMMUNITY DIALOGUE AS AN INNOVATIVE APPROACH TO IMPROVE THE EFFECTIVENESS OF NTD CONTROL PROGRAMS TO IMPROVE MDA COVERAGE FOR LF IN BURKINA FASO

Clarisse Bougouma[1], Mamadou Serme[1], Christophe Nassa[1], Kima Appolinaire[1], Zoromé Harouna[1], Cathérine Kabré[1], Ilboudo Adama[1], Georges Diminthe[2], Regina Khassanova[2], **Dieudonné Naré**[2], Micheline Ouedraogo[2], Lucien Mano[2], Elisabeth Chop[3], Angel Weng[3], Patricia Houck[3], Yaobi Zhang[3], Benoit Dembele[4], Steven D. Reid[3], Angela Weaver[3]
[1]NTD Control Program - Ministry of Health, Ouagadougou, Burkina Faso, [2]Helen Keller International, Ouagadougou, Burkina Faso, [3]Helen Keller International, New York, NY, United States, [4]Helen Keller International, Dakar, Senegal

9:30 a.m. 6485

CHARACTERISTICS OF NON-TREATED POPULATIONS AMONG SELECT NTD MDA CAMPAIGNS IN WEST AFRICA: RESULTS FROM MULTI-LEVEL MODELING USING COVERAGE EVALUATION SURVEYS

Maureen K. Headland[1], Kaustubh Wagh[1], Andres Martinez[2], Vance Harris[2], Elisabeth Chop[3], Caleb Parker[2], Diana Stukel[1]
[1]FHI 360, Washington, DC, United States, [2]FHI 360, Durham, NC, United States, [3]Helen Keller International, Washington, DC, United States

Scientific Session 107

Cestodes

Grand Hall L - Ballroom Level (East Tower)

Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Philip J. Budge
Washington University School of Medicine, St. Louis, MO, United States

Shubha Bevkal Subramanyaswamy
Weill Cornell Medicine, New York, NY, United States

8 a.m. 6486

A SEMI-QUANTITATIVE DIPSTICK ASSAY IN SERUM FOR THE FOLLOW-UP OF PATIENTS WITH SUBARACHNOID NCC

Luz M. Toribio[1], Sukwan Handali[2], Carolina Guzman[1], Erika Perez[1], Yesenia Castillo[1], Javier Bustos[1], Herbert Saavedra[3], Seth O'Neal[4], Hector H. Garcia[1]
[1]Center for Global Health, Universidad Cayetano Heredia, Lima, Peru, [2]Division of Parasitic Diseases, Center for Disease Control and Prevention, Atlanta, GA, United States, [3]Instituto Nacional de Ciencias Neurológicas, Lima, Peru, [4]Oregon Health & Sciences University-Portland State University, Portland, OR, United States

8:15 a.m. 6487

OPTIMIZATION OF A PCR ASSAY TO DETECT URINARY PARASITE DERIVATE DNA IN PATIENTS WITH NEUROCYSTICERCOSIS

Luz M. Toribio[1], Mariel Almanza[1], Isidro Gonzales[2], Alan Scott[3], Javier Bustos[1], Hector H. Garcia[1], Clive Shiff[3]
[1]Center for Global Health, Universidad Cayetano Heredia, Lima, Peru, [2]Instituto Nacional de Ciencias Neurologicas, Lima, Peru, [3]Department of Molecular Microbiology and Immunology, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

8:30 a.m. 6488

DETECTION OF TAENIA SOLIUM ANTIGENS IN PAIRED SERUM AND URINE SAMPLES FROM PATIENTS WITH NEUROCYSTICERCOSIS USING THE TSW8/TSW5 ANTIGEN ENZYME-LINKED IMMUNOSORBENT ASSAY (AG- ELISA)

Carolina Guzman[1], Luz M. Toribio[1], Yesenia Castillo[1], Mirla Villafuerte[2], Cindy Espinoza[3], Javier Bustos[1], Herbert Saavedra[4], Seth O'Neal[5], Hector Garcia[1]
[1]Center for Global Health, Universidad Peruana Cayetano Heredia, lima, Peru, [2]Hospital Nacional Edgardo Rebagliati Martins, lima, Peru, [3]Universidad Peruana Cayetano Heredia, lima, Peru, [4]Instituto Nacional de Ciencias Neurológicas, lima, Peru, [5]School of Public Health, Oregon Health & Sciences, Portland State University, Oregon, USA, Oregon, OR, United States

8:45 a.m. 6489

PRESENTATION, COMPLICATIONS, AND OUTCOMES OF CYSTIC ECHINOCOCCOSIS IN CUSCO, PERU

Roberto Pineda-Reyes[1], Angel Gamarra[2], Ramiro Hermoza[2], Rocio Cuaresma[2], Maria L. Morales[3], Karen Mozo[3], Maria A. Caravedo[1], Miguel M. Cabada[1]
[1]Infectious Disease Division, University of Texas Medical Branch, Galveston, TX, United States, [2]Hospital Regional del Cusco, Cusco, Peru, [3]Cusco Branch - Alexander von Humboldt Tropical Medicine Institute. Universidad Peruana Cayetano Heredia, Cusco, Peru

9 a.m. 6490

DEVELOPMENT OF A HIGHLY SENSITIVE QPCR ASSAY FOR DETECTION OFE. MULTILOCULARISAND FURTHER MAPPING THE EXTENT OF EUROPEAN-LIKE STRAINS IN NORTH AMERICA

Jiana Blaha[1], Sasisekhar Bennuru[1], Michael Grigg[1], Tammy Chen[1], Yang Chen[1], Stephen Raverty[2], Rick McKown[3], Brian Xi[1], Jennifer Noyes[4], Roger Ramirez Barrios[5], Elise M. O'Connell[1]
[1]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [2]Animal Health Center, Vancouver, BC, Canada, [3]USDA Meat Animal Research Center, Clay Center, NE, United States, [4]Hollins University, Roanoke, VA, United States, [5]Virginia-Maryland College of Veterinary Medicine, Virginia Tech, Blacksburg, VA, United States

9:15 a.m. 6491

EVALUATION OF ETIDRONATE IN CALCIFIED CYSTS IN THE PIG MODEL OF NEUROCYSTICERCOSIS

Laura Baquedano Santana[1], Noemi Miranda[1], Gianfranco Arroyo[1], Hector H. Garcia[2], Javier A. Bustos[2]
[1]Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Instituto Nacional de Ciencias Neurologicas, Lima, Peru

9:30 a.m. 6492

DYSREGULATED AUTOPHAGY LEADS TO AXONAL SWELLING IN NEUROCYSTICERCOSIS

Gino Castillo[1], Katty Ore[1], Oscar Ramos[1], Ana Claudia Palacios[1], Nancy Chile[1], Edson Bernal[1], Dina Luz Patilla Chihuan[1], Dina Maria Ramirez Cubas[1], Danitza Davila[1], Cesar Gavidia[2], Manuela Verastegui[1], Robert Gilman[3], Cysticercosis Working Group of Peru[1]
[1]Laboratorio de Investigación en Enfermedades Infecciosas, LID, Facultad de Ciencias y Filosofia, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Perú., Lima, Peru, [3]Department of International Health, Johns Hopkins School of Public Health, Baltimore, Maryland, USA., Baltimore, MD, United States

Scientific Session 108

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasites – Disease Mechanisms

Plaza Ballroom - Lobby Level (East Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR
Usheer Kanjee
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Vanessa Angelova
Georgetown University, Washington, DC, United States

8 a.m. 7265

CRYPTOSPORIDIUM REMODELS HOST MICROVILLI THROUGH AN EXPORTED VIRULENCE FACTOR

Elena Rodrigues, Tapoka T. Mkandawire, Kat Sala, Silvia Haase, Adam Sateriale
The Francis Crick Institute, London, United Kingdom

8:15 a.m. 7266

A SKIN-ON-CHIP ORGANOID MODEL TO UNRAVEL THE DEVELOPMENT OF DERMAL TRYPANOSOMES

Parul Sharma[1], Christelle Travaillé[2], Samy Gobaa[3], Brice Rotureau[1]
[1]Trypanosome Transmission Group, Trypanosome Cell Biology, UnitInstitut Pasteur, Paris, France, [2]BioImagerie Photonique (UTechS PBI), Institut Pas-teur, Paris, France, [3]Biomaterials and Microfluidics Core Facility, Institut Pasteur, Paris, France

8:30 a.m. 6493

EVALUATION OF APOPTOSIS IN RESPONSE TO ANTHELMINTIC TREATMENT IN RAT BRAINS EXPERIMENTALLY INFECTED WITH ONCOSPHERES OF TAENIA SOLIUM

Valeria Alejandra Rubio[1], DG Dávila-Villacorta[1], Rensson Homero Céliz-Ygnacio[1], Gino Castillo Vilca[1], Edson G. Bernal-Terán[1], Alejandra J. Bustamante-Portocarrero[1], Ayme Yadine Huaman-Navarro[1], Fabio C. Torres-Bocanegra[1], Milagros M. Dueñas-Mendoza[1], Robert H. Gilman[2], Cesar M. Gavídia[3], Manuela R. Verástegui[1], Cysticercosis Working Group in Peru[1]
[1]Infectious Diseases Laboratory Research-LID, Faculty of Science and Philosophy, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Bloomberg School of Hygiene and Public Health, Johns Hopkins University, Baltimore, MD, United States, [3]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru

8:45 a.m. 6494

LEAKY GUT MECHANISMS IN GIARDIASIS

Vanessa V. Angelova, Erqiu Li, Brooke Fiedler, Haley Wexelblatt, Rita Kosile, Matthew Darmadi, Eleanor Miskovsky, Steven Singer
Georgetown University, Washington, DC, United States

9 a.m. 6495

DISRUPTION OF HUMAN LYMPHATIC EPITHELIAL CELL CONTACT INTEGRITY PROTEINS BY FILARIAL MIRNAS

Denis Voronin, Hailey Johnson, Elodie Ghedin
Systems Genomics Section, Laboratory of Parasitic Diseases, NIAID, NIH, Bethesda, MD, United States

9:15 a.m. 6496

A HUMAN PLURIPOTENT STEM CELL DERIVED MODEL OF THE BLOOD-BRAIN BARRIER IN CEREBRAL MALARIA

Adnan Gopinadhan[1], Jason M. Hughes[2], Andrea L. Conroy[1], Chandy C. John[1], Scott G. Canfield[3], Dibyadyuti Datta[1]
[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]Indiana University School of Medicine, Terre Haute, IN, United States, [3]Indiana University School of Medicine, Terre Hatue, IN, United States

9:30 a.m. 6497

THE BRCT DOMAIN FROM LEISHMANIA MAJOR LMJPES PROMOTES MALIGNANCY AND DRUG RESISTANCE IN MAMMALIAN CELLS

Paul Nguewa[1], Esther Larrea[1], Celia Fernandez-Rubio[1], José Peña-Guerrero[1], Elizabeth Guruceaga[2]
[1]Institute of Tropical Health University of Navarra (ISTUN), Pamplona, Spain, [2]Bioinformatics Platform, Center for Applied Medical Research, University of Navarra (ISTUN), Pamplona, Spain

Scientific Session 109

Malaria - Proteins to Populations: Transmission Biology across Scales

Crystal Ballroom A - Lobby Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Hosea Akala
USAMRU-K, Kisumu, Kenya

Scott E. Lindner
Pennsylvania State University, University Park, PA, United States

8 a.m. 6498

SUPER RESOLUTION IMAGING REVEALS CYTOSKELETON REGULATION IN *PLASMODIUM* SEXUAL STAGE DEVELOPMENT

Jiahong Li, Sophie Collier, Emma Pietsch, Sash Lopaticki, Paul McMillan, James McCarthy McCarthy, Leann Tilley, **Matthew Dixon**
University of Melbourne, Melbourne, Australia

8:15 a.m. 6499

DEVELOPMENT OF AN *IN VIVO* MOUSE MODEL FOR TRANSMISSION BLOCKING STUDIES WITH HUMAN MALARIA PARASITE *P. FALCIPARUM*

Abhai K. Tripathi, Godfree Mlambo, Tassanee Thanakornsombut, George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

8:30 a.m. 6500

GLOBAL RELEASE OF TRANSLATIONAL REPRESSION ACROSS *PLASMODIUM*'S HOST-TO-VECTOR TRANSMISSION EVENT

Kelly T. Rios[1], James P. McGee[1], Kristian E. Swearingen[2], **Scott E. Lindner**[1]
[1]Pennsylvania State University, University Park, PA, United States, [2]Institute for Systems Biology, Seattle, WA, United States

8:45 a.m. 6501

DYNAMICS OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* INFECTIONS AND INFECTIOUSNESS TO MOSQUITO IN LOW TRANSMISSION SETTING OF ETHIOPIA: A LONGITUDINAL OBSERVATIONAL STUDY

Elifaged Hailemeskel[1], Surafel K. Tebeje[1], Temsgen Ashine[1], Sinknesh W. Behaksra[1], Tadele Emiru[1], Tizita Tsegaye[1], Kjerstin Lanke[2], Abrham Gashaw[1], Wakoya Chalie[1], Endashaw Esayas[1], Temesgen Tafesse[1], Mikiyas Gebremichael[1], Girma Shumie[1], Beyene Petros[3], Hassen Mamo[4], Jordache Ramjith[2], Chris Drakeley[5], Endalamaw Gadisa[1], Teun Bousema[2], Fitsum G. Tadesse[1]
[1]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [2]Radboud Institute for Health Science, Radboud University Medical Center, Nijmegen, Netherlands, [3]Department of Biomedical Sciences, College of Natural and Computational Sciences, Addis Ababa university, Addis Ababa, Ethiopia, [4]Department of Biomedical Sciences, College of Natural and Computational Sciences, Addis Ababa university, Ethiopia, Addis Ababa, Ethiopia, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom

9 a.m. 6502

EFFECT OF CHLOROQUINE ON *PLASMODIUM VIVAX* PARASITE TRANSMISSION TO MOSQUITOES IN THE EARLY POST-TREATMENT HOURS, ARBA MINCH, ETHIOPIA

Girum Datanbo[1], Biniam Wondale[1], Nigatu Eligo[1], Endalamaw Gadisa[2], Bernt Lindtjørn[3], Fitsum Girma[2], Fekadu Massebo[1]
[1]Arba Minch University, Arba Minch, Ethiopia, [2]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [3]Centre for International Health, University of Bergen, Norway

9:15 a.m. 6503

CLINICAL INVESTIGATION STUDY TO EVALUATE THE CONSISTENCY AND REPRODUCIBILITY OF TWO CONSECUTIVE MOSQUITO FEEDING ASSAYS IN ADULTS WITH VARYING *PLASMODIUM FALCIPARUM* GAMETOCYTE DENSITIES

Hosea M. Akala[1], **Millicent Anyango Achola**[1], Ben M. Andagalu[1], Mike Raine[2], Valerie Moore Moore[2], Yimin Wu[2], Benjamin H. Opot[1], Raphael O. Okoth[3], Jackline A. Juma[1], Edwin W. Mwakio[4], Maurine Mwalo A. Mwalo[1], David O. Oullo[1], Fredrick L. Eyase L. Eyase[1], Lucas Otieno Tina[1], Amanda Roth[5], Nathanial Copeland[1], James Mutunga[1], Irene onyango[1], Jaree Johnson[6], Bernhards Ogutu[7], Timothy E. Egbo[8], Jack hutter[8], John Aponte[2], Christian F. Ockenhouse[2]
[1]Department of Emerging and Infectious Diseases (DEID), United States Army Medical Research Directorate-Africa (USAMRD-A), Kenya Medical Research Institute (KEMRI) / Walter Reed Project, Kisumu, Kenya., KISUMU, Kenya, [2]PATH, Seattle, WA, USA, SEATTLE, WA, United States, [3]1Department of Emerging and Infectious Diseases (DEID), United States Army Medical Research Directorate-Africa (USAMRD-A), Kenya Medical Research Institute (KEMRI) / Walter Reed Project, Kisumu, Kenya., KISUMU, Kenya, [4]Department of Emerging and Infectious Diseases (DEID), United States Army Medical Research Directorate-Africa (USAMRD-A), Kenya Medical Research Institute (KEMRI) / Walter Reed

Project, Kisumu, Kenya, KISUMU, Kenya, [5]Medical Communications for Combat Casualty Care, 1540 Porter Street, Fort Detrick MD 21702, Fort Detrick, WA, United States, [6]Armed Forces Pest Management Board 2460 Linden Ln, Silver Spring, MD 20910, Washington, WA, United States, [7]Centre for Clinical Research, Kenya Medical Research Institute, Kisumu, Kenya, KISUMU, Kenya, [8]United States Army Medical Research Directorate-Africa, Kenya (USAMRD-A)., KISUMU, Kenya

9:30 a.m. 6504

HYPER-DIVERSE ANTIGENIC VARIATION AND RESILIENCE TO TRANSMISSION-REDUCING INTERVENTION IN FALCIPARUM MALARIA

Qi Zhan[1], Kathryn Tiedje[2], Qixin He[3], Karen Day[2], Mercedes Pascual[1]
[1]University of Chicago, Chicago, IL, United States, [2]The University of Melbourne, Melbourne, Australia, [3]Purdue University, West Lafayette, IN, United States

Scientific Session 110

Clinical Tropical Medicine: Arboviral Infections

Crystal Ballroom B - Lobby Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Rapeephan Maude
Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Maria Caravedo
University of Texas Medical Branch, Galveston, TX, United States

8 a.m. 6505

DENGUE SEVERITY BY SEROTYPE IN 17 YEARS OF A PEDIATRIC HOSPITAL STUDY IN NICARAGUA

Federico Narvaez[1], Karla Gonzalez[2], Elsa Videa[1], Cesar Narvaez[1], Sonia Arguello[1], Carlos Montenegro[1], Jose Juarez[1], Eva Harris[3], Angel Balmaseda[2]
[1]Sustainable Science Institute, Managua, Nicaragua, [2]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, [3]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

8:15 a.m. 6506

COMPARATIVE EVALUATION OF FIVE RAPID DIAGNOSTIC TESTS FOR DENGUE DIAGNOSIS

Jyotshna Sapkota[1], Rumina Hasan[2], Zahida Azizullah[2], Hina Shams[2], Berra Erkosar[1], Sabine Dittrich[3], Kevin Tetteh[1]
[1]FIND, Geneva, Switzerland, [2]Aga Khan University, Karachi, Pakistan, [3]Deggendorf Institut of Technology, Pffarrkirchen, Germany

8:30 a.m. 6507

POTENTIAL UTILITY OF CONTINUOUS PPG MONITORING IN THE MANAGEMENT OF SEVERE DENGUE

Ngan H. Lyle[1], Chanh Q. Ho[1], Huy Q. Nguyen[1], Giang T. Nguyen[1], Huyen T. Vu[1], Van-Khoa D. Le[1], Damien K. Ming[2], Stefan Karolcik[3], Hao V. Nguyen[4], Qui T. Phan[4], Trieu T. Huynh[4], Sophie Yacoub[1]
[1]Oxford Clinical Research Unit Vietnam, Ho Chi Minh City, Vietnam, [2]Centre for Antimicrobial Optimisation (CAMO), Imperial College London, London, United Kingdom, [3]Centre for Bio-Inspired Technology, Imperial College London, London, United Kingdom, [4]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

8:45 a.m. 6508

METFORMIN AS ADJUNCTIVE THERAPY IN OVERWEIGHT AND OBESE PATIENTS WITH DENGUE: AN OPEN-LABEL SAFETY AND TOLERABILITY TRIAL (MEDO)

Tam Dong Thi Hoai[1], Nguyet Nguyen Minh[1], Phong Nguyen Thanh[2], Tai Luong Thi Hue[2], Tam Cao Thi[2], Kieu Nguyen Tan Thanh[1], Thuy Huynh Le Phuong[1], Van Nguyen Thanh[1], Chau Nguyen Thi Xuan[1], Chanh Ho Quang[1], Duyen Huynh Thi Le[1], Vi Tran Thuy[1], Ronald Geskus[1], Evelyne Kestelyn[1], Vuong Nguyen Lam[1], Sophie Yacoub[1]
[1]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [2]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

9 a.m. 6509

AFTERSHOCK: PERSISTENT INFLAMMATION AND ENDOTHELIAL ACTIVATION IN ADULT SURVIVORS OF DENGUE SHOCK

Angela McBride[1], Phan Vinh Tho[2], Luong Thi Hue Tai[2], Nguyen Thanh Phong[2], Nguyen Thanh Ngoc[3], Duyen Huynh Thi Le[3], Nguyen Lam Vuong[3], Louise Thwaites[3], Martin J Llewelyn[1], Nguyen Van Hao[4], Sophie Yacoub[3]
[1]Brighton and Sussex Medical School, Brighton, United Kingdom, [2]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, [3]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [4]University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam

9:15 a.m. 6510

NEURODEVELOPMENTAL OUTCOMES IN TWO YEAR OLD CHILDREN BORN DURING THE ZIKA EPIDEMIC IN BRAZIL: A PROSPECTIVE COHORT STUDY

Nivison Ruy R. Nery Jr[1], Pablo Aguilar[2], Claudia G. Sampaney[3], Millani S. A. Lessa[2], Adeolu Aromolaran[3], Valmir Rastely-Júnior[1], Gielson A. Sacramento[1], Jaqueline S. Cruz[1], Daiana de Oliveira[1], Laiara Lopes dos Santos[1], Crislaine G. da Silva[1], Adriana Mattos[4], Bruno Freitas[4], Joseane Bouzon[4], Ailema Guerra[4], Viviane F. Botosso[5], Camila P. Soares[6], Danielle B. Oliveira[5], Danielle Bastos Araujo[6], Rubens Prince dos Santos Alves[7], Robert Andreata-Santos[7], Edison L. Durigon[5], Luís Carlos de Souza Ferreira[7], Elsio A. Wunder, Jr.[3], Ricardo Khouri[1], Jamary Oliveira-Filho[8], Isadora C. de Siqueira[1], Antônio R. P. Almeida[4], Derek A.T. Cummings[9], Mitermayer G. Reis[1], Federico Costa[2], Albert I. Ko[3]
[1]Goncalo Moniz Institute, Salvador, Brazil, [2]Institute of Collective Health, Federal University of Bahia, Salvador, Brazil, [3]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, [4]Roberto Santos General Hospital, Salvador, Brazil, [5]Development and Innovation Center, Laboratory of Virology, Butantan Institute, São Paulo, Brazil, [6]Department of Microbiology. Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil, [7]Vaccine Development Laboratory, Department of Microbiology, Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil, [8]Faculty of Medicine of Bahia, Federal University of Bahia, Salvador, Brazil, [9]Department of Biology, University of Florida, Gainesville, FL, United States

9:30 a.m. 6511

PERSISTENT RHEUMATOLOGICAL DISEASE AFTER 7 YEARS OF CHIKUNGUNYA VIRUS INFECTION: RESULTS FROM A COHORT STUDY IN PIEDECUESTA, COLOMBIA

Anyela Lozano-Parra[1], Carlos Andrés Calderón[2], Reynaldo Badillo[3], Luis Angel Villar[2], Victor Herrera[4], Rosa Margarita Gelvez[2], Jose Fernando Lozano[2], Maria Isabel Estupiñan[2], **Elsa Marina Rojas**[2]
[1]Centro de Investigaciones Epidemiológicas, Universidad Industrial de Santander, Bucaramanga, Colombia, [2]Centro de Atención y Diagnóstico de Enfermedades Infecciosas-CDI, Fundación INFOVIDA, Bucaramanga, Colombia, [3]RBA. Director Departamento Medicina Interna. Universidad de Santander-UDES, Bucaramanga, Colombia, [4]Department of Public Health, Universidad Industrial de Santander, Bucaramanga, Colombia

Symposium 111

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium I: Annual Business Meeting

Regency Ballroom A - Ballroom Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The American Committee on Arthropod-Borne Viruses (ACAV) provides a forum for exchanging information among people interested in arbovirus research and research in diseases caused by high consequence viral pathogens. This session will include the ACAV business meeting, award presentations, research presentations by ACAV award recipients, and outbreak reports. These presenters will describe their research on arbovirology and emerging viral diseases.

CHAIR
Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States
Mauricio Lacerda Nogueira
Faculdade de Medicina de São José do Rio Preto (FAMERP), Sao Paulo, Brazil

8 a.m.
INTRODUCTION

8:10 a.m.
ACAV AWARDS AND BUSINESS MEETING
Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

8:40 a.m.
AN OVERVIEW OF THE EMERGENCE OF ARBOVIRUSES IN LATIN-AMERICA
Jairo Mendez-Rico
PAHO/WHO Collaborating Centre for Arboviruses, Washington, DC, United States

8:55 a.m.
STRUCTURAL BIOLOGY OF ARBOVIRUSES OF MEDICAL INTEREST
Rafael Elias Marques
Brazilian Center for Research in Energy and Materials, Sao Paulo, Brazil

9:10 a.m.
AUDIENCE AND PANEL DISCUSSION: CHALLENGES AND LESSONS LEARNED FOR RESEARCH AND OPERATIONAL SUPPORT
Mauricio Lacerda Nogueira
Faculty of Medicine of São José do Rio Preto, Sao Paulo, Brazil

9:25 a.m.
CO-MODERATOR: AUDIENCE AND PANEL DISCUSSION: CHALLENGES AND LESSONS LEARNED FOR RESEARCH AND OPERATIONAL SUPPORT
Rebecca Christofferson
LSU School of Veterinary Medicine, Baton Rouge, LA, United States

9:35 a.m.
NETWORKING RECEPTION

Scientific Session 112

Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Interventions

Regency Ballroom B - Ballroom Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Drew Capone
Indiana University, Bloomington, IN, United States
Anna Nguyen
Stanford University, Stanford, CA, United States

8 a.m. 6512

MAPUTO SANITATION TRIAL 60-MONTH FOLLOW-UP ANTHROPOMETRIC MEASUREMENTS AND CHILD HEALTH
Erin Kowalsky[1], Drew Capone[2], Oliver Cumming[3], Márcia Chiluvane[4], Victória Cumbane Cumbane[5], David Holcomb[1], Amanda Lai[1], Yarrow Linden[1], Elly Mataveia Mataveia[5], Vanessa Monteiro[5], Gouthami Rao[1], Edna Viegas[5], Joe Brown[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Indiana University, Bloomington, IN, United States, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Instituto Nacional de Saúde, Mozambique, Maputpo, Mozambique, [5]Instituto Nacional de Saúde, Mozambique, Maputo, Mozambique

8:15 a.m. 6513

EFFECT OF A WATER, SANITATION AND HYGIENE PROGRAM ON HANDWASHING WITH SOAP AMONG DIARRHEA PATIENTS AND ATTENDANTS IN HEALTHCARE FACILITIES IN THE DEMOCRATIC REPUBLIC OF THE CONGO: A RANDOMIZED PILOT OF THE PICHA7 PROGRAM
Alain Mwishingo[1], Kelly Endres[2], Presence Sanvura[1], Jean-Claude Bisimwa[1], Lucien Bisimwa[1], Camille Williams[2], Jamie Perin[2], Justin Bengehya[1], Cirhuza Cikomola[1], Ghislain Maheshe[1], Christine Marie George[2]
[1]Université Catholique de Bukavu, Bukavu, Democratic Republic of the Congo, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

8:30 a.m. 6514

THE LONG-TERM EFFECTS OF IMPROVED WATER, SANITATION, AND HYGIENE (WASH) AND IMPROVED COMPLEMENTARY FEEDING ON SCHOOL-AGE GROWTH AND DEVELOPMENT IN RURAL ZIMBABWE: FOLLOW-UP OF THE SHINE CLUSTER-RANDOMIZED TRIAL
Joseph Daniel Piper[1], Clever Mazhanga[2], Marian Mwapaura[2], Idah Mapurisa[2], Gloria Mapako[2], Tsitsi Mashedze[2], Eunice Munyama[2], Maria Kuona[2], Thomizodwa Mashiri[2], Kundai Sibanda[2], Dzidzai Matemavi[2], Monica Tichagwa[2], Soneni Nyoni[2], Asinje Saidi[2], Mwanasa Mangwende[2], Dzvaidzo Chidhanguro[2], Eddington Mpofu[2], Joice Tome[2], Batsirai Mutasa[2], Bernard Chasekwa[2], Melanie Smuk[1], Laura Smith[2], Virginia Sauramba[2], Lisa Langhaug[2], Naume Tavengwa[2], Melissa Gladstone[3], Jonathan Wells[4], Elizabeth Allen[5], SHINE Follow-up trial Team[2], Jean Humphrey[6], Robert Ntozini[2], Andrew Prendergast[1]
[1]Queen Mary University of London, LONDON, United Kingdom, [2]Zvitambo Institute of Maternal and Child Health Research, Harare, Zimbabwe, [3]University of Liverpool, Liverpool, United Kingdom, [4]UCL Institute of Child Health, LONDON, United Kingdom, [5]London School of Hygiene & Tropical Medicine, LONDON, United Kingdom, [6]Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

8:45 a.m. 6515

SURPRISE SOAP: EFFECT OF A NOVEL HYGIENE INTERVENTION ON OLDER CHILDREN'S HANDWASHING IN COMPLEX HUMANITARIAN SETTINGS: RESULTS OF TWO CLUSTER-RANDOMIZED CONTROLLED EQUIVALENCE TRIALS

Julie Watson[1], Claudio Deola[2], Mohamed Abji Haji[3], Mohamed Rashid Sheikh[3], Feysal Abdisalan Mohamud[3], Salman Yasin Ali[3], Ibtihal Osman[4], Maud Akissi Amon-Tanoh[1], Amy MacDougall[1], Oliver Cumming[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Save the Children International, London, United Kingdom, [3]Action Against Hunger, Mogadishu, Somalia, [4]Care International, Khartoum, Sudan

9 a.m. 6516

EFFECTIVENESS OF SEWAGE INTERVENTION ON LEPTOSPIRA TRANSMISSION AMONG RESIDENTS OF URBAN INFORMAL SETTLEMENTS

Fábio N. Souza[1], Freya Clark[2], Max T. Eyre[3], Juliet O. Santana[4], Nivison Nery[4], Fabiana A. Palma[4], Daiana Oliveira[1], Jaqueline S. Cruz[5], Mitermayer G. Reis[5], Emanuele Giorgi[2], Cleber Cremonese[1], Albert I. Ko[6], Federico Costa[1]
[1]Institute Collective Health, Federal University of Bahia, Salvador, Brazil, [2]Centre for Health Informatics, Computing, and Statistics, Lancaster University Medical School Lancaster, Lancaster, United Kingdom, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Institute Collective Health,Federal University of Bahia, Salvador, Brazil, [5]Instituto Gonçalo Moniz, Fundação Oswaldo Cruz, Salvador, Brazil, [6]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

9:15 a.m. 6517

IMPACT OF THE WASH IN SCHOOLS FOR EVERYONE (WISE) PROGRAMME ON CHILD HEALTH AND SCHOOL ATTENDANCE IN ADDIS ABABA, ETHIOPIA: A CLUSTER-RANDOMISED CONTROLLED TRIAL

Sarah Bick[1], Charles Opondo[1], Baptiste Leurent[2], Oliver Cumming[1], Alem Ezezew[3], Elizabeth Allen[1], Robert Dreibelbis[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University College London, London, United Kingdom, [3]Holster International Research and Development Consultancy, Addis Ababa, Ethiopia

9:30 a.m. 6518

PROCESS EVALUATION OF THE PREVENTATIVE INTERVENTION FOR CHOLERA FOR 7 DAYS (PICHA7) WATER, SANITATION AND HYGIENE MOBILE HEALTH PROGRAM

Presence Sanvura[1], Kelly Endres[2], Jean-Claude Bisimwa[1], Alain Mwishingo[1], Lucien Bisimwa[1], Camille Williams[2], Jamie Perin[2], Justin Bengehya[1], Cirhuza Cikomola[1], Ghislain Maheshe[1], Christine Marie George[2]
[1]Université Catholique de Bukavu, Bukavu, Democratic Republic of the Congo, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Scientific Session 113

Ectoparasite-Borne Diseases II

Regency Ballroom C - Ballroom Level (West Tower)

Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Adélaïde Miarinjara
Emory University, Atlanta, GA, United States

Holly Tuten
University of Illinois Urbana-Champaign, Champaign, IL, United States

8 a.m. 6519

BACTERIAL ZOONOSES DETECTED BY 16S RRNA METAGENOMICS AMONG FEBRILE ADMISSIONS IN KILIMANJARO, TANZANIA, 2007-2009

Robert J. Rolfe, Jr[1], Matthew P. Rubach[1], Venance P. Maro[2], Grace Kinabo[2], Wilbrod Saganda[3], Jeannine M. Petersen[4], Luke C. Kingry[4], Sarah Sheldon[4], John A. Crump[5]
[1]Duke University, Durham, NC, United States, [2]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, [3]Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, [4]Bacterial Diseases Branch, Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States, [5]Centre for International Health, University of Otago, Denedin, New Zealand

8:15 a.m. 6520

DETERMINING FLEA VECTOR SUSCEPTIBILITY TO INSECTICIDES AS PART OF PLAGUE RISK MONITORING IN MADAGASCAR

Mireille Harimalala[1], Soanandrasana Rahelinirina[2], Sarah Zohdy[3], Minoarisoa Rajerison[2], Romain Girod[1]
[1]Medical Entomology Unit, Institut Pasteur de Madagascar, Antananarivo, Madagascar, [2]Plague Unit, Institut Pasteur de Madagascar, Antananarivo, Madagascar, [3]US President's Malaria Initiative, Malaria Branch, US Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m. 6521

RISK FACTORS ASSOCIATED WITH RURAL HOUSEHOLD FLEA INFESTATIONS IN THE PLAGUE ENDEMIC AREA OF MADAGASCAR

Adélaïde Miarinjara[1], Annick O. Raveloson[2], Stephen G. Mugel[1], Nick An[1], Andry Andriamiadanarivo[3], Romain Girod[2], Thomas R. Gillespie[1]
[1]Emory University, Atlanta, GA, United States, [2]Institut Pasteur de Madagascar, Antananarivo, Madagascar, [3]Centre ValBio Ranomafana, Ranomafana, Madagascar

8:45 a.m. 6522

SURVEILLANCE FOR METASTRIATE TICKS AND SPOTTED FEVER GROUP RICKETTSIOSES IN SOUTHERN ILLINOIS

Victoria Phillips[1], Matt Flenniken[1], Levi Mick[1], Leta Chesser[1], Edna Alfaro[1], Chang-Hyun Kim[1], April Holmes[2], Samantha Kerr[2], Holly Gaff[3], Brian Allan[1], Chris Stone[1], **Holly Tuten**[1]
[1]University of Illinois Urbana-Champaign, Champaign, IL, United States, [2]Illinois Department of Public Health, Springfield, IL, United States, [3]Old Dominion University, Norfolk, VA, United States

9 a.m. 6523

SEROLOGIC TESTING FOR THE DIAGNOSIS OF BARTONELLA INFECTIONS IN PATIENTS IN MARYLAND

Kristin E. Mullins, Robert H. Christenson
University of Maryland School of Medicine, Baltimore, MD, United States

9:15 a.m. 6524

MOLECULAR SURVEY OF ANAPLASMATACEAE AGENTS AND BARTONELLA SPP IN COATISNASUA NASUA FROM URBAN FORESTED AREAS IN BRAZIL

Lívia Perles[1], Wanessa Barreto[2], Gabriel de Macedo[3], Heitor Herrera[3], Rosangela Machado[1], **Marcos Rogério André**[1]
[1]Universidade Estadual Paulista (UNESP), Jaboticabal, Brazil, [2]Universidade Federal do Mato Grosso do Sul, Campo Grande, Brazil, [3]Universidade Católica Dom Bosco, Campo Grande, Brazil

9:30 a.m. 6525

DOGS AS RICKETTSIA SPP. SENTINELS IN A PERUVIAN AMAZON NATURAL RESERVE BUFFER ZONE

Oliver A. Bocanegra[1], Cusi Ferradas[1], Winnie Contreras[1], Diana León-Luna[1], Andres M. Lopez[2], Raul Bello[3], Andres G. Lescano[1]
[1]Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA, United States, [3]Kawsay Biological Station, Puerto Maldonado, Peru

Symposium 114

The Many Paths to *P. falciparum* Artemisinin Resistance: Lessons Learned from Asia with Implications for Africa

Regency Ballroom D - Ballroom Level (West Tower)
Saturday, October 21, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The emergence of resistance to the artemisinin derivatives and their partner drugs threatens recent progress toward regional malaria elimination and eventual global malaria eradication. In the 15 years since artemisinin resistance was first reported in the Greater Mekong Subregion, substantial progress has been made in understanding the molecular mechanisms underlying resistance and its emergence and spread through populations. Prior studies have identified multiple genomic regions and differentially expressed genes associated with artemisinin resistance phenotypes, and forward genetic screens continue to provide insights into the function and biological relevance of these genes. These studies have indicated that artemisinin resistance is a multigenic trait, with multiple biological processes contributing to parasite resistance to artemisinin-induced damage and/or the fitness of resistant parasites. A recent meta-analysis of population genomic and transcriptomic studies indicated an enrichment of predicted favored mutations in genes encoding products involved in endocytosis, vesicular trafficking, oxidative stress response, DNA repair and host cell remodeling. Transcriptomic studies have observed similar enriched functions with 156 differentially expressed genes defining the Artemisinin Resistance Transcriptional Profile (ARTP) in Southeast Asian parasites. Functional studies have also implicated altered isoprenoid biosynthesis, RNA processing, DNA repair, and mitochondrial processes in artemisinin resistance, and have identified links between artemisinin resistance and increased gametocytogenesis, potentially facilitating resistance spread by providing a transmission advantage to resistant parasites. With the emergence of artemisinin resistance in areas of sub-Saharan Africa, it is critical to consider how our increased understanding of artemisinin resistance can be leveraged to monitor and control the emergence and spread of resistance in these high malaria burden areas. In this symposium, we will discuss new insights into the contribution of transcriptional regulation to artemisinin resistance, the relationship between artemisinin susceptibility and gametocytogenesis, genomic surveillance approaches that account for the multigenic mechanisms of resistance, and the implications of these findings for efforts to counter resistance in high-burden African settings.

CHAIR
John H. Adams
University of South Florida, Tampa, FL, United States
Zbynek Bozdech
Nanyang Technological University, Singapore, Singapore

8 a.m.
INTRODUCTION

8:10 a.m.
CONTRIBUTION OF EPIGENETICS AND TRANSCRIPTIONAL REGULATION TO ARTEMISININ RESISTANCE
Zbynek Bozdech
Nanyang Technological University, Singapore, Singapore

8:30 a.m.
FORWARD GENETIC SCREENS OF *P. FALCIPARUM* MUTANT LIBRARIES LINK THE GENETIC BASIS OF ARTEMISININ SENSITIVITY TO INCREASED GAMETOCYTOGENESIS
Camilla V. Pires
University of South Florida, Tampa, FL, United States

8:45 a.m.
A GENETIC LINK BETWEEN MALARIA TRANSMISSION AND ARTEMISININ RESISTANCE
Lauriane Sollelis
University of Zurich, Zurich, Switzerland

9 a.m.
IMPLICATIONS OF THE MULTIGENIC MECHANISM OF ARTEMISININ RESISTANCE FOR GENOMIC SURVEILLANCE: MOVING BEYOND A CANDIDATE GENE APPROACH
Shannon Takala Harrison
University of Maryland School of Medicine, Baltimore, MD, United States

9:15 a.m.
MECHANISMS OF ARTEMISININ RESISTANCE EMERGENCE AND SPREAD: IMPLICATIONS FOR MONITORING AND COUNTERING RESISTANCE IN AFRICA
Abdoulaye Djimde
University of Bamako, Bamako, Mali

Exhibit Hall Open

Riverside Center - Exhibit Level (East Tower)
Saturday, October 21, 9:30 a.m. - 10:30 a.m. U.S. Central Time Zone

Coffee Break

Riverside Center - Exhibit Level (East Tower)
Saturday, October 21, 9:45 a.m. - 10:15 a.m. U.S. Central Time Zone

Poster Session C Set-Up

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 9:45 a.m. - 10:15 a.m.

Poster Session C Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 10:15 a.m. – 11 a.m.

Plenary Session 115

LIVE STREAMING

Plenary Session IV: Presidents' Address: A Forward Look from the Society's Present and Past Presidents

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 10:15 a.m. - 11 a.m. U.S. Central Time Zone

This session does not carry CME credit.

Each year at the ASTMH Annual Meeting, the President addresses Society members with an update and reflections. This year, however, we will broaden the format and outlook by calling on the wisdom of the ages: Current President Daniel Bausch will bring to the stage a group of ASTMH Past Presidents and lead an informal discussion on the state of the world of tropical medicine and global health. Don't miss this opportunity to hear this illustrious group of leaders from diverse disciplines discuss the challenges and opportunities facing our planet and Society, and the Society's role in meeting them.

CHAIR
Daniel G. Bausch
FIND, Geneva, Switzerland

10:15 a.m.
MODERATOR
Daniel G. Bausch
FIND, Geneva, Switzerland

PANEL

Past President (2021)
Julie Jacobson
Bridges to Development, Seattle, WA, United States

Past President (2019)
Chandy John
Indiana University, Indianapolis, IN, United States

Past President (2012)
James Kazura
Case Western Reserve University, Cleveland, OH, United States

Past President (2018)
Regina Rabinovich
Harvard T.H. Chan School of Public Health/ISGlobal, Boston, MA, United States

Past President (2013)
David Walker
Department of Pathology, University of Texas Medical Branch at Galveston, Galveston, TX, United States

Exhibit Hall Open (Light Lunch)

Riverside Center - Exhibit Level (East Tower)
Saturday, October 21, 11 a.m. - 12:30 p.m.

Poster Session 116

Poster Session C Presentations

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 11 a.m. - 12:45 p.m. U.S. Central Time Zone

Poster Session C Directory

- Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 6526- 6543
- Global Health – Other: 6544- 6569
- Global Health - Planetary Health including Climate Change: 6570- 6578
- Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 6579- 6603
- Arthropods/Entomology – Other: 6604- 6614
- Mosquitoes - Biology, Physiology and Immunity: 6615- 6626
- Mosquitoes - Bionomics, Behavior and Surveillance: 6627- 6648
- Mosquitoes - Epidemiology and Vector Control: 6649- 6677
- Ectoparasite-Borne Disease – Other: 6678- 6688
- Viruses - Emerging Viral Diseases: 6689- 6706
- Viruses – Epidemiology: 6707- 6722
- Viruses - Field and ecological studies of viruses, including surveillance and spillover risk and emergence: 6723- 6736
- Viruses – Immunology: 6737- 6751
- Viruses - Transmission Biology: 6752- 6761
- Viruses - Vaccine Clinical Trials: 6762- 6769
- Malaria - Antimalarial Resistance and Chemotherapy: 6770- 6789
- Malaria - Diagnosis - Challenges and Innovations: 6790- 6809
- Malaria - Drug Development and Clinical Trials: 6810- 6821
- Malaria – Elimination: 6822- 6837
- Malaria – Epidemiology: 6838- 6863
- Malaria - Genetics, Genomics and Evolution: 6864- 6879
- Malaria – Immunology: 6880- 6890
- Malaria – Pathogenesis: 6891- 6900
- Malaria – Prevention: 6901- 6926
- Malaria – Surveillance and Data Utilization: 6927- 6947
- Malaria - Vaccines and Immunotherapeutics: 6948- 6961
- Bacteriology - Enteric Infections: 6962- 6974
- Bacteriology - Systemic Infections: 6975- 6985
- Cestodes (including taeniasis and cysticercosis, echinococcosis/hydatid disease, and others): 6986- 6998
- Clinical Tropical Medicine: 6999- 7016
- Helminths – Nematodes – Filariasis (Cellular and Molecular Biology): 7017- 7019
- Helminths – Nematodes – Filariasis (Clinical): 7020-7027
- Helminths – Nematodes – Filariasis (Other): 7028-7039
- Integrated Control Measures for Neglected Tropical Diseases (NTDs): 7040-7051
- Kinetoplastida and Other Protozoa - Epidemiology (Including Leishmania and Trypanosomes): 7052-7066
- One Health: The Interconnection between People, Animals, Plants and Their Shared Environment: 7067-7077
- Pneumonia, Respiratory Infections and Tuberculosis: 7078-7092
- Schistosomiasis and Other Trematodes – Epidemiology and Control: 7093-7102
- Water, Sanitation, Hygiene and Environmental Health: 7103-7112

Global Health - Information/ Communication/Technologies Solutions in Global Health including Modeling

6526

BIOMETRICS DATA COLLECTION FOR TRACHOMATOUS TRICHIASIS (TT) SURGERY PROGRAM IN OROMIA, SNNP AND SIDAMA REGIONS, ETHIOPIA: LESSONS LEARNT

Nigusie Fetene, Dawit Seyum Buda, Belay Bayissasse, Mulatu Gebre, Getachew Mekonnen, Doris Macharia, Alemayehu Sisay
Orbis, Addis Ababa, Ethiopia

6527

SPATIAL VARIATION IN HOUSING CONSTRUCTION MATERIAL IN LOW- AND MIDDLE-INCOME COUNTRIES: A BAYESIAN PREDICTION MODEL OF A KEY INFECTIOUS DISEASES RISK FACTOR AND SOCIAL DETERMINANT OF HEALTH

Josh Michael Colston[1], Bin Fang[2], Margaret Kosek[1], Venkataraman Lakshmi[2]
[1]University of Virginia School of Medicine, Charlottesville, VA, United States, [2]University of Virginia, Charlottesville, VA, United States

6528

USE OF MATHEMATICAL MODELING TO INFORM INSECTICIDE-TREATED BEDNET DISTRIBUTION CAMPAIGNS: A HAITIAN CASE STUDY

Billy Bauzile[1], Clara Champagne[1], Punam Amratia[2], Ewan Cameron[2], Peter Gething[2], Nick Ruktanonchai[3], Marc A. Telfort[4], Valerian Turbé[5], Justin T. Lana[6], Emilie Pothin[1]
[1]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [2]Malaria Atlas Project, Telethon kids Institute, Perth Children's Hospital, Perth, Australia, [3]Virginia Tech, Blacksburg, Virginia, VA, United States, [4]Programme National de Contrôle de la Malaria, Ministère de la Santé Publique et de la Population, Port-au-Prince, Haiti, [5]Clinton Health Access Initiative, Port-au-Prince, Haiti, [6]Clinton Health Access Initiative, Panama, Panama

6529

NET WORTH: A MODELING EXPLORATION OF COST AND COST-EFFECTIVENESS IN INSECTICIDE-TREATED NET INTERVENTIONS

Amelia Bertozzi-Villa, Daniel Bridenbecker, Caitlin Bever
Institute for Disease Modeling, Seattle, WA, United States

6530

MULTIFACETED INTERVENTIONS FOR UNINTERRUPTED MALARIA COMMODITIES: LESSONS FROM MALAWI

Daniel Taddesse[1], Elias Mwalabu[1], Fikadu Deme[1], Lumbani Makwakwa[2], Charles Nzawa[1], Lumbani Munthali,[3]
[1]USAID Global Health Supply Chain Program-Procurement and Supply Management (GHSC-PSM) project., Washington DC, DC, United States, [2]USAID, Washington DC, DC, United States, [3]Ministry of Health Malawi, Lilongwe, Malawi

6531

MULTI-OBJECTIVE CALIBRATION OF THE AGENT-BASED MALARIA TRANSMISSION MODEL, EMOD, TO SYMPTOM, PARASITE, GAMETOCYTE, AND MOSQUITO INFECTION DATA FROM A TRIAL OF ASYMPTOMATIC SCREENING IN SAPONE, BURKINA FASO

Tobias M. Holden[1], Katharine A. Collins[2], Teun Bousema[2], Chris Drakeley[3], Aurélien Cavelan[4], Melissa Penny[4], Anne Stahlfeld[1], Manuela Runge[1], Jaline Gerardin[1]
[1]Northwestern University, Chicago, IL, United States, [2]Radboud University Medical Center, Nijmegen, Netherlands, [3]London School of Tropical Medicine and Hygiene, London, United Kingdom, [4]Swiss Tropical and Public Health Institute, Allschwil, Switzerland

6532

IMPLEMENTING A LARGE-SCALE COMMUNITY DIGITAL HEALTH PLATFORM IN MOZAMBIQUE: LESSONS LEARNT FROM UPSCALE

Maria Rodrigues
Malaria Consortium, MAPUTO, Mozambique

6533

PREDICTIVE MODEL FOR REAL WORLDPERFORMANCE OF RAPID ANTIGEN TESTS BASED ON LABORATORY EVALUATION

Irene Bosch, Miguel Bosch, Dawlyn Garcia, Lindsey Rudtner, Nol Salcedo, Sina Hoche, Jose G Arocha, Helena de Puig, Helena del Corral, Lee Gehrke, Alfred Harding, Laura Holberger
IDX20 Inc., Boston, MA, United States

6534

EVALUATING A DHIS2 BASED PLATFORM FOR REAL TIME MONITORING OF MASS DRUG ADMINISTRATION OF NEGLECTED TROPICAL DISEASES MEDICINES: LEARNINGS FROM NIGERIA

Martins Imhansoloeva[1], Christian Nwosu[1], Ruth Dixon[2], Omosefe Osinoiki[1], Chukwuma Anyaike[3], Perpetua Amodu-Agbi[3], Ununumah Egbelu[3], Richard Selby[4], Sarah Bartlett[4], Sunday Isiyaku[4]
[1]Sightsavers, Abuja, Nigeria, [2]Technopolis, Brighton, United Kingdom, [3]Federal Ministry of Health, Abuja, Nigeria, [4]Sightsavers, Haywards Heath, United Kingdom

6535

A PROBABILISTIC FRAMEWORK OF MALARIA EPIDEMIOLOGY USING AGE OF INFECTION

John M. Henry[1], Austin R. Carter[1], Juliet N. Nsumba[2], Doreen M. Ssebuliba[2], David L. Smith[1]
[1]University of Washington, Seattle, WA, United States, [2]Makerere University, Kampala, Uganda

6536

DENGUE--AN EMERGING THREAT WORLDWIDE: A MATHEMATICAL MODEL EXPLORING GLOBAL RELATIVE RISK USING CLIMATIC, GEOLOCALIZED ECONOMIC, AND VECTOR DISTRIBUTION DATA

Amber F. Britt, Sina Mokhtar, Rebecca Fischer, Patrick Tarwater, Angela Clendenin, Martial Ndeffo-Mbah
Texas A&M, College Station, TX, United States

6537

THE SINGLE PATCH *PLASMODIUM FALCIPARUM* (SPPF) APPLICATION - A TOOL FOR MALARIA MODELLING IN LMIC

Sheetal P. Silal
Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa

6538

HEALTH: RADAR - A PROJECT FOR BETTER CLIMATE SENSITIVE INFECTIOUS DISEASE MODELS IN THE GLOBAL SOUTH

Jared M. Norman[1], Christopher Lennard[2], Sadiq Wanjala[3], Rajendra Maharaj[4], Sheetal P. Silal[1]
[1]Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa, [2]Climate Systems Analysis Group, University of Cape Town, Cape Town, South Africa, [3]Clinton Health Access Initiative, South Africa Office, Cape Town, South Africa, [4]South African Medical Research Council, Durban, South Africa

6539

A PREDICTIVE MODEL FOR NON-INVASIVE ANEMIA DIAGNOSIS

Jia Ying Jennifer Teo[1], Sophie Wu[2], Kartik Pejavara[3], Dominic Garrity[4], Adam Wax[2], Nirmish Shah[5]
[1]Duke University School of Medicine, Durham, NC, United States, [2]Department of Biomedical Engineering, Duke University, Durham, NC, United States, [3]Department of Computer Science, Duke University, Durham, NC, United States, [4]Global Alliance for Medical Innovation, Boston, MA, United States, [5]Department of Medicine, Duke University Medical Center, Durham, NC, United States

6540

IMPACT OF GOVERNMENT-REGULATED LOCKDOWNS DURING THE COVID-19 PANDEMIC ON ACCESS TO MENTAL HEALTH SERVICES THROUGH A TERTIARY PSYCHIATRIC CARE FACILITY AND THE NATIONAL MENTAL HEALTH CALL HELPLINE IN SRI LANKA

Madhubhashinee Dayabandara[1], **Chaminda Prasad Gigummaduwa Liyanage**[2], Pushpa Ranasinghe[3], Dhammika Wijesinghe[3], Charith Pathirana[3], Suhashini Ratnatunga[1], Shenal Madhushan[1], Yasasvi Dewasirinarayana[1], Kasuni Hasintha[1], Dharani Rajahewa[1], Shakthi Wijesekara[1], Ayodya Amarasinghe[1], Joacim Rocklöv[4], Yesim Tozan[2]
[1]Department of Psychiatry, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, [2]School of Global Public Health, New York University, New York, NY, United States, [3]National Institute of Mental Health, Angoda, Sri Lanka, [4]Heidelberg Institute of Global Health & the Interdisciplinary Center for Scientific Computing, University of Heidelberg, Heidelberg, Germany

6541

CREATING A DATA LIBRARY USING PUBLICLY AVAILABLE RESEARCH DATA ON NEGLECTED AND EMERGING INFECTIOUS DISEASES

Michael Anthony Vizcaino
CUNY SPH, Manhattan, NY, United States

6542

FEASIBILITY AND ACCEPTABILITY OF MOBILE TECHNOLOGY TO IMPROVE ONE HEALTH OUTBREAK REPORTING IN BWINDI, UGANDA

Julia Lippert[1], Nahabwe Haven[2], Scott Kellermann[2], Latha Rajan[1], Tierra Smiley Evans[3]
[1]Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]Bwindi Community Hospital, Buhoma, Uganda, [3]One Health Institute, UC Davis, Davis, CA, United States

6543

TRANSFERRING HEALTHCARE DIAGNOSTIC PRODUCT TECHNOLOGY TO THE POINT-OF-CARE IN LOW- AND MIDDLE-INCOME COUNTRIES

Sally M. McFall[1], Robert L. Murphy[3], **Chad J. Achenbach**[3], Kara M. Palamountain[2], Mamoudou Maiga[3], Matthew R. Glucksberg[2], Lesley Scott[4], Grant Theron[5], Thomas Franz[6], Eligius Lyamuya[7], Akinniyi Osuntoki[8], Akinwale Coker[9], Oche Agbaji[10], Seydi Moussa[11], Almoustapha Maiga[12]
[4]Biomedical Engineering, [1]Northwestern University, Evanston, IL, United States, [2]Northwestern University, Chicago, IL, United States, [3]University of the Witwatersrand, Johannesburg, South Africa, [4]Stellenbosch University, Cape Town, South Africa, [5]University of Cape Town, Cape Town, South Africa, [6]Muhimbili University, Dar es Salaam, United Republic of Tanzania, [7]University of Lagos, Lagos, Nigeria, [8]University of Ibadan, Ibadan, Nigeria, [9]University of Jos, Jos, Nigeria, [10]Université Cheikh Anta Diop, Dakar, Senegal, [11]University Of Science Of Technical And Technology De Bamako, Bamako, Mali

Global Health - Other

6544

CLOSE ENCOUNTERS OF THE ENVENOMATING KIND: MISSIONARIES, INSECTS, AND SNAKES DURING THE SCRAMBLE FOR AFRICA, 1885 - 1914

David P. Adams[1], Michael Kent[2]
[1]National University of Ireland-Galway, Galway, Ireland, [2]Point University, Savannah, GA, United States

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IMPACT OF AN ANCILLARY CARE POLICY DURING AN EBOLA VACCINE TRIAL IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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IMPROVING MALARIA COMMODITY ACCOUNTABILITY: - THE CASE OF MALAWI

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Global Health - Planetary Health including Climate Change

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THE PLANETARY CHILD HEALTH AND ENTERICS OBSERVATORY (PLAN-EO): AN INTERDISCIPLINARY RESEARCH INITIATIVE AND WEB-BASED DASHBOARD FOR MAPPING ENTERIC INFECTIOUS DISEASES AND THEIR RISK FACTORS AND INTERVENTIONS IN LOW- AND MIDDLE-INCOME COUNTRIES

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ADAPTING TO CLIMATE CHANGE IN SUB-SAHARAN AFRICA, ONE MALARIA INTERVENTION AT A TIME

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MALARIA MANAGEMENT IN AN ERA OF CLIMATE CHANGE

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GLOBAL ARBOVIRUS INITIATIVE: TACKLING MOSQUITO BORNE VIRUSES WITH EPIDEMIC AND PANDEMIC POTENTIAL

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DESIGN AND STANDARDIZATION OF MOLECULAR SYSTEMS BASED ON CRISPR-CAS TECHNOLOGY FOR THE IDENTIFICATION OF GENES ASSOCIATED WITH ANTIBIOTIC RESISTANCE

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USE OF STOCHASTIC BRANCHING PROCESSES TO ESTIMATE THE EMERGENCE OF MPOX IN NORTH CAROLINA

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A FRAMEWORK FOR PATHOGEN SELECTION USING TAQMAN ARRAY CARDS FOR SURVEILLANCE OF ACUTE FEBRILE ILLNESS IN NIGERIA

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ESTABLISHING THE SPATIAL DISTRIBUTION OF CIRCULATING ARBOVIRUSES IN URBAN AND RURAL LIBERIA

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EVALUATION OF ENVIRONMENTAL POLIO SURVEILLANCE SYSTEM IN GREATER ACCRA REGION, GHANA, 2021

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ASSESSING REALIZED AND POTENTIAL NICHE OF PATHOGENS OF PUBLIC HEALTH IMPORTANCE TO DESIGN SURVEILLANCE TOOL FOR ACUTE FEBRILE ILLNESS IN NIGERIA

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COMMUNITY-BASED SURVEILLANCE (CBS) FOR INFECTIOUS DISEASES AMONG DISPLACED POPULATIONS IN IRAQ: EXPANDING BEYOND THE COVID-19 RESPONSE

Caitlin M. Wolfe, Lara Abou Ammar, Mohammed N. Slebei, Nashwan Saoor, Karwan Khuder, Farrah Ali, Tahsin Aziz, Catharina Chipman, Loubna Al Batlouni, Nellie Ghusayni
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SCALABLE DISTRIBUTED MANUFACTURING OF POINT-OF-CARE MOLECULAR DIAGNOSTICS IN THE GLOBAL SOUTH

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SOCIODEMOGRAPHIC, CLINICAL & PROGRESSIVE PROFILE OF CHILDREN FROM 06 TO 59 MONTHS HOSPITALIZED FOR SEVERE ACUTE MALNUTRITION AT THE THE REGIONAL HOSPITAL OF BOUNDIALI.FROM JANUARY TO SEPTEMBER 2022

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DRSHPCMU BAGOUE, Boundiali, Côte D'Ivoire

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PREVALENCE AND FACTORS ASSOCIATED WITH MATERNAL AND NEONATAL SEPSIS IN SUB-SAHARAN AFRICA, A SYSTEMATIC REVIEW AND META-ANALYSIS

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IMPACT OF COVID-19 INFECTION ON PREGNANCY AND NEONATAL OUTCOMES EVIDENCE FROM A SUB-COHORT OF PREGNANT WOMEN FROM THE AMANHI-COVID-19 STUDY

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DEVELOPING LABORATORY INFRASTRUCTURE AND TECHNICAL CAPACITY TO ADDRESS INFECTIOUS DISEASES IN EQUATORIAL GUINEA

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GLOBAL HEALTH CHALLENGES OF INFLUENZA SENTINEL SURVEILLANCE COLLABORATION NETWORK

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COMPARISON OF PLAQUE REDUCTION NEUTRALIZATION TEST (PRNT) AND MULTIPLEX ARBOVIRUS IGG DETECTION TEST FOR DETECTION AND DIFFERENTIATION OF IGG RESPONSE TO ZIKV AND DENV

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US SURVEILLANCE OF NEGLECTED TROPICAL DISEASES - A MISSED OPPORTUNITY [CC1]OR NEGLECTED TROPICAL DISEASES

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SCALE UP FOR IMPACT IMPROVING COVID 19 ANTIGEN RAPID DIAGNOSTIC TESTING IN NIGERIA

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FILLING THE INFORMATION GAP: FIND MPOX TEST DIRECTORY AND PERFORMANCE EVALUATIONS

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PRELIMINARY INVESTIGATIONS OF THE MICROBIAL INTERACTIONS IN THE GUT OF POTENTIAL VECTORS OF LEISHMANIA CHANCEI IN GHANA

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SAND FLY SURVEILLANCE IN LEISHMANIASIS ENDEMIC AREAS IN CENTRAL HONDURAS

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TOWARDS A HOST-TARGETED INSECTICIDE STRATEGY: TRYPANOSOMA CRUZI INFECTION AND HOST FEEDING PATTERNS OF TRIATOMA DIMIDIATA IN A REGION WITH PERSISTENT CHAGAS DISEASE

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ASSESSING KNOWLEDGE ABOUT TICKS AND TICK BORNE DISEASES AMONG INDIANA HEALTHCARE PROVIDERS AND EXTENSION PROFESSIONALS

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TICK AND INSECT CELL LINES FROM THE TICK CELL BIOBANK FACILITATE ISOLATION OF WOLBACHIA AND OTHER OBLIGATE INTRACELLULAR BACTERIA ORIGINATING FROM MULTIPLE VECTOR SPECIES

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(ACMCIP Abstract)

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IMPROVING DISTRIBUTION MODELS OF SPARSELY DOCUMENTED DISEASE VECTORS BY INCORPORATING INFORMATION ON RELATED SPECIES VIA JOINT MODELING

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ANALYSIS OF BLACK FLY ENTOMOLOGICAL SURVEILLANCE FOR ONCHOCERCIASIS ELIMINATION IN SEVEN NIGERIAN STATES

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EFFICACY OF A PERSONAL INSECT REPELLENT KIT PERIMETER CONFIGURATION AGAINSTIXODES SCAPULARISFEMALE TICKS IN AN ENCLOSED PEET GRADY-STYLE CHAMBER

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ADAPTING VECTOR SURVEILLANCE SURVEYS USING BAYESIAN EXPERIMENTAL DESIGN: AN APPLICATION TO AN ONGOING TICK MONITORING PROGRAM IN THE SOUTHEASTERN UNITED STATES

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INDOOR RESIDUAL SPRAYING HAS REDUCED SANDFLY ABUNDANCE AND INCIDENCE OF VISCERAL LEISHMANIASIS IN THE INDIAN SUB-CONTINENT

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DISTRIBUTION OF FRESHWATER SNAILS VECTORS FOR THE TRANSMISSION OF URBAN SCHISTOSOMIASIS IN THE ABUJA, FEDERAL CAPITAL TERRITORY, ABUJA, NIGERIA

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Mosquitoes - Biology, Physiology and Immunity

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CLIP RNAI SCREEN: UNVEILING THE PROTEASE NETWORK THAT REGULATES HUMORAL IMMUNITY IN *ANOPHELES GAMBIAE*

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IMPACT OF ARBOVIRUS INFECTION ON THE HOST-SEEKING BEHAVIOUR OF *AEDES AEGYPTI* MOSQUITOES

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METATRANSCRIPTOMIC APPROACH TO CHARACTERIZE MICROBIOTA AND BLOODMEALS IN *ANOPHELES* DARLINGI FROM COLOMBIA

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CAN THE *ANOPHELES* FUNESTUS FEEDING RATE IMPROVE ON AN ARTIFICIAL MEMBRANE FEEDING SYSTEM?

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REVEALING FUNCTIONS OF HEMOCYTES AFFECTING *PLASMODIUM FALCIPARUM* INFECTION IN *ANOPHELES GAMBIAE*

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(ACMCIP Abstract)

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EXPLORING NON-CODING RNAS FOR PATHOGEN BLOCKING IN MOSQUITOES

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(ACMCIP Abstract)

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NEW ASPECTS OF SPOROZOITE AND *ANOPHELES* SALIVARY GLAND INTERACTIONS

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ANALYSIS OF THE GENITALIA ROTATION IN THE MALE MOSQUITOES CULEX PIPIENS

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IN SILICO DATA MINING REVEALS IMPRESSIVE DIVERSITY OF ANTIMICROBIAL PEPTIDE-CODING GENES IN MALARIA VECTOR *ANOPHELES GAMBIAE*

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IDENTIFICATION OF METABOLOMIC PROFILE OF MOSQUITOES *ANOPHELES* SPECIES DIET BY ULTRA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY MASS SPECTROMETRY TECHNIQUE IN LIMA PERU

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MALARIA VECTOR BIONOMICS AND PHENOTYPIC RESISTANCE STATUS TO INSECTICIDES USED IN VECTOR CONTROL IN NDOLA DISTRICT, ZAMBIA

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FIRST DETECTION OF *ANOPHELES* STEPHENSI IN ACCRA, GHANA, USING MOLECULAR SURVEILLANCE

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ANOPHELES STEPHENSI - SIGNIFICANCE OF ITS UBIQUITOUS PRESENCE IN URBAN AND RURAL SETTINGS; IMPACT ON VECTOR CONTROL AND MALARIA ELIMINATION IN INDIA

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FOREST COVER AND THE DYNAMICS OF PEAK BITING TIME OF INFECTED NYSSORHYNCHUS DARLINGI IN RURAL COMMUNITIES OF THE BRAZILIAN AMAZON

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ASSOCIATION BETWEEN LANDCOVER CHARACTERISTICS AND AQUATIC HABITATS OF THE MALARIA VECTORS, *ANOPHELES* FUNESTUS DURING THE DRY SEASON

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THE IMPACT OF POLARIZED LIGHT & PHYSICAL-CHEMICAL WATER BODIES PARAMETERS ON OVIPOSITION SITE SELECTION IN ANOPHELINE MOSQUITOES

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EXPOSURE TO MALARIA VECTOR BITES IN RELATION TO HUMAN SLEEPING PATTERNS IN RURAL MALAWI

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NON-RESIDENTIAL SPACES AROUND HOUSES ARE IMPORTANT SOURCES OF AE. AEGYPTI MOSQUITO VECTORS IN WESTERN AND COASTAL KENYA

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ENTOMOLOGICAL SURVEILLANCE AND COMMUNITY KNOWLEDGE ON MOSQUITOES AND DENGUE RISK IN THE GALAPAGOS ISLANDS, ECUADOR

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DEFINING THE CONTRIBUTION OF COMPLEMENTAL MALARIA VECTOR *ANOPHELES* COUSTANI S.L. TO *PLASMODIUM FALCIPARUM* SPOROZOITE INFECTION IN A HIGHLY ENDEMIC REGION IN UGANDA.

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CHARACTERIZATION OF MOSQUITO BITE EXPOSURE IN HUMAN USING NOVEL BITE DIARY APP AS A NEW PARADIGM LINKING SOCIO-ENVIRONMENT AND MOSQUITO-BORNE DISEASE TRANSMISSION

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DEVELOPMENT OF SEMI-AUTOMATED SYSTEMS TO GENERATE MOSQUITOES FOR VECTOR-BORNE DISEASE RESEARCH

Cecilia Kalthoff, Zephyr Pitre, Tess Seltzer, Maria Benitez-Cortez, Conrad Yee, Elizabeth K.K. Glennon, Alexis Kaushansky
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VECTOR PROFILES AND RISK FACTORS AMONG EARLY EVENING VERSUS OVERNIGHT MOSQUITO COLLECTIONS IN THE HIGH MALARIA TRANSMISSION SETTING OF NCHELENGE DISTRICT, ZAMBIA

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ANTIBODY RESPONSE TO AEDES SPP. MOSQUITO SALIVARY PROTEINS AS A MARKER FOR EXPOSURE: A SYSTEMATIC REVIEW AND POOLED ANALYSIS

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INVESTIGATION OF MEDICALLY IMPORTANT ARBOVIRUSES AND INSECT-SPECIFIC VIRUSES IN THE SYLVATIC AND URBAN VECTORS OF YELLOW FEVER VIRUS COLLECTED IN THE BRAZILIAN AMAZON

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HUMAN BEHAVIORAL DETERMINANTS OF RISK OF EXPOSURE TO *ANOPHELES* AMONG SEASONAL MIGRANT WORKERS AND RESIDENT POPULATIONS IN LOWLANDS AND THE GENERAL POPULATION IN THE HIGHLANDS, NORTHWEST ETHIOPIA

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CLOSE-KIN MARK-RECAPTURE METHODS TO ESTIMATE DEMOGRAPHIC AND DISPERSAL PARAMETERS OF MOSQUITOES

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ADVANCEMENTS OF ARTIFICIAL INTELLIGENCE (AI) IMAGE RECOGNITION FOR USE IN VECTOR SURVEILLANCE OPERATIONS

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Mosquitoes - Epidemiology and Vector Control

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EVALUATION OF MYRISTICA FRAGRANS ESSENTIAL OIL AS A POTENTIAL BIOPESTICIDE FOR THE CONTROL OF AEDES MOSQUITOES IN JAMAICA

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INTERIM EFFICACY REPORT OF ECO BIOTRAPS IN DHARAVI, MUMBAI, INDIA

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EVALUATION OF THE SYSTEMIC INSECTICIDAL EFFECTS OF IVERMECTIN TREATED CATTLE ON *AEDES AEGYPTI*, VECTOR OF ARBOVIRUSES

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UNLEASHING NATURE'S SECRET WEAPON: TACKLING MOSQUITO MENACE WITH STREPTOMYCES SP. KSF103

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METHODS USED FOR MALARIA AND MOSQUITO CONTROL AT THE HOUSEHOLD LEVEL IN TANZANIA. THE SCHOOL MALARIA AND NUTRITION SURVEY

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IMPACT OF CLIMATE VARIABILITY ON VECTOR-BORNE DISEASES (MALARIA)

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SPATIAL AND TEMPORAL DISTRIBUTION OF *ANOPHELES* SPECIES ACROSS THREE DIFFERENT ECOLOGICAL ZONES IN GHANA

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RELEVANT DENGUE TRANSMISSION RISK IN NON-HOUSEHOLD ENVIRONMENTS IN KENYAN CITIES CAN LEAD US TO RETHINK THE HOUSEHOLD AS THE FOCUS OF VECTOR CONTROL ACTIVITIES

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MEASURING THE LONG-TERM PUBLIC HEALTH IMPACT AFTER CITY-WIDE WMEL DEPLOYMENTS IN YOGYAKARTA

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MODELING THE EFFECTIVENESS OF ATTRACTIVE TARGETED SUGAR BAITS IN REDUCING CLINICAL MALARIA

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INSECTICIDE TREATED RESTING STATIONS REDUCE PARITY RATE OF THE ENZOOTIC MOSQUITO VECTOR OF EEE VIRUS, CULISETA MELANURA

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INTEGRATED VECTOR MANAGEMENT IMPLEMENTED TO REDUCE DENV-1 POSITIVE CASES IN HUMANS AND MOSQUITOES IN MAYAGÜEZ, PUERTO RICO, 2022

Nexilianne Borrero, Raiza Alvarado, Luis Doel Santiago, Joanelis Medina, Cristhian R. Sáchez-Rolón, Verónica Rodríguez-Quiñonez, Jania P. García, Luis Marrero, Tatiana Ortiz-Ortiz, Julieanne Miranda-Bermúdez, Grayson Brown

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THE SPREAD OF CHIKUNGUNYA VECTORS: A POTENTIAL THREAT TO GLOBAL HEALTH

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HOST PREFERENCES OF *ANOPHELES GAMBIAE* S.L AND THEIR IMPLICATIONS FOR MALARIA TRANSMISSION IN FOUR (4) INDOOR RESIDUAL SPRAYING INTERVENTION DISTRICTS IN GHANA

Kwame Desewu, Nicholas Ato Egyir, Gilbert Dossah, Grace Oppong, Francis Ofori Amankwah, Joseph Mwinikubu Vulgate, Agyei Kumi, Matilda Kaabo, Ignatius Williams, Samuel Asiedu

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OPTIMAL CONTROL OF DENGUE WITH EXISTING AND FORTHCOMING INTERVENTIONS

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CHANGING ASSUMPTIONS ABOUT MOSQUITO HABITAT AVAILABILITY DRIVE VARIATION IN SEASONAL DENGUE DYNAMICS WHEN BEHAVIORAL CONTROL IS PRESENT

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INFLUENCE OF THERMAL AND INSECTICIDE GRADIENTS ON IMMATURE *AEDES AEGYPTI* PERFORMANCE

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FROM THE LAB TO THE FIELD: LONG-DISTANCE TRANSPORT OF STERILE MALE MOSQUITOES

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BACTERIAL COMMUNITIES ASSOCIATED WITH *ANOPHELES GAMBIAE* LARVAL HABITATS IN SOUTHERN GHANA.

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A VOLATILE PYRETHROID SPATIAL REPELLENT (VPSR) USING TRANSFLUTHRIN AS AN INTERVENTION FOR REDUCING OUTDOOR MALARIA TRANSMISSION

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EVIDENCE-BASED DESIGN OF ENHANCED VECTOR SURVEILLANCE FOR LARVAL SOURCE MANAGEMENT ON BIOKO ISLAND, EQUATORIAL GUINEA

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COMBINING A SCHOOL-BASED AND COMMUNITY-BASED EDUCATIONAL INTERVENTION IN URBAN KENYA FOR LARVAL SOURCE REDUCTION

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ADVANCEMENTS TOWARD COMMERCIAL-SCALE PRODUCTION OF YEAST RNAI INSECTICIDES FOR MOSQUITO CONTROL

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SHOULD WE BE SPRAYING 80% OF THE HOUSES? AN OPERATIONAL, CLUSTER RANDOMIZED TRIAL ON BIOKO ISLAND TESTING THE NON-INFERIORITY OF A LOWER COVERAGE

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CHARACTERIZATION OFANOPHELINES WARMS DURING THE DRY SEASON ALONG THE NIGER RIVER, MALI

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FORECASTING WEST NILE VIRUS WITH GRAPH NEURAL NETWORKS: HARNESSING SPATIAL DEPENDENCE INIRREGULARLY SAMPLED GEOSPATIAL DATA

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TARGETING OF VECTOR CONTROL INTERVENTIONS TO MOBILE, MIGRANT, ETHNIC, AND VULNERABLE POPULATIONS IN MALARIA ELIMINATION SETTINGS: A COMPARISON OF APPROACHES IN THE GREATER MEKONG SUBREGION AND MESOAMERICA REGION

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EFFECTIVENESS OF DUAL-ACTIVE INGREDIENT LONG-LASTING INSECTICIDAL NETS (LLINS) ON PRIMARY MALARIA VECTORS: A SECONDARY ANALYSIS OF A THREE-YEAR CLUSTER-RANDOMIZED CONTROLLED TRIAL IN RURAL TANZANIA

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Ectoparasite-Borne Disease - Other

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HOT SPOTS AND BLIND SPOTS - ESTABLISHING A SURVEILLANCE BASELINE FOR TICKS AND TICK-BORNE PATHOGENS OF WEST AFRICA FROM 1901 TO 2022

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SPOTLIGHT REPORT: TICK SURVEILLANCE IN NIGERIA

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SPOTLIGHT REPORT: TICKS AND TICK-BORNE DISEASE THREATS IN TUNISIA

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SUCCESSFUL BARTONELLA HENSELAE INFECTION BY AN INCIDENTAL VECTOR IN IMMUNOCOMPROMISED AND IMMUNOCOMPETENT MOUSE MODELS

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SPOTLIGHT REPORT: HISTORICAL RECORD OF TICK DIVERSITY IN ALGERIA

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SPOTLIGHT REPORT: TICKS AND TICK-BORNE DISEASES OF NIGER

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ECTOPARASITES OF DOGS IN RURAL GUATEMALA COMMUNITIES AND INFECTION WITH ZOONOTIC AGENTS

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ENHANCING EHRLICHIOSIS RISK DETERMINATION THROUGH THE SOUTHEASTERN TICK-BORNE EMERGENT PATHOGEN SURVEILLANCE (STEPS) PROGRAM IN TENNESSEE

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EFFECTIVENESS OF FLURALANER TREATMENT REGIMENS FOR THE CONTROL OF CANINE CHAGAS DISEASE. A MATHEMATICAL MODELING STUDY

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FLEA-BORNE PATHOGENS IN FLEAS FROM NATURALLY INFESTED DOGS AND CATS IN PRIVATE HOMES IN FLORIDA, USA

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MOLECULAR DETECTION OF YERSINIA PESTIS AND BARTONELLA SPP. IN RODENT FLEAS FROM PIURA, PERU

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Viruses - Emerging Viral Diseases

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CHARACTERIZATION OF EPSTEIN BARR VIRUS INFECTION IN TONSILS OF CHILDREN RESIDING IN MALARIA HOLOENDEMIC REGION OF WESTERN KENYA

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(ACMCIP Abstract)

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RECONCILIATION OF ADVERSE PREGNANCY OUTCOME RISKS BETWEEN FOUR ZIKA VIRUS COHORTS IN LATIN AMERICA

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EVALUATING BARRIERS AND FACILITATING FACTORS AROUND COVID-19 VACCINATION IN WESTERN UGANDA: A SURVEY OF COMMUNITY MEMBERS

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DEVELOPMENT OF A SURFACE PROTEIN-BASED MULTIPLEX IMMUNOASSAY FOR MPOX SEROLOGICAL TESTING AND SURVEILLANCE

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A SCOPING LITERATURE REVIEW OF GLOBAL DENGUE AGE-STRATIFIED SEROPREVALENCE: ESTIMATING DENGUE FORCE OF INFECTION IN ENDEMIC COUNTRIES

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DETERMINATION OF REQUIREMENTS TO ENSURE EFFECTIVE INACTIVATION OF POWASSAN VIRUS AS A SURROGATE BIOLOGICAL SELECT AGENTS AND TOXINS (BSAT)

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ASSOCIATION OF FOREST RELATED ACTIVITIES WITH MADARIAGA VIRUS INFECTION IN THE COMMUNITY OF ARUZA IN PANAMA

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DESCRIBING THE IMPLICATIONS OF TEMPERATURE ON THE TRANSMISSION POTENTIAL OF RIFT VALLEY FEVER VIRUS IN CULEX TARSALIS AND *AEDES AEGYPTI* MOSQUITOES

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PERSISTENCE OF VIRAL RNA IN HOSPITALIZED PATIENTS WITH LASSA FEVER IN LIBERIA

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SIGNIFICANT GAPS IN KNOWLEDGE AND ATTITUDES TOWARDS VACCINATION IN A HIGHLY AFFECTED POPULATION BY THE MONKEYPOX EPIDEMIC: CASE OF KUMBA HEALTH DISTRICT, CAMEROON, SEPTEMBER 2022

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EVALUATION OF THE LEVEL OF KNOWLEDGE, ATTITUDES, PRACTICES OF PREVENTIVE MEASURES AGAINST COVID 19 DISEASE AMONG MEDICAL STUDENTS AT THE UNIVERSITY OF HEALTH SCIENCES IN GABON

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SARS COV 2 SEROPREVALENCE AMONG INTERNATIONAL TRAVELERS FROM SELECTED DISTRICTS OF THE COPPERBELT PROVINCE OF ZAMBIA

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(ACMCIP Abstract)

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DEVELOPMENT AND VALIDATION OF A REAL TIME QPCR FOR YELLOW FEVER VIRUS DETECTION

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NAMRU-6, Lima, Peru

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ENDEMIC VENEZUELAN EQUINE ENCEPHALITIS VIRUS ACTIVITY IN RURAL AND URBAN SETTINGS OF PANAMA

Carlos A. Lezcano, Josefrancisco Jose Galue, Xacdiel Rodriguéz, Yelissa Nicole Juarez, Jean Paul Carrera
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TWO-DOSE VACCINE EFFECTIVENESS FOLLOWING THE FIRST REACTIVE MASS VACCINATION CAMPAIGN AGAINST HEPATITIS E IN BENTIU, SOUTH SUDAN

Robin Nesbitt[1], John Rumunu[2], Vincent Kinya Asilaza[3], Priscillah Gitahi[3], Patrick Nkemenang[3], Melat Haile[4], Jetske Duncker[3], Zelie Antier[3], Etienne Gignoux[1], Manuel Albela[4], Primitive Gakima[4], Joseph F. Wamala[5], Kediende Chong[2], Catia M. Alvarez[6], Isabella Eckerle[6], Monica Rull[4], Iza Ciglenecki[4], **Andrew S. Azman**[7]
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DIAGNOSTIC ACCURACY OF THE ZIKV DETECT™ 2.0 IGM CAPTURE ELISA AND THE ZIKA IGM RAPID TEST PROTOTYPE FROM INBIOS INTERNATIONAL INC

Moyra Machado Portilho[1], Julia Gois Costa[1], Carolina Sacramento Gomes[1], Patricia Moreira[1], Leile Camila Jacob-Nascimento[1], Rosangela Oliveira Anjos[1], Mariana Kikuti[1], Laura Tauro[1], Mitermayer Galvão Reis[2], Guilherme Sousa Ribeiro[2]
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EPIDEMIC TRANSMISSION OF CHIKUNGUNYA VIRUS DURING COVID-19 PANDEMIC LOCKDOWN MEASURES: A COHORT STUDY IN AN URBAN INFORMAL SETTLEMENT IN BRAZIL

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ANTIBODY DYNAMICS TO MPOX INFECTION AND MVA-BN VACCINATION

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Viruses - Epidemiology

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SARS-COV-2 SEROPREVALENCE AND PREECLAMPSIA MARKERS AMONG UNVACCINATED MOZAMBICAN PREGNANT WOMEN WITH FETAL LOSS

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MORTALITY FROM CHRONIC HEPATITIS C IN BRAZIL ANALYSIS OF THE MULTIPLE CAUSES OF DEATH IN THE PERIOD 2000 TO 2019

Larissa Festa, **Gerusa Maria Figueiredo**
University of São Paulo, São Paulo, Brazil

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KNOWLEDGE, ATTITUDE AND PRACTICE OF THE POPULATION REGARDING THE COVID 19 PANDEMIC IN THE LARGEST MARKET OF THE DISTRICT OF BAMAKO IN 2021

Moulaye Berthe, Mountaga Diallo, Yacouba Toloba, Mahamadou Diakite
International Centre for Excellence in Research (ICER-Mali), Bamako, Mali

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Diana Asandem[1], Philip S. Segbefia[2], Luttrodt Bentum-Enin[2], Rawdat Baba-Adam[2], Bright Asare[2], Frank Osei[2], Georgina Agyekum[2], Linda E. Amoah[2], Kwadwo A. Kusi[2], Joseph H.K Bonney[3]
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WHO ZIKV INDIVIDUAL PARTICIPANT DATA META-ANALYSIS: PRELIMINARY FINDINGS FROM A CONSORTIUM-WIDE INITIATIVE

Ronaldo Silva, ZIKV IPDMA Consortium
World Health Organization, Geneva, Switzerland

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SEROEPIDEMIOLOGY_OF DENGUE AND CHIKUNGUNYA INFECTIONS IN GHANA_A SECONDARY DATA ANALYSIS, 2021.

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DENGUE VIRUS SEROEPIDEMIOLOGY IN KINSHASA, DEMOCRATIC REPUBLIC OF CONGO

Rachel Sendor[1], Daniel O. Espinoza[2], Kristin Banek[1], Melchior M. Kashamuka[3], Joseph A. Bala[3], Marthe Nkalani[3], Georges E. Mahilu[3], Georges Kihuma[3], Joseph Atibu[3], Sam J. White[1], Kyaw L. Thwai[1], Theirry L. Bobanga[3], Tommy Nseka[3], Jeffrey A. Bailey[4], Michael Emch[1], Rhoel Dinglasan[5], Jonathan J. Juliano[1], Matthew H. Collins[2], Antoinette K. Tshefu[3], Jonathan B. Parr[1]

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Alexis Domeracki[1], Armando Matute[2], Hernán Vargas[3], Elana Horwitz[1], Edwing Cuadra[4], Omar Zepeda[3], Tianchen Sheng[5], Demetrios L. Samaras[4], Lakshmanane Premkumar[6], Aravinda de Silva[6], Filemón Bucardo[3], Megan Reller[7]

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PERSISTENT, CONSISTENT, AND NEGLECTED: INVESTIGATING THE GEOGRAPHIC CLUSTERING AND PREDICTORS OF LA CROSSE VIRUS DISEASE IN APPALACHIA

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SARSCOV2 INFECTION IN BROWN-HEADED SPIDER MONKEYS (ATELES FUSCICEPS) AT A WILDLIFE RESCUE CENTER ON THE COAST OF ECUADOR SOUTH AMERICA

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THE EFFECT OF PRIOR ZIKA VIRUS INFECTION ON MARKERS OF MALE FERTILITY

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SUPPORT OF SENTINEL SYNDROMIC SURVEILLANCE IN IMPROVING THE DETECTION OF RIFT VALLEY FEVER AND CRIMEAN CONGO HEMORRHAGIC FEVER VIRUSES IN HUMANS IN SENEGAL

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WEST NILE VIRUS SEROPREVALENCE IN HUMANS LIVING IN THE TAMPA BAY REGION OF FLORIDA

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IDENTIFYING THE VERTEBRATE HOSTS WITH POSSIBLE ASSOCIATION TO JAPANESE ENCEPHALITIS VIRUS DISPERSAL IN NATURE BY BLOOD MEAL SOURCE IDENTIFICATION AND RNA VIROME DETERMINATION IN JAPANESE ENCEPHALITIS VIRUS VECTORS

Astri N. Faizah, Daisuke Kobayashi, Ryo Matsumura, Mamoru Watanabe, Yukiko Higa, Kyoko Sawabe, Haruhiko Isawa
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DENGUE SEROTYPE DYNAMICS AT THE KENYAN COAST

Josphat N. Nyataya, Kimita Gathii, Erick Muthanje, John Njenga
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DENGUE VIRUS SURVEILLANCE IN *AEDES AEGYPTI*

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VIRSCAN SEROLOGICAL PROFILING OF THE PENAN TRIBE, AN INDIGENOUS GROUP IN SARAWAK, MALAYSIA

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SEROPREVALENCE OF ARBOVIRUSES IN SLOTHS FROM A RURAL ZONE WITH FAST URBANIZATION CLOSE TO PANAMA CITY

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WHEN CASE REPORTING BECOMES UNTENABLE: CAN SEWER NETWORKS TELL US WHERE COVID-19 TRANSMISSION OCCURS?

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Viruses - Immunology

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T-CELL RESPONSES AS CORRELATES OF DIFFERENT DISEASE OUTCOMES OF DENGUE VIRUS INFECTION

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METABOLIC SYNDROME CONTRIBUTES TO ENHANCED DISEASE SEVERITY FOLLOWING EMERGING VIRAL INFECTIONS

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ACUTE IMMUNOLOGICAL PROFILE AND PROGNOSTIC BIOMARKERS OF PERSISTENT JOINT PAIN IN THE CHIKUNGUNYA FEVER: A SYSTEMATIC REVIEW

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EBOV-SPECIFIC NEUTRALIZING ANTIBODY PERSISTS AT HIGH LEVELS IN EBOLAVIRUS DISEASE SURVIVORS TWO YEARS AFTER RESOLUTION OF DISEASE IN A SIERRA LEONEAN COHORT

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PREVALENCE OF DENGUE AND CHIKUNGUNYA ANTIBODIES AMONG CHILDREN IN GRENADA, WEST INDIES

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ANTIBODY INDUCED RESPONSE AGAINST SARS-COV-2 OMICRON SUBLINEAGES IN A COHORT VACCINATED WITH CORONAVAC FOLLOWED BY A TWO BOOSTER DOSES PROTOCOL WITH BNT162B2 AND AD26.COV2.S

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ENGINEERING THE SURFACE OF DENGUE VIRUS 2 ENVELOPE PROTEIN TO SELECTIVELY ELICIT DIMER-SPECIFIC ANTIBODIES

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CHARACTERIZING THE IMMUNE RESPONSE TO ZIKA VIRUS USING EPITOPE MAPPING, REPORTER VIRUS PARTICLES, AND ANTI-ZIKV ANTIBODIES

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COMPREHENSIVE MUTAGENESIS OF DENGUE VIRUS ENVELOPE PROTEINS TO MAP ANTIBODY EPITOPES AND IDENTIFY RESIDES ESSENTIAL FOR FUNCTION

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IMMUNOLOGICAL INSIGHTS FROM EPITOPE MAPPING ON THE CHIKUNGUNYA VIRUS ENVELOPE

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COMPARISON OF TRADITIONAL PLAQUE ASSAY TO IMMUNOFOCUS ASSAY FOR QUANTIFICATION OF CLINICAL (WILD-TYPE) YELLOW FEVER VIRUSES

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A PANEL OF WILD-TYPE YELLOW FEVER VIRUSES REVEAL NEW INSIGHTS INTO THE POTENCY AND BREADTH OF 17D-ELICITED NEUTRALIZING ANTIBODIES IN A VACCINATED COHORT

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CHARACTERIZATION OF MBC-DERIVED MABS FROM AN INDIVIDUAL WITH SEQUENTIAL DENGUE AND ZIKA VIRUS INFECTIONS

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TARGETS OF DENGUE CROSS-NEUTRALIZING POLYCLONAL SERA

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DETERMINANTS OF IMMUNIZATION IN POLIO SUPER HIGH-RISK UNION COUNCILS OF PAKISTAN

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Viruses - Transmission Biology

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IDENTIFYING SOURCES OF HEPATITIS E VIRUS TRANSMISSION DURING OUTBREAKS THROUGH MODEL-DRIVEN ESTIMATION

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ALTERNATIVE MODALITIES AMPLIFYING TRANSMISSION OF EASTERN EQUINE ENCEPHALITIS VIRUS IN AVIAN HOSTS, THE FACTS ARE IN THE FECES

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MUTATIONS OF THE FLAVIVIRUS CONSERVED RESIDUES IN THE ENVELOPE PROTEIN DOMAIN I-DOMAIN III LINKER ATTENUATE THE MOUSE NEUROINVASIVE PHENOTYPE OF WEST NILE VIRUS

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INFLUENCE OF BREEDING SITES MICROBIOTA AND NUTRIMENT CONTENT ON *AEDES AEGYPTI* MICROBIOTA AND VECTOR COMPETENCE FOR ARBOVIRUSES

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THE EFFECT OF ENVIRONMENTAL TEMPERATURE ON TRANSMISSION DYNAMICS AND VIRAL GENETICS AMONG CULEX TARSALIS MOSQUITOES INFECTED WITH RIFT VALLEY FEVER VIRUS (RVFV)

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VECTOR COMPETENCE OF *AEDES AEGYPTI* TO DENGUE SEROTYPES TWO AND THREE IN AYAWASO WEST DISTRICT IN GHANA

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CELLULAR MECHANISMS INVOLVED IN THE VIRAL INTERFERENCE OF INFECTION BETWEEN DENGUE AND YELLOW FEVER VIRUSES IN AEDES MOSQUITO CELLS

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AEDES AEGYPTI MOSQUITO BITES ENHANCE INFECTION OF MYELOID CELLS WITH DENGUE VIRUS IN HUMAN SKIN

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VECTOR COMPETENCE OF US BORDER AE. AEGYPTI MOSQUITOES FOR DENGUE VIRUS SEROTYPE 1 ISOLATED FROM A MEXICO BORDER COMMUNITY

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EXPLORING POSSIBILITIES FOR BUNYAMWERA VIRUS MAINTENANCE CYCLE TRANSMISSION

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PRIOR VACCINATION ALTERS THE DYNAMICS OF THE EVOLVING T CELL RESPONSE IN HUMANS UNDERGOING CONTROLLED CHALLENGE WITH DENGUE VIRUS 1

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CHARACTERIZING A NOVEL DENGUE VACCINE BY LEVERAGING CLINICAL TRIAL DATA WITH A MULTI-LEVEL MODEL

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DURABLE B AND T CELL IMMUNITY 10 YEARS AFTER DENGUE VACCINATION OF FLAVI-NAIVE PEOPLE

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THE IMMUNOGENICITY OF A TETRAVALENT LIVE DENGUE VACCINE (DENGVAXIA) ADMINISTERED TO CHILDREN IN THE PHILIPPINES WITH BASELINE IMMUNITY TO ONE DENGUE VIRUS SEROTYPE

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CHARACTERISING THE IMMUNOGENICITY AND EFFICACY OF SECOND-GENERATION DENGUE VACCINE

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Malaria - Antimalarial Resistance and Chemotherapy

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IN VIVO EFFICACITY OF SULFADOXINE PYRIMETHAMINE IN PREGNANT WOMEN INFECTED WITH *PLASMODIUM FALCIPARUM* IN MALI

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TRANSCRIPTOMIC APPROACH TOWARDS UNDERSTANDING THE MOLECULAR MECHANISMS OF IMIDAZOLOPIPERAZINE (IPZ) IN THE MALARIA PARASITE *PLASMODIUM FALCIPARUM*

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INVESTIGATION OF MARKERS OF ARTEMISININ RESISTANCE AT SELECTED INTERVALS DURING THE 72-HOUR PERIOD AFTER ARTEMISININ BASED COMBINATION THERAPY DOSING IN KISUMU WESTERN KENYA

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INSIGHTS INTO THE EMERGENCE OF THE 431V RESISTANCE MUTATION IN *PLASMODIUM FALCIPARUM*; LINKAGE WITH A NOVEL INTRON MUTATION

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MALARIA PREVALENCE, TRANSMISSION POTENTIAL AND EFFICACY OF ARTEMISININ COMBINATION THERAPY IN THE KENYAN CENTRAL HIGHLANDS - AN EMERGING ZONE PREVIOUSLY CHARACTERIZED AS MALARIA FREE

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THERE IS NO TIME TO WASTE - WE NEED TO UNDERSTAND THE PROPHYLACTIC ACTION OF SULFADOXINE-PYRIMETHAMINE AGAINST MALARIA CLINICAL CASES FOR PREVENTION

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PHENOTYPIC VALIDATION OF MOLECULAR MARKERS ASSOCIATED WITH SEASONAL MALARIA CHEMOPREVENTION AND ONGOING SELECTIVE SWEEPS IN SENEGAL

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(ACMCIP Abstract)

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DEVELOPMENT AND EVALUATION OF A NOVEL PROTOCOL TO ASSESS THE EFFICACY OF SEASONAL MALARIA CHEMOPREVENTION (SMC) USING SULFADOXINE, PYRIMETHAMINE AND AMODIAQUINE IN AN AREA OF HIGH ANTIMALARIAL DRUG RESISTANCE IN NAMPULA, MOZAMBIQUE.

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EVIDENCE OF CHLOROQUINE SUSCEPTIBLE *PLASMODIUM FALCIPARUM* MALARIA IN AN URBAN MEDIUM TRANSMISSION ZONE IN ZAMBIA

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INSIGHTS INTO THE MODE OF ACTION AND A NOVEL MUTANT PFCRT-MEDIATED MECHANISM OF RESISTANCE TO THE ANTIMALARIAL CLINICAL CANDIDATE ZY-19489

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(ACMCIP Abstract)

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MOLECULAR SURVEILLANCE OF *PLASMODIUM FALCIPARUM* DRUG RESISTANCE REVEALS PRESENCE OF I431V DHPS MUTATION IN PARASITES HARBORING QUINTUPLE AND QUADRUPLE DHPS MUTATIONS IN SENEGAL

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EVOLUTION OF GENOMIC MARKERS OF *PLASMODIUM FALCIPARUM* RESISTANCE TO ANTIFOLATES AND AMINOQUINOLINES IN UGANDA

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RISK FACTORS OF CHEMOPROPHYLAXIS FAILURE MALARIA AMONG BANGLADESHI UN PEACEKEEPERS IN AFRICA

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SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* ISOLATES FROM EASTERN UGANDA TO GANAPLACIDE AND PHOSPHATIDYLINOSITOL 4-KINASE INHIBITORS

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QPCR ANALYSIS OF RING STAGE SURVIVAL ASSAYS FOR SURVEILLANCE OF ARTEMISININ PARTIAL RESISTANCE IN *PLASMODIUM FALCIPARUM*

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DECIPHERING *P. FALCIPARUM* ARTEMISININ RESISTANCE IN BANGLADESH: A GENOTYPIC-PHENOTYPIC EVALUATION OF KELCH13-DEPENDENT AND INDEPENDENT DETERMINANTS

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TRENDS OF *PLASMODIUM FALCIPARUM* MOLECULAR MARKERS OF ASSOCIATED WITH RESISTANCE ARTEMISININS AND REDUCED SUSCEPTIBILITY TO LUMEFANTRINE IN MAINLAND TANZANIA FROM 2016 TO 2021

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DEVELOPMENT OF SELECTIVE *P. FALCIPARUM* PROLYL-TRNA SYNTHETASE INHIBITORS THAT ARE INSENSITIVE TO HALOFUGINONE RESISTANCE

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UNDERSTANDING THE DEVELOPMENT OF DRUG RESISTANCE IN LIVER STAGES OF *PLASMODIUM FALCIPARUM*

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LEVERAGING ON ROUTINE REVIEW MEETINGS IN ANTIMICROBIAL STEWARDSHIP

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Malaria - Diagnosis - Challenges and Innovations

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INVESTIGATING THE ACCURACY OF MALARIA DIAGNOSTIC TESTS: A BAYESIAN META-ANALYSIS COMPARING CONVENTIONAL AND ULTRASENSITIVE RAPID DIAGNOSTIC TOOLS

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PRECLINICAL PERFORMANCE AND USABILITY EVALUATION OF A NEW POINT-OF-CARE TEST FOR GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY

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PRACTICAL FACILITY-LEVEL APPROACHES TO REDUCE MALARIA TEST POSITIVITY RATES IN OYO STATE, NIGERIA

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THE ROLE OF PSYCHOSOCIAL FACTORS IN PROMPT AND APPROPRIATE CARE SEEKING FOR FEVER IN CHILDREN UNDER 5: FINDINGS FROM THE KENYA MALARIA BEHAVIOR SURVEY

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THE EXPERIENCE OF TESTING AND TREATMENT FOR MALARIA IN THE RETAIL SECTOR: COMPARING THE PROVIDER AND ATTENDANT REPORTED OUTCOMES

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COMPARING MALARIA RAPID DIAGNOSTIC TEST AND PCR FOR DETECTION OF *PLASMODIUM FALCIPARUM* INFECTIONS IN SCHOOL MALARIA PARASITAEMIA SURVEY IN TANZANIA

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COMPARISON OF TWO METHODS FOR DETECTION OF GAMETOCYTES IN BURKINA FASO YOUNG CHILDREN WHO RECEIVED THE MALARIA VACCINE CANDIDATE BK-SE36

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PERFORMANCE EVALUATION OF CONVENTIONAL RDT, HIGHLY SENSITIVE RDT, AND POLYMERASE CHAIN REACTION TO IDENTIFY MALARIA INFECTION AMONG PREGNANT WOMEN ATTENDING FIRST ANTENATAL CARE VISITS IN CHADIZA DISTRICT, ZAMBIA

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REINFORCING ADHERENCE TO NATIONAL GUIDELINES ON MALARIA CASE MANAGEMENT IN PRIVATELY-OWNED HEALTH FACILITIES: A CASE STUDY FROM OYO, NIGERIA

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MULTIPLEXED DDPCR-AMPLICON SEQUENCING TO UNDERSTAND *PLASMODIUM VIVAX* TRANSMISSION IN THE ETHIOPIAN HIGHLANDS

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BRAIN ENDOTHELIAL SECRETORY BIOMARKERS FOR SEVERE AND CEREBRAL MALARIA

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COMPARATIVE ANALYSIS OF PRIMARY HEALTH CARE PROVIDERS' ADHERENCE TO PARASITOLOGICAL DIAGNOSIS OF UNCOMPLICATED MALARIA USING BEHAVIORAL ECONOMICS PROTOTYPES IN AKWA IBOM, NIGERIA

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EVALUATION OF THE STANDARD G6PD RAPID TEST FOR THE DETERMINATION OF THE ENZYMATIC ACTIVITY OF G6PD

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APPLICATION OF MACHINE LEARNING IN A RODENT MODEL FOR RAPID AND ACCURATE PARASITE COUNTS

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SPATIAL HETEROGENEITY OF THE DISTRIBUTION OF PFHRP2/3 GENE DELETION IN ETHIOPIA AND CURRENT ALTERNATIVES TO EXCLUSIVE HRP2-BASED RDTS

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PLASMODIUM FALCIPARUM HISTIDINE-RICH PROTEIN 2 GENE DELETION SURVEILLANCE IN SENEGAL

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DETECTION AND QUANTIFICATION OF *PLASMODIUM VIVAX* DNA: CONCORDANCE BETWEEN PCR RESULTS ON PLASMA AND BLOOD PELLET SAMPLES FROM PATIENTS IN SENEGAL

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INTEGRATED FACILITY-BASED REFRESHER TRAINING AND, SUPPORTIVE SUPERVISION FOR STRENGTHENING HEALTHCARE PROVIDERS' CAPACITY FOR EFFECTIVE MALARIA CASE MANAGEMENT, PRODUCT SUPPLY MANAGEMENT AND SURVEILLANCE IN NIGERIA

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EXPANDING COMMUNITY CASE MANAGEMENT OF MALARIA TO ALL AGES CAN CONTRIBUTE TOWARDS UNIVERSAL ACCESS TO MALARIA DIAGNOSIS AND TREATMENT: RESULTS FROM A CLUSTER RANDOMIZED TRIAL

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DIGITALLY-ENHANCED RAPID MALARIA TESTING USING ARTIFICIAL INTELLIGENCE (AI) TO SUPPORT QUALITY CONTROL WITH COMMUNITY HEALTH WORKERS IN RWANDA

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Malaria - Drug Development and Clinical Trials

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EFFICACY OF ARTEMETHER-LUMEFANTRINE, ARTESUNATE-AMODIAQUINE, AND DIHYDROARTEMISININ-PIPERAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA AMONG CHILDREN IN THE CENTER AND NORTH REGIONS OF CAMEROON, 2021-2022

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THERAPEUTIC EFFICACY OF ARTESUNATE-AMODIAQUINE AND ARTEMETHER-LUMEFANTRINE FOR UNCOMPLICATED FALCIPARUM MALARIA TREATMENT IN FOUR SENTINEL SITES OF CÔTE D'IVOIRE, 2021

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AN *IN VIVO* SCREEN REVEALS NOVEL VULNERABILITIES IN THE MOSQUITO STAGES OF *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

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THERAPEUTIC EFFICACY OF ARTEMETHER-LUMEFANTRINE AND DIHYDROARTEMISININ-PIPERAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN MALI, 2020-2022

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A PHASE 2A TRIAL OF SJ733 FOR *P. VIVAX* MALARIA

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ARTESUNATE PYRONARIDINE IS A SAFE AND EFFICACIOUS TREATMENT FOR *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* IN ETHIOPIA WITH A STRONG TRANSMISSION REDUCING ROLE IN *PLASMODIUM VIVAX*

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Malaria - Epidemiology

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IMPACTS OF CYCLONE IDAI RELATED INFRASTRUCTURE DAMAGE ON MALARIA INCIDENCE IN SOFALA PROVINCE, MOZAMBIQUE

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COMPARING COMPARTMENTAL MODELS AND STATE SPACE MODELS WITH SPATIAL DYNAMICS. A CASE STUDY OF MALARIA

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A MATHEMATICAL MODEL FOR MICROSTRATIFICATION OF MALARIA INTERVENTIONS IN URBAN NIGERIA.

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HIGH PREVALENCE AND RISK OF SUBPATENT *PLASMODIUM FALCIPARUM* INFECTIONS IN REGIONS WITH LOW TRANSMISSION INTENSITIES AND THEIR IMPLICATION FOR MALARIA ELIMINATION IN TANZANIA

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(ACMCIP Abstract)

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INCIDENCE RATES OF MALARIA, MENINGITIS AND MORTALITY IN CHILDREN UNDER 5 YEARS OF AGE IN GHANA AND KENYA PRIOR TO THE ROLL-OUT OF THE MALARIA VACCINE

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USING MORTALITY AUDITS TO IDENTIFY FACTORS INCREASING MALARIA MORTALITY IN KARAMOJA, A HIGH-BURDEN REGION OF UGANDA

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PREVALENCE OF FALCIPARUM AND NON-FALCIPARUM MALARIA IN THE 2014-15 RWANDA DEMOGRAPHIC HEALTH SURVEY

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UNDERSTANDING MALARIA BEHAVIORAL RISK FACTORS IN SEASONAL MIGRANT WORKERS IN SELECTED MID-HIGHLAND AND LOWLAND DISTRICTS OF NORTHWEST AMHARA REGION, ETHIOPIA

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COINFECTION BURDEN AND RISK FACTORS OF MALARIA AND HELMINTH INFECTIONS AMONG PREGNANT WOMEN IN TANZANIA

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NOVEL METHODS TO ESTIMATE THE LIKELIHOOD OF MIXED-SPECIES INFECTIONS AND RELATIVE SPECIES ABUNDANCE IN MALARIA

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MALARIA TRANSMISSION IN GOLD MINING AREAS, A CHALLENGE TO OVERCOME IN THE BRAZILIAN AMAZON REGION

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PREVALENCE OF MALARIA AMONGST CHILDREN UNDER 5 AND ASSOCIATED FACTORS IN SUB-SAHARAN AFRICA: A POOLED ANALYSIS COVERING 33 COUNTRIES, 2000 - 2022

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SEVERE HAEMOLYSIS DURING PRIMAQUINE RADICAL CURE OF *PLASMODIUM VIVAX* MALARIA: TWO SYSTEMATIC REVIEWS AND INDIVIDUAL PATIENT DATA DESCRIPTIVE ANALYSES

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TRENDS OF MALARIA PREVALENCE AND ASSOCIATED RISK FACTORS AMONG SCHOOL AGE CHILDREN IN MAINLAND TANZANIA: CROSS-SECTIONAL SURVEYS FROM 2015 - 2021

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MOLECULAR SPECIATION OF *PLASMODIUM* FROM THE TWO LARGEST POPULATION CENTERS OF CAMEROON

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REDUCTION OF MALARIA CASE INCIDENCE FOLLOWING THE INTRODUCTION OF CLOTHIANIDIN-BASED INDOOR RESIDUAL SPRAYING IN PREVIOUSLY UNSPRAYED DISTRICTS: AN OBSERVATIONAL ANALYSIS USING HEALTH FACILITY REGISTER DATA FROM COTE D'IVOIRE, 2018-2022

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URBAN AND PERI-URBAN MALARIA: NEW EPIDEMIOLOGICAL LANDSCAPE OF MALARIA TRANSMISSION IN VENEZUELA

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REDUCING MALARIA CAUSED ABSENTEEISM AMONG ORPHANS AND VULNERABLE CHILDREN IN CAMEROON: A CROSS SECTIONAL STUDY AMONG TEACHERS AND CAREGIVERS

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EPIDEMIOLOGICAL CHARACTERISTICS OF MALARIA PARASITES IN SOKOTO STATE, NORTHWEST NIGERIA

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Malaria - Genetics, Genomics and Evolution

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RECURRENT DE NOVO MUTATION CONTRIBUTES TO DRUG RESISTANCE EVOLUTION IN *PLASMODIUM FALCIPARUM*

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MOST ABUNDANT *PLASMODIUM FALCIPARUM* GENE TRANSCRIPTS IN THE BLOOD OF KENYAN CHILDREN WITH ACUTE MALARIA

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GENETIC DIVERSITY OF *PLASMODIUM VIVAX* IN HIGH-RISK MALARIA AREAS IN CORDOBA, COLOMBIA

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GENOME-WIDE SINGLE NUCLEOTIDE POLYMORPHISM (SNP) ANALYSIS OF *PLASMODIUM FALCIPARUM* DRUG RESISTANCE-ASSOCIATED LOCI IN AREAS OF DIFFERENT MALARIA ENDEMICITY IN TANZANIA

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IMPACT OF *PLASMODIUM FALCIPARUM* INFECTION ON DNA METHYLATION OF CIRCULATING IMMUNE CELLS

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MICROSATELLITE CHARACTERIZATION AND ANTIGENIC SEQUENCING OF *PLASMODIUM FALCIPARUM* FIELD ISOLATES FROM KENYA, PERU, AND THAILAND FOR DOWN SELECTION OF A NEW STRAIN FOR USE IN CONTROLLED HUMAN MALARIA INFECTION STUDIES

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GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* RETICULOCYTE BINDING HOMOLOGUE-5 (PFRH5) IN REGIONS OF DIFFERENT MALARIA TRANSMISSION IN TANZANIA

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POPULATION GENOMICS OF *PLASMODIUM FALCIPARUM* AND MALARIA CONTROL: IMPLICATIONS IN ABIDJAN (COTE D'IVOIRE)

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ASSESSING TRANSMISSION DYNAMICS AND RELATEDNESS OF *PLASMODIUM FALCIPARUM* ON BIOKO ISLAND, EQUATORIAL GUINEA

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PLASMODIUM FALCIPARUM POPULATION STRUCTURE IN SOUTHWESTERN AFRICA, USING WHOLE GENOME SEQUENCE DATA: INITIAL GENOME-WIDE SEQUENCE DATA FROM ANGOLA

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SEQUENCE POLYMORPHISMS IN THE PFS47 6-CYSTEINE PROTEIN IN *PLASMODIUM FALCIPARUM* ISOLATES FROM ANGOLA, 2019

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DRUG RESISTANCE PROFILE OF *PLASMODIUM FALCIPARUM* IN THE COMMUNITIES OF CONDORCANQUI, AMAZONAS, PERU

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MOLECULAR EPIDEMIOLOGY OF NON-FALCIPARUM *PLASMODIUM* INFESTATIONS IN DIFFERENT AREAS OF THE IVORY COAST

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A MORE EFFECTIVE MULTIPLICITY OF INFECTION: INCORPORATING WITHIN-HOST RELATEDNESS AND GENOTYPING ERROR TO OBTAIN MORE ACCURATE ESTIMATES OF *PLASMODIUM* WITHIN-HOST DIVERSITY AND POPULATION ALLELE FREQUENCIES

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STRUCTURAL AND FUNCTIONAL ANNOTATION OF A UNIQUE HYPOTHETICAL PHOSPHATASE OF *PLASMODIUM VIVAX*

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BUZZWORTHY: NOVEL HIVE SEQUENCING TECHNOLOGY MAKES SINGLE-CELL SEQUENCING POSSIBLE FOR MALARIA FIELD ISOLATES

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(ACMCIP Abstract)

Malaria - Immunology

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ASSESSING THE INTERACTION BETWEEN NATURALLY-ACQUIRED PFCSP-SPECIFIC HUMORAL IMMUNITY AND THE PROTECTIVE EFFICACY OF THE ANTI-MALARIAL MONOCLONAL ANTIBODY CIS43LS

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THE PROTECTIVE ROLE OF MATERNALLY DERIVED ANTIBODIES AGAINST SYMPTOMATIC MALARIA IN THE FIRST YEAR OF LIFE

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DENGUE AND MALARIA IMMUNE CROSSTALK: UNDERSTANDING THE IMPORTANCE OF CO-INFECTIONS IN ENDEMIC REGIONS

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T CELL RESPONSES AGAINST LIVER STAGE *P. FALCIPARUM* ANTIGENS IN UGANDAN CHILDREN EXPOSED TO MALARIA

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OFF-TARGET ANTIBODY RESPONSES INDUCED BY RTS,S/AS02A/1B IN MALARIA-NAÏVE ADULTS ASSOCIATED WITH PROTECTION AGAINST CONTROLLED HUMAN MALARIA INFECTION

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ROLE OF MALARIA AND EPSTEIN-BARR VIRUS IN PEDIATRIC CANCER DEVELOPMENT IN MALAWIAN CHILDREN

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(ACMCIP Abstract)

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OPSONIC PHAGOCYTOSIS OF *PLASMODIUM FALCIPARUM* MEROZOITES IS ASSOCIATED WITH PROTECTION FROM CLINICAL MALARIA IN AN AREA OF LOW AND UNSTABLE MALARIA TRANSMISSION

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QUANTIFYING THE EFFECT OF NUMBER OF INFECTIONS ON MALARIA IMMUNITY

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(ACMCIP Abstract)

6888

ITERACTIVE SUBTRACTIVE BIOPANNING OF A *PLASMODIUM FALCIPARUM* SEXUAL STAGE (I-III) PHAGE DISPLAY LIBRARY IDENTIFIES A POTENTIAL TARGET OF ANTI-GAMETOCYTE IMMUNE RESPONSES

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(ACMCIP Abstract)

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CYTOMEGALOVIRUS VECTOR PROLONGS LIVE MALARIA VACCINE IMMUNITY THROUGH INNATE AND ADAPTIVE MECHANISMS

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(ACMCIP Abstract)

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VΔ2+ ΓΔ T CELL CHROMATIN ACCESSIBILITY AND IMMUNE FUNCTION ASSOCIATES WITH PRIOR MALARIA INCIDENCE

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(ACMCIP Abstract)

Malaria - Pathogenesis

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ELEVATED LEVELS OF CEREBROSPINAL FLUID NEURON-SPECIFIC ENOLASE ARE ASSOCIATED WITH LONG-TERM NEUROLOGIC AND COGNITIVE IMPAIRMENT IN CHILDREN WITH CEREBRAL MALARIA

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ELEVATED RENIN PREDICTS MORTALITY IN CHILDREN WITH SEVERE MALARIA

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ASSOCIATION OF XANTHINE OXIDASE LEVELS AND DEVELOPMENT OF SEVERE MALARIAL ANEMIA

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LONGITUDINAL CLONAL PARASITE DYNAMICS FOLLOWING ARTEMETHER-LUMEFANTRINE TREATMENT FOR MALARIA IN HIV-INFECTED AND HIV-UNINFECTED CHILDREN IN UGANDA

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INVESTIGATING MICROBIOME AND TIGHT JUNCTION INTEGRITY IN THE GUT DURING *PLASMODIUM KNOWLESI* INFECTION IN MACAQUES

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(ACMCIP Abstract)

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THE SEVERE MALARIA TRIUMVIRATE: AN INVESTIGATION OF ABO BLOOD GROUP, ROSETTE FORMATION, AND PFEMP1 TYPE

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(ACMCIP Abstract)

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DEDUCING THE EFFECT OF VARIABLE OXYGEN CONCENTRATIONS ON *PLASMODIUM FALCIPARUM* GROWTH

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PREDISPOSING FACTORS RELATED TO THE PVMSP3ALFA GENE AND THE CYTOKINE RESPONSE IN VIVAX MALARIA.

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HOST-DERIVED LIPIDS SHAPE *PLASMODIUM FALCIPARUM* DEVELOPMENT AND PATHOGENICITY: AN INTEGRATIVE MULTI-OMICS ANALYSIS IN MALARIA-INFECTED CHILDREN

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PROFILE OF ENDOTHELIAL BIOMARKERS (ANGIOPOEITIN-1 AND ANGIOPOIETIN- 2) IN PATIENTS WITH UNCOMPLICATED MALARIA IN LAGOS

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Malaria - Prevention

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THE ROLE OF PSYCHOSOCIAL FACTORS IN NET USE IN KENYA: FINDINGS FROM THE KENYA MALARIA BEHAVIOR SURVEY

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A FIVE-ARM TRIAL COMPARING ARTESUNATE-AMODIAQUINE AND ARTEMETHER-LUMEFANTRINE-AMODIAQUINE WITH OR WITHOUT SINGLE-DOSE PRIMAQUINE TO REDUCE *P. FALCIPARUM* TRANSMISSION IN MALI

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A QUASI-EXPERIMENTAL STUDY TO ESTIMATE EFFECTIVENESS OF SEASONAL MALARIA CHEMOPREVENTION IN AWEIL SOUTH COUNTY IN NORTHERN BAHR EL GHAZAL, SOUTH SUDAN

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DIGITAL TRANSFORMATION IN HEALTH: GUINEAN EXPERIENCE OF USING A NATIVE ANDROID APPLICATION COUPLED WITH DHIS2 IN THE 2022 NATIONAL ITN DISTRIBUTION CAMPAIGN

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PLASMODIUM FALCIPARUM MALARIA INFECTION AND ANEMIA PREVALENCE IN UNDER FIVE YEAR OLD CHILDREN RECEIVING SEASONAL CHEMOPREVENTION IN A VILLAGE OF TANGHIN WOOBDO BURKINA FASO

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INTERMITTENT PREVENTIVE TREATMENT (IPT) OF MALARIA IN PREGNANCY WITH MEFLOQUINE MAY REDUCE NEVIRAPINE LEVELS AMONG HIV-INFECTED WOMEN

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CONTRIBUTION OF ACCESS IN THE IMPROVEMENT OF IPTP3 COVERAGE AMONG PREGNANT WOMEN IN MADAGASCAR, 2019 - 2022

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COMBINING SMC ACTIVITIES WITH CATCH-UP IMMUNIZATION AND COMMUNITY MALARIA CASE MANAGEMENT IN GUINEA

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THE IMPORTANCE OF QUANTIFICATION TO OPTIMIZE RESOURCE MOBILIZATION FOR A CONTINUOUS SUPPLY OF ANTIMALARIAL COMMODITIES IN MADAGASCAR

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PSYCHOSOCIAL FACTORS ASSOCIATED WITH INTENTIONS FOR SEEKING EARLY ANC DURING A FUTURE PREGNANCY: FINDINGS FROM THE KENYA MALARIA BEHAVIOR SURVEY

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IMPACT OF COMMUNITY-BASED PROMOTION OR FOCUSED MALARIA IN PREGNANCY TRAINING FOR HEALTH PROVIDER ON THE COVERAGE OF INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY IN SAN, MALI

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NEW TREATMENT REGIMEN OF SEASONAL MALARIA CHEMOPREVENTION A PROMISING ALTERNATIVE TO DISRUPT *PLASMODIUM* OF TRANSMISSION IN THE FIELD

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MULTI-LEVEL AND EVIDENCE-BASED ADVOCACY SUPPORTED INCREASED UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA AMONG PREGNANT WOMEN OF CROSS RIVER STATE, NIGERIA

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COMPARISON OF DIARY-REPORTED BEDNET USE ACTIVITIES AND ACCELEROMETER-BASED BEDNET DATA FROM COTE D'IVOIRE

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ESTIMATING THE IMPACT OF LLIN USE PATTERNS ON *ANOPHELES* MOSQUITO EXPOSURE AMONG SCHOOL-AGED CHILDREN IN UGANDA

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IMPACT EVALUATION OF SEASONAL MALARIA CHEMOPREVENTION THROUGH ANALYSIS OF LARGE, AGGREGATED ROUTINE COVERAGE SURVEYS IN NIGERIA, BURKINA FASO, CHAD, TOGO AND MOZAMBIQUE (2020-2022)

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COVERAGE OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN INFANTS AFTER FOUR YEARS OF IMPLEMENTATION IN SIERRA LEONE.

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ARTEMETHER-LUMEFANTRINE AS A CHEMOPROPHYLACTIC TREATMENT OF MALARIA

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USING MODELING TO ASSESS THE OPERATIONAL AND EPIDEMIOLOGICAL FACTORS AFFECTING EFFECTIVENESS OF PRAGMATIC PERENNIAL CHEMOPREVENTION IN OSUN STATE, SOUTHERN NIGERIA

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MODELLING THE PUBLIC HEALTH IMPACT OF PERENNIAL MALARIA CHEMOPREVENTION: CURRENT GUIDELINES AND A PROPOSED AGE-EXPANSION

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HARNESSING COMMUNITY HEALTH WORKERS TO IMPROVE PMC UPTAKE IN CAMEROON: INSIGHTS FROM THE PLUS PROJECT

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ADOPTION OF A PERENNIAL MALARIA CHEMOPREVENTION (PMC) STRATEGY IN BENIN: A CO-DESIGN PROCESS

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KNOWLEDGE, ATTITUDES, PRACTICES AND ACCEPTABILITY OF DIGITAL PAYMENT BY OPERATORS OF THE INDOOR SPRAYING CAMPAIGN AGAINST MALARIA IN THE HEALTH DISTRICT OF KOUMPENTOUM (SENEGAL)

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MECHANISMS FOR MANAGEMENT MISSINGNESS OF DATA IN THE HEALTH MANAGEMENT SYSTEM A CASE OF UGANDA MALARIA CONTROL PROGRAM

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MONITORING, MENTORING AND MOTIVATION VISITS TO COMMUNITY HEALTH WORKERS AS A MECHANISM TO SUSTAIN HIGH QUALITY OF CARE IN MALARIA COMMUNITY CASE MANAGEMENT: A CASE OF FOUR HIGH MALARIA BURDEN PROVINCES IN ZAMBIA

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GENETIC ANALYSIS OF MALARIA IN PALAWAN, PHILIPPINES REVEALS HIGHLY MONOCLONAL INFECTIONS IN HIGH TRANSMISSION AREA

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A PROGRAM EVALUATION OF COMMUNITY HEALTH WORKER-LED REACTIVE CASE DETECTION AND ITS IMPACT ON MALARIA MORBIDITY AND MORTALITY IN ZAMBIA

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DOCUMENTING THE EVIDENCE OF ROUTINE DATA QUALITY AUDITS ON MALARIA DATA REPORTING ACCURACY IN ZAMBIA, 2015-2021

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LOST TIME, LOST LIVES: INVESTIGATING DETERMINANTS OF DELAYED MALARIA TREATMENT IN SUB-SAHARAN AFRICA'S CHILDREN

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IMPLEMENTING GENOMIC SURVEILLANCE FOR MALARIA IN GHANA: OPPORTUNITIES AND CHALLENGES

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PRIORITIZATION OF *PLASMODIUM FALCIPARUM* ANTIGENS ASSOCIATED WITH REDUCED RISK OF MALARIA DURING PREGNANCY

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EFFICACY OF R21/MATRIX-M™ IS MAINTAINED IN A PHASE IIB TRIAL IN CHILDREN IN BURKINA FASO OVER FOUR MALARIA SEASONS

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STRUCTURE-BASED DESIGN OF A STRAIN-TRANSCENDING SINGLE-COMPONENT AMA1-RON2L MALARIA VACCINE

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EVALUATION OF THE SAFETY AND IMMUNOGENICITY OF A SINGLE- VERSUS TWO-VIAL PRESENTATION OF R21/MATRIX-M™ IN CHILDREN IN MALI

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A SYSTEMATIC REVIEW OF *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN BASED VACCINE CANDIDATES: IMPACT OF ANTIGEN, DOSE AND ADJUVANT ON PROTECTIVE EFFICACY AGAINST CONTROLLED HUMAN MALARIA INFECTION CHALLENGE

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GENETIC DIVERSITY & NATURAL SELECTION OF A MALARIA VACCINE CANDIDATE GENE IN THE ETHIOPIAN *PLASMODIUM VIVAX* POPULATION

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(ACMCIP Abstract)

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SAFETY OF THE MALARIA VACCINE CANDIDATE R21/MATRIX-M™WHEN CO-ADMINISTERED WITH EPI VACCINES FOR MEASLES-RUBELLA AND YELLOW FEVER AT 9 MONTHS OF AGE IN MALIAN CHILDREN

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MACHINE LEARNING FOR *PLASMODIUM FALCIPARUM* REVERSE VACCINOLOGY

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BIOPHYSICAL CHARACTERIZATION OF NOVEL HUMAN MONOCLONAL ANTIBODIES TARGETING *PLASMODIUM VIVAX* APICAL MEMBRANE ANTIGEN 1

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COMPARISON OF JUNCTIONAL, MINOR REPEAT, AND MAJOR REPEAT-FOCUSED CIRCUMSPOROZOITE VACCINES USING THE TOBACCO MOSAIC VIRUS EPITOPE DISPLAY PLATFORM

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IMMUNOGENICITY OF A *PLASMODIUM VIVAX* CIRCUMSPOROZOITE PROTEIN NANOPARTICLE VACCINE

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COMPARABILITY OF THE STANDARD MEMBRANE FEEDING ASSAY (SMFA) ACROSS DIFFERENT VACCINE STUDIES, STUDY SITES, AND TIME

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BUILDING A NEXT-GENERATION PRIME-AND-TRAP PRE-ERYTHROCYTIC MALARIA VACCINE

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EXPLORING IMMUNITY INDUCED BY *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE, PRE-ERYTHROCYTIC VACCINE CANDIDATE, FMP014/ALFQ

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Bacteriology - Enteric Infections

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MATERNAL ENVIRONMENTAL ENTERIC DYSFUNCTION AND MATERNAL MALNUTRITION: EFFECT ON MATERNAL AND INFANT MICROBIOTA AND MOTHER-INFANT TRANSFER OF DYSBIOSIS IN CENTRAL-AFRICA

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ANTIMICROBIAL RESISTANCE IN E. COLI ISOLATED FROM DIARRHEAL STOOLS IN CHILDREN AGED 0-3 YEARS AT THE YIRIMADIO COMMUNITY HEALTH CENTER, MALI

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COMPARATIVE EVALUATION OF ANTIMICROBIAL SUSCEPTIBILITY OF SHIGELLA ISOLATES AMONG CHILDREN <5 YEARS IN RURAL KENYA PRE AND POST ROTAVIRUS VACCINE INTRODUCTION

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PARASITIC AND ANTIBIOTIC-RESISTANT BACTERIAL CONTAMINATION OF RAW SALAD VEGETABLES SOLD IN LOCAL MARKETS OF DHAKA, BANGLADESH

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HOSPITALISATION AND MORTALITY RATES AMONG CHILDREN WITH MODERATE TO SEVERE DIARRHOEA TREATED WITH AZITHROMYCIN OR PLACEBO: A RANDOMISED CONTROLLED TRIAL

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THE ROLE OF VILLAGE DOCTORS IN THE TREATMENT OF PEDIATRIC DIARRHEA AND POTENTIAL FOR ANTIMICROBIAL STEWARDSHIP IN RURAL BANGLADESH: A DESCRIPTIVE ANALYSIS

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SAFETY, IMMUNOGENICITY, AND EFFICACY OF ETVAXÂ VACCINE AGAINST ENTEROTOXIGENIC E. COLI-ASSOCIATED DIARRHEA IN GAMBIAN CHILDREN AGED 6 TO 18 MONTHS

M. Jahangir Hossain[1], Fatou Secka[1], Lady C. Sanyang[1], Taiwo Raifu[1], Emmanuel C. Okoh[1], Olubunmi A. Olubiyi[1], Mbemba Drammeh[1], Emmanuel U. Richard[1], Mama Drammeh[1], Samba Juma Jallow[1], Ousman Secka[1], Anna Roca[1], Nils Nils[2], Ann-Mari Svennerholm[3], Anna Hill[2], Umberto D' Alessandro[1], Thomas F. Wierzba[4]
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A LONGITUDINAL COMMUNITY ASSESSMENT OF PLASMA CITRULLINE IN TWO COHORTS OF BANGLADESHI INFANTS

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ANTIMICROBIAL RESISTANCE TO ANTIBIOTICS AT A COMMUNITY-LEVEL HEALTH FACILITY IN MALI: A NANOPORE SEQUENCING AS A TOOL FOR AMR SURVEILLANCE

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CHOLERA DEATHS DURING OUTBREAKS IN UVIRA, EASTERN DEMOCRATIC REPUBLICOF CONGO, SEPTEMBER 2021-JANUARY 2023

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A PATHWAY TO A MORE DURABLE CHOLERA RAPID DIAGNOSTIC TEST (RDT)

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GENOMIC EPIDEMIOLOGY OF CAMPYLOBACTER SPP. ISOLATED FROM CHILDREN WITH MEDICALLY ATTENDED DIARRHEA IN IQUITOS, PERU

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SEROINCIDENCE OF ENTERIC FEVER IN RURAL AND URBAN POPULATIONS OF SIERRA LEONE

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A SPOTTED RASH HELPS SPOT A RARE PATHOGEN: CAPNOCYTOPHAGA CANIMORSUSENDOCARDITIS WITH GLOMERULONEPHRITIS

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EVALUATION OF VIRULENCE GENE REPERTOIRE AS A MEANS TO ESTABLISH THE ROLE OF ESCHERICHIA COLI ISOLATED POSTMORTEM IN THE CAUSAL PATHWAY TO DEATH

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FACTORS ASSOCIATED WITH IN-HOSPITAL MORTALITY IN ADULT PATIENTS WITH SEPSIS AT TWO RURAL BORDER PROVINCES OF THAILAND

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DETECTING AND TREATING SEPTIC SHOCK IN DIARRHEAL PATIENT WITH POINT OF CARE (POC) LACTATE TESTING: A LIFE-SAVING STRATEGY BEYOND ICU

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GRAM (-) BACTEREMIA IS ASSOCIATED WITH AN INCREASED BURDEN OF CHILDHOOD SEVERE MALARIAL ANEMIA IN A HOLOENDEMIC *PLASMODIUM FALCIPARUM* TRANSMISSION REGION OF WESTERN KENYA

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CHARACTERIZATION OF ACINETOBACTER SPP. ISOLATED FROM BLOOD AND URINE OF PATIENTS IN RURAL GHANA

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LEPTOSPIROSIS AMONG HOSPITALIZED PATIENTS WITH ACUTE FEBRILE ILLNESS IN BANGLADESH

Tanzir Ahmed Shuvo[1], Anik Palit[1], Mohammed Ziaur Rahman[1], Zubair Akhtar[1], Probir Kumar Ghosh[1], Muntasir Alam[1], Md. Mahfuzur Rahman[1], Mahmudur Rahman[2], Pawan Angra[3], Matthew Mikoleit[3], Daniel Martin[3], Fahmida Chowdhury[1]
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NANOPORE SEQUENCING USING THE FULL LENGTH 16S RRNA GENE IS A PROMISING VETERINARY DIAGNOSTIC TOOL FOR THE DETECTION OF BLOOD-BORNE BACTERIAL PATHOGENS

Lucas Huggins, Vito Colella, Rebecca Traub
University of Melbourne, Melbourne, Australia

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ÉCOLOGIE BACTÉRIENNE ET PROFIL DE RÉSISTANCE BACTÉRIENNE AUX ANTIBIOTIQUES DANS LE SERVICE DE MÉDECINE ET D'UROLOGIE DU CHU BSS DE KATI

Hamsatou CISSE[1], Youba Sangaré[1], Abdramane Traoré[1], Nagou Tolo[1], Amadou Kassogué[1], Djeneba Diagne[1], Cheick Oumar Sanogo[1], Boureima Kodio[2], Abdoulaye Traoré[3], Garan Dabo[4], Yacouba Cissoko[3], Ghislain Poda[5], Daouda k Minta[3]
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ANTIMICROBIAL SUSCEPTIBILITY PATTERNS OF GRAM NEGATIVE BACTERIA GRAM POSITIVE BACTERIA AND FUNGI SPECIES ISOLATED FROM BLOOD CULTURE BOTTLES IN YAOUNDE CAMEROON

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NEONATAL PAENIBACILLIOSIS: A NOVEL INFECTION LEADING TO INFECTIOUS HYDROCEPHALUS IN INFANTS

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Cestodes (including taeniasis and cysticercosis, echinococcosis/hydatid disease, and others)

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ASSESSMENT OF THE ANTIGEN DYNAMICS DURING THE CALCIFICATION PROCESS IN NATURALLY INFECTED PIGS

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CONCORDANCE BETWEEN TWO ANTIGEN-DETECTION ENZYME-LINKED IMMUNOSORBENT ASSAYS IN DETECTING URINARY ANTIGENS AND MONITORING ANTIGEN DECAY IN PATIENTS WITH NEUROCYSTICERCOSIS

Luz M. Toribio[1], Carolina Guzman[1], Yesenia Castillo[1], Cindy Espinoza[1], Gianfranco Arroyo[1], Herbert Saavedra[2], Javier Bustos[1], Pierre Dorny[3], Seth O'Neal[4], Hector H. Garcia[5]
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PHENOTYPIC DETERMINATION OF REGULATORY T AND B REGULATORY CELLS IN NEUROCYSTICERCOSIS PATIENTS

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CALCIFIED PORCINE NEUROCYSTICERCOSIS: IMMUNOHISTOCHEMISTRY BASED ON MONOCLONAL ANTIBODIES (MABS) FOR RESIDUAL ANTIGENS DETECTION

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RESIDUAL CALCIFICATION IN NEUROCYSTICERCOSIS: NOT ONLY IN PARENCHYMAL CYSTS

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MRI SPECTROSCOPY OF PATIENTS WITH SUBARACHNOID AND PARENCHYMAL NEUROCYSTICERCOSISRACEMOSA AND PARENCHYMAL NEUROCYSTICERCOSIS OF THE NATIONAL INSTITUTE OF NEUROLOGICALSCIENCES, LIMA, 2021-2022

Carolina Guzman[1], Erick Castillo[2], Norvind Gamboa[3], Daniel Bustamante[4], Herbert Saavedra[3], Isidro Gonzales[3], Javier Bustos[4], Hector Garcia[4]
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TRANSCRANIAL DOPPLER ULTRASONOGRAPHY TO DETECT VASCULITIS IN NEUROCYSTICERCOSIS

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CONCORDANCE BETWEEN TWO MONOCLONAL ANTIBODY-BASED (MAB) ENZYME-LINKEDIMMUNOSORBENT ASSAYS (ELISAS) FOR MEASURING CYSTICERCUS ANTIGEN LEVELS INSERA FROM PIGS EXPERIMENTALLY INFECTED WITH TAENIA SOLIUM AND TAENIA HYDATIGENA

Gianfranco Arroyo[1], Luz M. Toribio[1], Sara Garrido[2], Nancy Chile[3], Teresa Lopez[2], Luis Gomez[2], Robert Gilman[4], Javier Bustos[5], Pierre Dorny[6], Seth O'Neal[7], Sukwan Handali[8], Armando Gonzales[2], Hector Garcia[5]
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THE EARLY STAGE OF TAENIA SOLIUM CYSTICERCUS SECRETE TRANSFORMING GROWTH FACTOR-BETA MIMIC PROTEINS

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(ACMCIP Abstract)

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EVALUATION OF AXONAL TRANSPORT DAMAGE IN AN ANIMAL MODEL OF NEUROCYSTICERCOSIS

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(ACMCIP Abstract)

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EVALUATION OF OLIGODENDROCYTE DENSITY AND APOPTOSIS DAMAGE AT DIFFERENT POST-INFECTION TIMES IN A RAT MODEL WITH NEUROCYSTICERCOSIS

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(ACMCIP Abstract)

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GASDERMIN D IMMUNOREACTIVITY IN RAT BRAIN TISSUES WITH NEUROCYSTICERCOSIS

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(ACMCIP Abstract)

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NITRO-OXIDATIVE STRESS AND NEURONAL DAMAGE IN A RAT MODEL FOR NEUROCYSTICERCOSIS PRESENTING EPILEPSY

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Clinical Tropical Medicine

6999

AN UPDATE ON THE CLINICAL-EPIDEMIOLOGY OF NEGLECTED SEXUALLY TRANSMITTED INFECTIONS IN IMPOVERISHED SOUTHERN USA ADOLESCENT POPULATIONS

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7000

CLINICAL, EPIDEMIOLOGICAL, HISTOPATHOLOGICAL, AND SOCIO-ECONOMIC PANORAMA OF LEPROSY PATIENTS IN A TERTIARY CENTER ACROSS THE NEPAL-INDIA BORDER IN THE POST-ELIMINATION ERA: A CROSS-SECTIONAL STUDY

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7001

SPOT SEPSIS: PREDICTION OF DISEASE SEVERITY IN YOUNG CHILDREN WITH ACUTE FEBRILE ILLNESSES IN RESOURCE LIMITED SETTINGS

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7002

NANOPORE SEQUENCING OR MICROARRAY DETECTION OF PATHOGENS IN BLOOD: SIDE-BY-SIDE COMPARISON

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7003

EVALUATION OF THE IMPACT ON CHILDHOOD MORTALITY OF AZITHROMYCIN PLUS INTERMITTENT PREVENTIVE TREATMENT ADMINISTERED THROUGH THE EXPANDED PROGRAM OF IMMUNIZATION IN SIERRA LEONE

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7004

A RANDOMIZED CLINICAL TRIAL INVESTIGATING THE EFFECT OF BCG REVACCINATION ON THE RESPONSE TO UNRELATED VACCINES IN UGANDAN ADOLESCENTS: THE POPVAC C TRIAL

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7005

DIFFERENTIATION OF ACUTE EXACERBATIONS OF CHRONIC HEPATITIS B AND ACUTE HEPATITIS B IN ANTIHBC IGM POSITIVE PATIENTS AT HOSPITAL FOR TROPICAL DISEASESIN VIETNAM

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7006

ALPHA-GAL ALLERGY SEROPREVALENCE IN RURAL AND MINORITY POPULATIONS, EVIDENCE ALPHA-GAL SYNDROME IS A NEGLECTED DISEASE IN THE SOUTHERN USA

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7007

STOOL CALPROTECTIN AND ASSOCIATED GUT-PATHOGENS IN A COHORT OF PATIENTS WITH GIT DISORDERS WITH AND WITHOUT IMMUNE-MEDIATED INFLAMMATORY INTESTINAL DISEASES IN SAUDI ARABIA

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7008

CLINICAL CHARACTERIZATION AND ANALYSIS OF INFLAMMATION AND COAGULATION OF LASSA FEVER PATIENTS TREATED AT THE IRRUA SPECIALIST TEACHING HOSPITAL IN EDO STATE, NIGERIA IN 2022 AND 2023

Cyril Erameh[1], Osahogie Edeawe[1], Joseph Okeguale[1], Jerome Christian[1], Iboi Matthew[1], Hannah Müller[2], Matin Kohsar[2], Christian Erohubie[1], Benevolence Ohomoime[2], Rita Esumeh[1], Charity Oseghale[1], Aiterebhe Ujiagbe[1], Charlotte Kriebel[2], Ludmila Unrau[2], Anke Thielebein[2], Colette Sih[2], Stephan Günther[2], Michael Ramharter[2], Sylvanus Okogbenin[1], Lisa Oestereich[2], **Till Omansen**[2]

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CHAGAS DISEASE CLINICS IN ENDEMIC LOCALITIES FROM ARGENTINA: RESULTS FROM 2015 TO 2022

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7010

ISOLATED HYPERPARASITEMIA IN IMPORTED SEVERE *PLASMODIUM FALCIPARUM* MALARIA: NO PREDICTOR FOR COMPLICATIONS

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7011

THE BURDEN AND IMPACT OF TORCH INFECTIONS AMONG PERINATAL WOMEN AND THEIR NEONATES IN EL SALVADOR

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7012

HEALTH-RELATED QUALITY OF LIFE (HRQOL) AND FATIGUE IN THE DENGUE CONVALESCENCE PHASE DURING AN OUTBREAK (2019-2020) IN BUCARAMANGA, COLOMBIA.

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7013

FAS-2 ELISA FOR FOLLOW-UP OF SCHOOL-AGE CHILDREN WITH CHRONIC FASCIOLA HEPATICA INFECTION TREATED IN RURAL CUSCO, PERU

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PHYSICIAN KNOWLEDGE OF CHAGAS DISEASE IN NEW ORLEANS

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7015

UNVEILING CONGENITAL SYPHILIS THROUGH MINIMALLY INVASIVE TISSUE SAMPLING: A CASE REPORT FROM CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE, BANGLADESH SITE

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RAISING STANDARDS IN DIAGNOSTIC PARASITOLOGY - PERSPECTIVES FROM AN INTERNATIONAL EQA SCHEME

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Helminths – Nematodes – Filariasis (Cellular and Molecular Biology)

7017

PURIFICATION OF EXTRACELLULAR VESICLES PRODUCED BY FILARIAL PARASITES FOR PROTEOMIC DETECTION OF BIOMARKER CANDIDATES IN HUMAN PLASMA

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7018

TOWARDS IMPROVED ONCHOCERCIASIS DIAGNOSTICS: CHARACTERIZATION OF A MAJOR ANTIGEN OF ONCHOCERCA VOLVULUS IDENTIFIED FROM THE PLASMA OF INFECTED INDIVIDUALS

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(ACMCIP Abstract)

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THE POLY-LYSINE PEPTIDE AS A BROAD-SPECTRUM ANTIPARASITIC, AND EFFECTIVE AGAINST FILARIAL AND MALARIA PARASITES

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Helminths – Nematodes – Filariasis (Clinical)

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ASSOCIATION BETWEEN BLOOD LOA LOA MICROFILARIAL DENSITY AND PROTEINURIA LEVELS: A POPULATION-BASED CROSS-SECTIONAL STUDY IN A RURAL AREA OF THE REPUBLIC OF CONGO

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ASSOCIATION BETWEEN ARTERIAL STIFFNESS AND LOA LOA MICROFILAREMIA A POPULATION BASED CROSS-SECTIONAL STUDY IN A RURAL AREA OF THE REPUBLIC OF CONGO

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EFFICACY AND FEASIBILITY OF SHORT-STRETCH COMPRESSION GARMENTS ENABLED BY THREE-DIMENSIONAL INFRARED IMAGING FOR STAGE 3 FILARIAL LYMPHEDEMA IN SRI LANKA

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IDENTIFICATION OF NOVEL POTENTIAL BIOMARKERS FOR BANCROFTIAN FILARIASIS

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PLASMA PENTRAXIN 3 AND ANGIOPOIETINS ARE ELEVATED IN LYMPHATIC FILARIASIS LYMPHEDEMA PATIENTS WITH ESSENTIAL HYPERTENSION

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FIELD EVALUATION OF STANDARD Q FILARIASIS ANTIGEN TEST FOR LYMPHATIC FILARIASIS (LF) DURING A PRE-TRANSMISSION ASSESSMENT SURVEY IN SIERRA LEONE, 2022

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EFFECT OF SEASONALITY AND HYGIENE ON THE INCIDENCE OF ACUTE FILARIAL ATTACKS IN PATIENTS WITH LYMPHEDEMA IN MALI

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THE CLINICAL SPECTRUM OF LYMPHATIC FILARIASIS. A CASE OF PROTEIN-LOSING ENTEROPATHY

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Helminths – Nematodes – Filariasis (Other)

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SHIFT IN THE SKIN MICROBIOME AMONG INDIVIDUALS PRESENTING WITH FILARIAL LYMPHEDEMA COMPARED TO NON-FILARIAL HEALTHY INDIVIDUALS IN GHANA

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DETECTION AND DISCRIMINATION OF O. VOLVULUS AND O. OCHENGI FROM BLACKFLY POOL DNA USING A NOVEL POLYMERASE CHAIN REACTION - RESTRICTION FRAGMENT LENGTH POLYMORPHISM (PCR-RFLP) TECHNIQUE

Isaac Owusu-Frimpong, Edward Jenner Tettevi, Queenstar Dedei Quarshie, Naa Adjeley Kuma, Nfayem Imoro, Yusuf Al-Mahroof, Reuben Enchill, Mawutor K. Ahiabu, Mike Yaw Osei-Atweneboana

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ANTIBIOTIC RESISTANCE AND MECA CHARACTERIZATION OF STAPHYLOCOCCUS HOMINIS FROM FILARIAL LYMPHEDEMA PATIENTS IN THE AHANTA WEST DISTRICT, GHANA: A CROSS-SECTIONAL STUDY

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GUIDELINES FOR SELECTION OF FIRST- AND THIRD-LINE COMMUNITIES FOR MONITORING AND EVALUATION DURING ONCHOCERCIASIS ELIMINATION MAPPING

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DEVELOPING A TRAP FOR AFRICAN CHRYSOPS SPECIES TO ACCELERATE ONCHOCERCIASIS ELIMINATION: PROOF OF CONCEPT IN CAMEROON

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COMPARISON OF SPONTANEOUS VS IVERMECTIN-INDUCED CROSS-REACTIVE ANTIGENEMIA IN LOIASIS

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(ACMCIP Abstract)

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EFFORT TOWARDS ELIMINATION OF LYMPHATIC FILARIASIS IN CAMEROON: RESULTS OF THE LAST TRANSMISSION ASSESSMENT SURVEY IN 20 HEALTH DISTRICTS OF ADAMAOUA, CENTER AND FAR-NORTH REGION

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IMPLEMENTING THE LYMPHATIC FILARIASIS REPEAT PRE-TRANSMISSION SURVEY IN A CONTEXT OF INSECURITY IN TWO HEALTH DISTRICTS IN BURKINA FASO

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EFFORTS TOWARD ELIMINATION OF LYMPHATIC FILARIASIS IN GUINEA: RESULTS OF TRANSMISSION ASSESSMENT SURVEYS (TAS1) IN 11 HEALTH DISTRICTS

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EXAMINATION OF METABOLITE BIOMARKERS OF LOIASIS REVEALS PROMISING CANDIDATES PREDICTIVE OF MICROFILAREMIA

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(ACMCIP Abstract)

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EXAMINING THE OVERLAP IN LYMPHATIC FILARIASIS PREVALENCE AND MALARIA INSECTICIDE-TREATED NET ACCESS AND USE IN AFRICA

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LYMPHATIC FILARIASIS TREATMENT STUDIES: THE CASE FOR AN INDIVIDUAL PARTICIPANT-LEVEL DATA PLATFORM

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Integrated Control Measures for Neglected Tropical Diseases (NTDs)

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MOVING TOWARD PERSON CENTERED CARE FOR NTDS INTEGRATION OF MENTAL HEALTH WITHIN CASE MANAGEMENT NTDS IN LIBERIA

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THE IMPACT OF INDEPENDENT MONITORING (COVERAGE SURVEY) AGAINST THE 2019 MASS DRUG ADMINISTRATION DATA: THE USE OF IVERMECTIN AND ALBENDAZOLE IN LIBERIA

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Kinetoplastida and Other Protozoa - Epidemiology (Including Leishmania and Trypanosomes)

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INTEGRATED SEROLOGICAL SURVEILLANCE FOR MULTIPLE INFECTIOUS DISEASES IN VANUATU

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LESSONS LEARNED FROM DEPLOYING ELECTRONIC DATA COLLECTION AS PART OF MASS DRUG ADMINISTRATION CAMPAIGNS IN SOUTH SUDAN

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COMMUNITY ENGAGEMENT TO ACCELERATE ONCHOCERCIASIS ELIMINATION IN CAMEROUN

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NTD AMBASSADORIAL ENGAGEMENTS: STRATEGY FOR HIGH-LEVEL DECISION MAKING AND ADVOCACY TOWARDS RESOURCE MOBILIZATION FOR THE CONTROL AND ELIMINATION OF NTDS IN GHANA

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KNOWLEDGE, ATTITUDE, AND PRACTICE OF MOTHERS TOWARD CHAGAS DISEASE IN LA GUARDIA, SANTA CRUZ DEPARTMENT, BOLIVIA: A CROSS-SECTIONAL STUDY

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PORTABLE SMARTPHONE-BASED MOLECULAR TEST TO SUPPORT THE ELIMINATION PROGRAM OF LEISHMANIA DONOVANI

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REACHING THE LAST MILE IN ONCHOCERCIASIS ELIMINATION IN MALI: RESPONDING TO PRE-STOP FAILURE

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DIGITAL INNOVATION FOR EFFECTIVE MANAGEMENT OF NEGLECTED TROPICAL DISEASE PROGRAMME DATA; LESSONS AND CHALLENGES

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LESSONS LEARNED ON FINGER-INKING AS A MEANS OF COVERAGE VERIFICATION FOR MASS DRUG ADMINISTRATION FOR NEGLECTED TROPICAL DISEASES

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THE JOURNEY OF NTD DATA FROM LOCAL FRAGMENTED DATABASE SYSTEMS INTO STABLE AND SECURE HEALTH MANAGEMENT INFORMATION SYSTEMS

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CHAGAS DISEASE SCREENING OF MATERNAL DONORS IN PUBLICLY BANKED UMBILICAL CORD BLOOD IN NORTH CAROLINA, UNITED STATES 2007-2022

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TSETSE FLIES INFECTED WITH TRYPANOSOMES IN THREE ACTIVE HUMAN AFRICAN TRYPANOSOMIASIS FOCI OF THE REPUBLIC OF CONGO

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RESULTS FROM PATIENT INSIGHTS RESEARCH EXPLORING DISEASE AWARENESS, PATIENT JOURNEY, AND CURRENT MANAGEMENT OF VISCERAL LEISHMANIASIS IN BIHAR, INDIA

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SEROPREVALENCE AND RISK FACTORS OF TOXOPLASMA GONDII IN WOMEN OF REPRODUCTIVE AGE (15-44 YEARS) — NIGERIA, 2018

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CLINICAL IMPLICATION OF REGIONAL LEISHMANIA SPECIES DISTRIBUTION IN ECUADOR: A CROSS-SECTIONAL STUDY

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THE ASYMPTOMATIC DOG WITH VISCERAL LEISHMANIASIS: IS THIS THE "REAL BAD DOG"? A SYSTEMATIC REVIEW

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ADDRESSING AFRICAN SLEEPING SICKNESS TRANSMISSION THROUGH STREET THEATRE

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EPIDEMIOLOGY OF SPOTTED FEVER GROUP RICKETTSIA AND CHAGAS DISEASE INFECTION IN A RURAL COMMUNITY IN BOYACÁ, COLOMBIA

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MODELLING SLEEPING SICKNESS AT DIFFERENT SPATIAL SCALES: A HEALTH AREA ANALYSIS

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FROM THE PLAINS TO THE MOUNTAINS: A NEW FRONTIER FOR LEISHMANIASIS IN NORTH INDIA

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EPIDEMIOLOGICAL, SEROLOGICAL, AND ENTOMOLOGICAL ASPECTS OF VISCERAL LEISHMANIASIS (VL) IN SUSPECTED NEW VL FOCI IN BANGLADESH

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MODELING THE RELATIONSHIP BETWEEN PRECIPITATION AND TEMPERATURE ON THE INCIDENCE OF CUTANEOUS LEISHMANIASIS IN NORTHERN MOROCCO

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HAEMOGLOBIN DYNAMICS FOLLOWING TREATMENT OF VISCERAL LEISHMANIASIS: AN INDIVIDUAL PATIENT DATA META-ANALYSIS USING THE INFECTIOUS DISEASES DATA OBSERVATORY DATA PLATFORM

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SYSTEMATIC REVIEW OF CHAGAS DISEASE IN ENDEMIC COUNTRIES, 1980 - 2019.

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FIRST MOLECULAR DOCUMENTATION OF LEISHMANIA MAJOR IN THE PHLEBOTOMINE SAND FLY, AL AHSA, EASTERN REGION, SAUDI ARABIA

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One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

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THE FIRST EPIDEMIOLOGICAL INVESTIGATION ON CONTACTS WITH MYCOBACTERIUM BOVIS FROM A ZOO IN THE REPUBLIC OF KOREA, JULY 2021-SEPTEMBER 2022

Hye Young Lee, Yunhyung Kwon, Sang-Eun Lee, Jieun Kim
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ASSESSMENT OF THE ZOONOTIC TRANSMISSION POTENTIAL OF ASCARIS IN HUMAN AND PIGS AND ITS IMPLICATIONS FOR ASCARIASIS CONTROL IN MAKENENE IN THE CENTER REGION OF CAMEROON

Merveille Gaëlle Lekeufack Djitia, Estelle Mezajou Mewamba, Pythagore Soubgwi Fogue, Cyrille Nguemnang Kamdem, Arnol Auvaker Zebaze Tiofack, **Gustave Simo**
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DRIVING FORCE OF INDISCRIMINATE USAGE OF ANTIBIOTICS IN SMALL SCALE COMMERCIAL POULTRY FARMS IN BANGLADESH

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ASSESSING TRANSBOUNDARY ZOONOTIC DISEASE THREATS AT POINTS OF ENTRY BETWEEN IRAQ AND JORDAN: A ONE HEALTH APPROACH

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SNAKEBITE PREVALENCE AND RISK FACTORS IN A NOMADIC POPULATION IN KENYA: A COMMUNITY-BASED SURVEY

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USING A ONE HEALTH SYSTEMS ASSESSMENT TOOL TO STRENGTHEN TRANSBOUNDARY ZOONOTIC DISEASE DETECTION, SURVEILLANCE AND RESPONSE BETWEEN LIBYA AND TUNISIA

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TAILORING A ONE HEALTH COURSE FOR AN ESTABLISHED NON-ONE HEALTH GRADUATE PROGRAM IN BRAZIL

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RIFT VALLEY FEVER VIRUS AND GENOME STABILITY IN RAW MILK

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GENOMIC EPIDEMIOLOGY OF CAMPYLOBACTER JEJUNI AND CAMPYLOBACTER COLI ISOLATED FROM INDUSTRIAL AND HOUSEHOLD POULTRY IN IQUITOS, PERU

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FACTORS ASSOCIATED & PREVALENCE OF ABNORMALITIES OF VENTILATORY FUNCTION IN ATTÉCOUBÉ, ABIDJAN, CÔTE D'IVOIRE, JANUARY-FEBRUARY 2022

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LAND USE CHANGE DRIVES BAT ROOSTING ECOLOGY AND HUMAN-BAT FOOD COMPETITION ON CULTIVATED FOOD RESOURCES PROMOTES NIPAH VIRUS SPILLOVER TO HUMANS IN BANGLADESH

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Pneumonia, Respiratory Infections and Tuberculosis

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TUBERCULOSIS MORTALITY: A SCOPING REVIEW

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DISPROPORTIONATE COVID-19 DISEASE SEVERITY AND MORTALITY IN A DIVERSE POPULATION OF HOSPITALIZED PATIENTS

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PREDICTORS OF DISPOSITION STATUS IN HOSPITALIZED COVID-19 PATIENTS IN DIVERSE POPULATIONS: A CURRENT AND FUTURE MODEL

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CROSS SECTIONAL OBSERVATIONAL STUDY ON PERINATAL OUTCOMES AFTER SARS-COVID-2 VACCINATION DURING PREGNANCY IN TERTIARY CARE SETTING IN URBAN PUNE , INDIA

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7082

WEIGHTED FIDELITY OF DELIVERY OF AN INTERVENTION IN THE HEALTH FACILITY: A CASE OF TUBERCULOSIS SCREENING AMONG HIV CLIENTS IN SELECTED HOSPITALS IN GHANA

Solomon A. Narh-Bana[1], Mary Kawonga[2], Esnat D. Chirwa[3], Selase A. Ofori[1], Frank Bonsu[4], Latifat Ibisomi[2], Tobias F. Chirwa[2]
[1]DODOWA HEALTH RESEARCH CENTRE, Dodowa, Ghana, [2]University of the Witwatersrand, School of Public Health, Faculty of Health Sciences, Johannesburg, South Africa, [3]Gender & Health Research Unit, Medical Research Council, Johannesburg, South Africa, [4]National TB Control Programme, Accra, Ghana

7083

SURVEILLANCE OF INFLUENZA LIKE ILLNESS (ILI) AT THE US. MILITARY CAMP LEMONNIER, DJIBOUTI

Mayar Maged Said
US. Naval Medical Research Unit #3 (NAMRU-3), Cairo, Egypt

7084

SENSITIVITY PROFILE OF FUNGAL PATHOGENS RESPONSIBLE FOR LOWER RESPIRATORY TRACT INFECTIONS IN YAOUNDE

Claris Killa
The University of Yaounde 1, Yaounde, Cameroon

7085

TUBERCULOSIS IS A GOOD POINT OF ENTRY FOR THE SCREENING OF CARDIOVASCULAR EVENT RISK FACTORS IN A LOW-MIDDLE-INCOME COUNTRY: LESSON LEARNED FROM INTEGRATED HEALTHCARE IN GABON

Bayode Romeo Adegbite
Centre de Recherches Médicales de Lambaréné, lambarene, Gabon

7086

EFFECT OF POST PCV13 ON VACCINE TYPE INVASSIVE PNEUMOCOCCAL DISEASE AMONG CHILDREN IN RURAL GAMBIA

rasheed A. salaudeen[1], Ousman Barjo[2], Momodou Drammeh[2], wutor Baleng Mahama[2], Yekini A. Olatunji[2], isaac osei[2], Mohammad Ilias Hossain[2], Grant A. Mackenzie[2]
[1]Medical Research Council Unit, The Gambia, Basse, URR, Gambia, [2]Medical Research Council Unit, The Gambia, Basse Santa su, Gambia

7087

THE ADDED VALUE OF USING PULSE OXIMETER ROUTINELY INTO THE INTEGRATED MANAGEMENT OF CHILDHOOD ILLNESS GUIDELINES TO BETTER IDENTIFY & MANAGE SEVERE CASES AMONG CHILDREN UNDER-5 YEARS OLD IN WEST AFRICA, JUNE 2021 TO JUNE 2022

Gildas Boris HEDIBLE[1], Desire Neboua[2], Lucie Peters Bokol[1], Gildas Anago[2], Zineb ZAIR[1], Severin Lenaud[3], Honorat Agbeci[1], Abdoul Guaniyi Sawadogo[4], Désiré Kargougou[5], Bertrand Meda[6], Jacques Séraphin Kolié[7], Sandrine Busiere[8], Franck Lamontagne[9], Sarah Louart[10], Valery Ridde[11], Valériane Leroy[1]
[1]CERPOP UMR 1295 INSERM UT3, Toulouse, France, [2]ALIMA, Dakar, Senegal, [3]PACCI, Abidjan, Côte D'Ivoire, [4]Tdh, Ouagadougou, Burkina Faso, [5]ALIMA, Bamako, Mali, [6]SOLTHIS, Niamey, Niger, [7]ALIMA, Conakry, Guinea, [8]Tdh, Dakar, Senegal, [9]SOLTHIS, Paris, France, [10]ALIMA & University of Lille, CLERSE - Centre Lillois d'Études et de Recherches Sociologiques et Économiques, Dakar, Senegal, [11]IRD, Paris, France

7088

FINE-SCALE SPATIOTEMPORAL DYNAMICS OF SARS-COV-2 INTRODUCTION AND SPREAD IN NAIROBI COUNTY, KENYA

Edith Chepkorir[1], John Mwita[2], Solomon Langat[1], Silvanos Mukunzi[1], Limbaso Konongoi[1], Samwel Lifumo[1], Samoel Khamadi[1], George Githinji[2]
[1]Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, [2]Kenya Medical Research Institute (KEMRI)-Wellcome Trust Research Programme, Kilifi, Kenya

7089

SCALING RISK FOR A GLOBAL TUBERCULOSIS PROGRAM IN AN OIL AND GAS COMPANY

Susan Ngunjiri, Malick Diara, **Candace McAlester**, Tammy Pipes
ExxonMobil Corporation, Spring, TX, United States

7090

INVESTIGATION OF SUSPECTED PULMONARY TUBERCULOSIS CASES IN KATIALI IN THE DIANRA HEALTH DISTRICT, CÔTE D'IVOIRE, JUNE 2021

Pegnontaye Moussa Soro[1], Kouadio Felix Koffi[2], Wilnique Pierre[3], Joseph Blaise Otshudiandjeka[1], Issaka Tiembre[4], Vroh Joseph Beni Bi[4]
[1]FETP, Abidjan, Côte D'Ivoire, [2]INHP, Abidjan, Côte D'Ivoire, [3]AFENET, Abidjan, Côte D'Ivoire, [4]UFHB/INHP, Abidjan, Côte D'Ivoire

7091

PRE-CLINICAL VALIDATION STUDIES OF NOVEL POINT-OF-CARE RNA TEST FOR COVID-19 DIAGNOSIS AND UTILITY FOR SARS-COV-2 GENOMIC SURVEILLANCE IN GHANA

Charles Narh[1], Maame E. Acquah[1], Gloria Amegatcher[1], Deborah Tetteh[1], Ethel Debrah[1], Bridget Quist[1], Gideon Twieku[2], Sarmuel Armoo[2], Bill Hopper[3], Lydia Mosi[1], Jack Richards[4]
[1]West African Centre for Cell Biology of Infectious Pathogens (WACBIP), University of Ghana., Accra, Ghana, [2]Water Research Institute, Council for Scientific and Industrial Research, Accra, Ghana, [3]ZiP Diagnostics, Melbourne, Australia, [4]ZiP Diagnostics, Accra, Australia

7092

A CASE OF TUBERCULOSIS PERICARDITIS

Bethlehem Atoma[1], Kinfu Debele[2], Dawi Girma[2], Obse Deressa[3], Anteneh Zewde[1]
[1]University of Minnesota, Minneapolis, MN, United States, [2]Adama Hospital Medical Center, Adama, Ethiopia, [3]St Paul Hospital, Addis Ababa, Ethiopia

Schistosomiasis and Other Trematodes – Epidemiology and Control

7093

SCHISTOTRACK: A COMMUNITY-BASED, PROSPECTIVE COHORT IN RURAL UGANDA TO EXAMINE CAUSES OF PERIPORTAL FIBROSIS ASSOCIATED WITH INTESTINAL SCHISTOSOMIASIS

Goylette F. Chami
Big Data Institute, Nuffield Department of Population Health, University of Oxford, Oxford, United Kingdom

7094

NAVIGATING BARRIERS TO CREATING AWARENESS OF FEMALE GENITAL SCHISTOSOMIASIS IN GHANA-CASE STUDY IN THE CENTRAL REGION OF GHANA

Ruth Esi Fosuah Allotey
Korle Bu Teaching Hospital, Accra, Ghana

7095

THE MEASURING OF TREATMENT COVERAGE AS COMPARED TO ADMINISTRATIVE COVERAGE FOR SCHISTOSOMIASIS WITH PREVENTIVE CHEMOTHERAPY IN BONG, LOFA, AND NIMBA COUNTIES IN 2018 IN LIBERIA

Anthony Kerkula Bettee
Ministry of Health, Monrovia, Liberia

7096

MAPPING THE TRANSMISSION DYNAMICS OF SCHISTOSOMIASIS: INSIGHTS FOR CONTROL AND ELIMINATION STRATEGIES

Obiageli Josephine Nebe[1], **Juliana A. Amanyi Enegela**[2], Jacob Solomon[1], Rita Omohode Urude[1], Rinpan Ishaya[3], Girija Sankar[2], Bosede Eunice Ogundipe[4], Abdurrahman Sadiq Tsimiri[4], Abubakar Abba[4], Joseph Kumbur[5], Bright Ekweremadu[5], Chistopher Ogoshi[3], Moses Aderogba[6], Louise Makau-Barasa[7]
[1]Federal Ministry of Health, Abuja, Nigeria, [2]CBM Christoffel Blindenmission CBM e.V, Cambridge, United Kingdom, [3]Health and Development Support Programme (HANDS), Jos, Nigeria, Jos, Nigeria, [4]Department of Public Health, Federal Capital Territory Administration, Abuja, Abuja, Nigeria, [5]CBM Christoffel Blindenmission CBM e.V, Abuja, Nigeria, [6]The END Fund, Abuja, Nigeria, [7]The END Fund, New York, NY, United States

7097

COMPARATIVE GENOMIC EVOLUTIONARY ANALYSIS OF BIOMPHALARIA SUDANICA, A NEGLECTED INTERMEDIATE HOST VECTOR OF SCHISTOSOMIASIS

Tom Pennance[1], Javier Calvelo[2], Jacob A. Tennessen[3], Stephanie R. Bollmann[4], Michael S. Blouin[4], Johannie M. Spaan[1], George Ogara[5], Fredrick Rawago[5], Kennedy Andiego[5], Boaz Mulonga[5], Meredith Odhiambo[5], Eric S. Loker[6], Andrés Iriarte[2], Maurice Odiere[5], Michelle L. Steinauer[1]
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(ACMCIP Abstract)

7098

RE-ASSESSING THERMAL SENSITIVITY OF SCHISTOSOMIASIS TRANSMISSION RATES IN THE ERA OF CLIMATE CHANGE: EVIDENCE OF A HIGHER THERMAL OPTIMUM THAN PREVIOUSLY PREDICTED

Giulio A. De Leo[1], Ibrahim H. Aslan[1], Andrew J. Chamberlin[1], Kaitlyn Mitchell[1], Alyson L. Singleton[2], Caroline K. Glidden[3], Erin A. Mordecai[4], Roberta Lima Caldeira[5], Miguel AMV Monteiro[6], Vivian Silva[6], Adriano Pinter[7], Roseli Tuan[8], Raquel GS Palasio[9], Eliezer K. N'Goran[10], Nana Rose Diakite'[10], Mamadou Ouattara[10], Fiona Allan[11], Andrew S. Brierley[11], Dave Little[12], Rachel Norman[12], Reed Ozretich[12], Ping Liu[13], Kamazima Lwiza[13], Thiago A. Pereira[14], Susanne H. Sokolow[1], Chelsea C. Wood[15]
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USING WHO SCHISTOSOMIASIS COMMUNITY DATA COLLECTION FORM TO IDENTIFY FACTORS CONTRIBUTING TO HIGH PREVALENCE IN MALI

Mahamadou Traore[1], **Modibo Keita**[2], Fatoumata Koundou Maiga[1], Boubacar Guindo[2], Mama Nielé Doumbia[2], Lamine Diarra[2], Salif Seriba Doumbia[3], Cheick Amadou Tidiane Traore[1], Yacouba Sangaré[1], Alex Karl Brown[2], Benoit Dembele[4], Yaya Ibrahim Coulibaly[3], Anna Phillips[5], Cleo Stern[6], Steven D. Reid[6], Yaobi Zhang[6], Angela Weaver[6]
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7100

SCHISTOSOMA OCCUPATIONAL EXPOSURE RISK IN RICE FIELDS IN THE SENEGAL RIVER BASIN

Emily Selland[1], Alexandra Sack[1], Sidy Bakhoum[1], Meghan Forstchen[1], Nicolas Jouanard[2], Momy Seck[2], Jason Rohr[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Station d'Innovation Aquacole, Saint-Louis, Senegal

7101

BARRIERS TO FEMALE GENITAL SCHISTOSOMIASIS CARE MANAGEMENT IN NIGERIA; COMMUNITY MEMBERS AND HEALTH WORKERS PERSPECTIVES

Omosefe Osinoiki[1], Martins Imhansoloeva[1], Oluwole Akinola[1], Solomon Jacob[2], Richard Selby[3], Obiageli Nebe[2]
[1]Sightsavers, Abuja, Nigeria, [2]Federal Ministry of Health, Abuja, Nigeria, [3]Sightsavers, West Sussex, United Kingdom

7102

A SURFING PARASITE: HOW SCHISTOSOME CERCARIAE COUPLE TO INTERFACIAL BOUNDARIES TO EXTEND DISPERSION AND DISEASE SPREAD

Melanie Hannebelle[1], Ian Ho[1], Alassane Ndiaye[2], Manu Prakash[1]
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Water, Sanitation, Hygiene and Environmental Health

7103

INVESTIGATING THE PRESENCE OF SALMONELLA SPP. IN LOCALLY MADE CHEESE IN MONTERÍA, CORDOBA, COLOMBIA IN 2021

Linda M. Chams[1], Jorge D. Arrieta[2], Carlos J. Castro[1]
[1]Universidad de Córdoba, Monteria, Colombia, [2]Universidad de Córdoba, Barranquilla, Colombia

7104

IMPACT OF THE WASH IN SCHOOLS FOR EVERYONE (WISE) PROGRAMME ON THE HEALTH AND SCHOOL ATTENDANCE OF KINDERGARTENERS IN ADDIS ABABA, ETHIOPIA: A CLUSTER-RANDOMISED CONTROLLED TRIAL

Sarah Bick[1], Charles Opondo[1], Baptiste Leurent[2], Oliver Cumming[1], Alem Ezezew[3], Elizabeth Allen[1], Robert Dreibelbis[1]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]University College London, London, United Kingdom, [3]Holster International Research and Development Consultancy, Addis Ababa, Ethiopia

7105

ASSESSMENT OF KNOWLEDGE ATTITUDES AND PRACTICE KAP OF HAND WASHING HYGIENE AND THE ROLE OF PREVENTION PROJECT OF INFECTION CONTROL, GEZIRA STATE, SUDAN 2022

Dania Akasha[1], Mazin Osman[2]
[1]University of Gezira , Faculty of medicine, Wad medani, Sudan, [2]King Fahad Hospital albaha, Al baha, Saudi Arabia

7106

USE OF ENRICHMENT MNGS METHOD TO IDENTIFY RESPIRATORY PATHOGENS IN WASTEWATER FROM TREATMENT PLANT LOCATION IN SALVADOR, BAHIA, BRAZIL

Luciane Amorim Santos[1], Laise Eduarda Paixão de Moraes[1], Pablo Alessandro Barbosa Viana[2], Pedro Milet Meirelles[3], Tiago Gräf[4], Pablo Ivan Pereira Ramos[1], Manoel Barral-Netto,[1], Ricardo Khouri[1]
[1]Instituto Gonçalo Moniz, Fiocruz, Salvador, Brazil, [2]Instituto de Biologia da Universidade Federal da Bahia, Salvador, Brazil, [3]IInstituto de Biologia da Universidade Federal da Bahia, Salvador, Brazil, [4]Instituto Carlos Chagas, Fiocruz, Curitiba, Brazil

7107

CHOLERA OUTBREAK IN THE MIFI HEALTH DISTRICT OF CAMEROON, A CASE-CONTROL STUDY, JULY 2022

Ncham Evaristus Ngong[1], Flore Estelle Balana Esiene[1], Patricia Mendjime[1], Etoundi Evouna Antoine De Padoue[2], Evouna Armel Mbarga[1]
[1]Cameroon Field Epidemiology Training Program, Yaounde, Cameroon, [2]National Tuberculosis Control Program, Yaounde, Cameroon

7108

CONTROLLED BEFORE-AND-AFTER STUDY OF A MULTI-MODAL HAND HYGIENE INTERVENTION IN HEALTHCARE FACILITIES IN CAMBODIA

Elisabeth Tadiri[1], Leang Supheap[2], Naisim Sum[3], Senghort Ret[3], Channara Thea[3], Bernice Sarpong[4], **Robert Dreibelbis**[1]
[1]LSHTM, London, United Kingdom, [2]NIPH, Phnom Penh, Cambodia, [3]WaterAid Cambodia, Phnom Penh, Cambodia, [4]WaterAid Australia, Melbourne, Australia

7109

FACTORS INFLUENCING HOUSEHOLD WASH PRACTICES

Andrea L. Smith, Alessandra Bazzano, Emily W. Johansson, Udochisom Anaba, Paul L. Hutchinson
Tulane University, New Orleans, LA, United States

7110

BEHAVIORAL DETERMINANTS OF ARSENIC-SAFE WATER USE AMONG GREAT PLAINS INDIAN NATION PRIVATE WELL USERS: RESULTS FROM THE COMMUNITY-LED STRONG HEART WATER STUDY PROGRAM

Kelly Endres[1], Tracy Zacher[2], Francine Richards[2], Lisa Bear Robe[2], David Harvey[3], Lyle G. Best[2], Reno Red Cloud[4], Annabelle Black Bear[5], Steve Ristau[6], Dean Aurand[6], Leslie Skinner[5], Christa Cuny[7], Marie Gross[7], Elizabeth D. Thomas[1], Ana Rule[1], Kellogg Schwab[1], Lawrence H. Moulton[1], Marcia O'Leary[5], Ana Navas-Acien[8], Christine Marie George[1]
[1]Johns Hopkins Bloomberg School of Public Hlth, Maryland, MD, United States, [2]Missouri Breaks Industries Research Inc., Eagle Butte, SD, United States, [3]Indian Health Service, Rockville, MD, United States, [4]Environmental Resource Department, Oglala Sioux Tribe, Rapid City, SD, United States, [5]Missouri Breaks Industries Research, Inc, Eagle Butte, SD, United States, [6]Mid Continent Testing Labs, Inc, Rapid City, SD, United States, [7]Missouri Breaks Industries Research, Inc, Eagle Butte, SD, United States, [8]Columbia University Mailman School of Public Health, New York, NY, United States

7111

MICROPLASTICS EXPOSURE AND THEIR ASSOCIATION WITH DIARRHOEA, GROWTH, AND DEVELOPMENT OF CHILDREN IN MALI

Cheick Sidya Sidibé[1], Youssouf Diarra[1], Modibo Telly[1], Alice Phillips[2], Lee Haverson[2], Uwe Schneidewindt[2], Liam Kelleher[2], Evans a. Asamane[3], Stefan Krause[2], Neil Thomas[2], Iseult Lynch[2], Ousmane Koita[1], Ousmane Toure[1], Semira Manaseki Holland[3]
[1]University of sciences, Techniques and Technologies of Bamako, Bamako, Mali, [2]School of Geography, Earth and Environmental Sciences, University of Birmingham, Birmingham, United Kingdom, [3]Institute of Applied Health Research, University of Birmingham, Birmingham, United Kingdom

7112

BEHAVIORAL AND ENVIRONMENTAL FACTORS ASSOCIATED WITH SELF-REPORTED DIARRHEA AND ENTERIC PATHOGEN DETECTION IN INFANTS DISCOVERED BY COMPARING HOUSEHOLD CLUSTERS WITH DISTINCT LIVING CONDITIONS

Kelly K. Baker[1], Daniel Sewell[1], Jane Mumma[2], Oliver Cumming[3], Robert Dreibelbis[3], Sheillah Simiyu[4]
[1]University of Iowa, Iowa City, IA, United States, [2]Great Lakes University of Kisumu, Kisumu, Kenya, [3]London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]African Population and Health Research Center, Nairobi, Kenya

Clinical Group (ACCTMTH) Past Presidents Meeting

Michigan 1A - Concourse Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m. U.S. Central Time Zone

Symposium 117

LIVE STREAMING

Demystifying NIH Grants for Trainees

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m. U.S. Central Time Zone

Brief presentation then Q and A with Dr. LeShawndra Price, PhD, Director of the Office of Research Training and Special Programs, NIAID, about trainee opportunities from pre-doc to transition to faculty, including efforts to diversify the pool of NIH-funded scientists through programs like MOSAIC and PACE.

CHAIR
Christine Petersen
University of Iowa, Iowa City, IA, United States

11:15 a.m.
INTRODUCTION

11:20 a.m.
NIAID OPPORTUNITIES
LeShawndra N. Price
National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

Meet the Professors Session 118

Meet the Professors Session C – Persistent Fevers

Grand Hall K - Ballroom Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m. U.S. Central Time Zone

Meet the Professors sessions are valuable learning experiences for trainees and practicing clinicians to hear about clinical reasoning from leaders in the field. Persistent fever represents an important clinical syn-drome encountered in tropical medicine. This Meet the Professors session will feature cases from a clinician practicing in India (Dr. Tapadar), and a clinician practicing travel/tropical medicine in the USA (Dr. Gunaratne).

CHAIR
Daniel Leung
University of Utah, Salt Lake City, UT, United States

11:15 a.m.
PRESENTATION #1
Jaya Chakravarty Tapadar
Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

11:35 a.m.
PRESENTATION #2
Shauna Gunaratne
Columbia University Irving Medical Center, Bronx, NY, United States

Late-Breaker Abstract Session 119

Late-Breakers in Virology

Grand Hall L - Ballroom Level (East Tower)
Saturday, October 21, 11:15 a.m. - 12:30 p.m. U.S. Central Time Zone

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Meeting App or Late-Breaker Abstract Presentation Schedule booklet (available online) for the presentation schedule.

CHAIR
Noreen A. Hynes
Johns Hopkins School of Medicine, Baltimore, MD, United States

Wei-Kung Wang
John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI, United States

Poster Session C Viewing

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 3 p.m.

Scientific Session 120

Global Health: Maternal, Newborn and Child Health and Nutrition

Grand Ballroom A - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR
Miguel Reina Ortiz
Boise State University, ID, United States

Mary Iwaret Otiti
Kenya Medical Research Institute- Centre for Global Health Research (KEMRI-CGHR), Kisumu, Kenya

12:45 p.m. 7113

EARLY LIFE DIETARY SUPPLEMENTATION OF PROBIOTICS AND SYNBIOTICS IMPROVES GUT HEALTH AND REDUCES SYSTEMIC INFLAMMATION AMONG INFANTS IN WESTERN KENYA: AN OPEN-LABEL RANDOMIZED CONTROLLED TRIAL

Mary Iwaret Otiti[1], Simon Kariuki[1], Micah J. June[1], Alloys O. K'Oloo[1], David O. Otieno[1], Kephas O. Otieno[1], James Dodd[2], Duolao Wang[2], Lindsay J. Hall[3], Feiko ter Kuile[2], Stephen J. Allen[2]
[1]*Kenya Medical Research Institute- Centre for Global Health Research (KEMRI-CGHR), Kisumu, Kenya,* [2]*Liverpool School of Tropical Medicine, Liverpool, United Kingdom,* [3]*Quadrum Institute of Bioscience, Norwich, United Kingdom*

Saturday October 21

1 p.m. 7114

TARGETING INFLAMMATION IN CHILDHOOD MALNUTRITION: A RANDOMIZED CONTROLLED CLINICAL TRIAL OF ADDITION OF FISH OIL TO THE STANDARD OF CARE NUTRITIONAL INTERVENTION

Mark Muchina[1], Mary Inziani[1], Beatrice Olack[1], Mary Muriu[1], Finnley Osuna[1], Chris L. Melby[2], Margaret Mbuchi[1], Thaddeus Egondi[1], Linet Ouma[1], Rukia Kibaya[1], Adam Chicco[3], Asma Omar[3], Peter C. Melby[4], Phelgona Otieno[1]

[1]Kenya Medical Research Institute, Nairobi, Kenya, [2]Colorado state University, Ft. Collins, CO, United States, [3]Colorado State University, Ft. Collins, CO, United States, [4]University of Texas Medical Branch, Galveston, TX, United States

1:15 p.m. 7115

CHILD STUNTING FROM BIRTH TO AGE TWO: A LONGITUDINAL COHORT STUDY IN AMHARA, ETHIOPIA

Frederick G. B. Goddard[1], **Bezawit M. Hunegnaw**[2], Jonathan Luu[3], Sebastien Haneuse[3], Mesfin Zeleke[4], Yahya Mohammed[4], Chalachew Bekele[4], Delayehu Bekele[5], Grace J. Chan[6]

[1]Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Department of Pediatrics and Child Health, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [3]Department of Biostatistics, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [4]BIRHAN HDSS, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [5]Department of Obstetrics and Gynecology, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [6]Division of Medicine Critical Care, Boston Children's Hospital, Harvard Medical School; Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States

1:30 p.m. 7116

MICRONUTRIENT STATUS DURING PREGNANCY IS ASSOCIATED WITH YOUNG CHILD TELOMERE LENGTH

Farheen Jamshed[1], Shahjahan Ali[2], Sophia T. Tan[3], Andrew N. Mertens[4], Jue Lin[5], Zachary Butzin-Dozier[4], Md. Ziaur Rahman[2], Rubhana Raqib[2], Douglas A. Granger[6], Anjan K. Roy[2], Abul K. Shoab[2], Firdaus S. Dhabhar[7], Syeda L. Famida[2], Md. Saheen Hossen[2], Palash Mutsuddi[2], Salma Akther[2], Mahbubur Rahman[2], Juergen Erhardt[8], Idan Shalev[9], John M. Colford Jr.[4], Stephen P. Luby[10], Lia C. H. Fernald[11], Christine P. Stewart[12], Audrie Lin[9]

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1:45 p.m. 7117

MICRONUTRIENT STATUS DURING PREGNANCY IS ASSOCIATED WITH CHILD IMMUNE STATUS IN RURAL BANGLADESH

Da Kyung Jung[1], Sophia T. Tan[2], Caitlin Hemlock[1], Andrew N. Mertens[1], Christine P. Stewart[3], Md. Ziaur Rahman[4], Shahjahan Ali[4], Rubhana Raqib[4], Jessica A. Grembi[5], Mohammed Rabiul Karim[4], Sunny Shahriar[4], Anjan Kumar Roy[4], Sarah Bakir[1], Abul K. Shoab[4], Syeda L. Famida[4], Md. Saheen Hossen[4], Palash Mutsuddi[6], Salma Akther[4], Mahbubur Rahman[4], Leanne Unicomb[4], Lisa Hester[7], Douglas A. Granger[8], Juergen Erhardt[9], Ruchira Tabassum Naved[4], Md. Mahfuz Al Mamun[4], Kausar Parvin[4], John M. Colford Jr.[1], Lia C. H. Fernald[1], Stephen P. Luby[5], Firdaus S. Dhabhar[10], Audrie Lin[11]

[1]University of California, Berkeley, Berkeley, CA, United States, [2]University of California, San Francisco, San Francisco, CA, United States, [3]University of California, Davis, Davis, CA, United States, [4]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [5]Stanford University, Palo Alto, CA, United States, [6]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, CA, United States, [7]University of Maryland, Baltimore, MD, United States, [8]University of California, Irvine, Irvine, CA, United States, [9]VitMin Lab, Willstätt, Germany, [10]University of Miami, Miami, FL, United States, [11]Pennsylvania State University, University Park, PA, United States

2 p.m. 7119

SEROPREVALENCE FOR NOVEL ORAL POLIOVIRUS VACCINE TYPE 2 (NOPV2) FOLLOWING OUTBREAK RESPONSE IN LIBERIA: FINDINGS, IMPLICATIONS & FUTURE DIRECTIONS

Gloria M. Ross[1], Stephen B. Kennedy[1], Mark WS Kieh[1], Moses BF Massaquoi[1], Hannah Berrian[2], Grace R. Macklin[3], Ondrej Mach[3]

[1]West African Consortium for Clinical Research on Epidemic Pathogens (WAC-CREP), Monrovia, Liberia, [2]UL-PIRE Africa Center, University of Liberia, Monrovia, Liberia, [3]Polio Department, World Health Organization (WHO), Geneva, Switzerland

Scientific Session 121

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Drug Resistance, Genomics and Biomarkers

Grand Ballroom B - Ballroom Level (East Tower)

Supported with funding from the Burroughs Wellcome Fund

Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR

Selina Bopp
Harvard T.H. Chan School of Public Health, Boston, MA, United States

William J. Sears
NIAID, Bethesda, MD, United States

12:45 p.m. 7120

GENOMIC SURVEILLANCE OF TRICLABENDAZOLE RESISTANCE IN FASCIOLA HEPATICA

Young-Jun Choi[1], Bruce A. Rosa[1], Martha V. Fernandez-Baca[2], Rodrigo A. Ore[2], John Martin[1], Miguel M. Cabada[3], Makedonka Mitreva[1]

[1]Washington University School of Medicine, St. Louis, MO, United States, [2]The Instituto de Medicina Tropical Alexander von Humboldt, Cusco, Peru, [3]University of Texas Medical Branch John Sealy School of Medicine, Galveston, TX, United States

1 p.m. 7121

NATURAL VARIATION IN A PARASITIC FLATWORM ION CHANNEL UNDERPINS DIFFERENTIAL SENSITIVITY OF PARASITES TO PRAZIQUANTEL

Claudia M. Rohr, Daniel J. Sprague, Sang-Kyu Park, Nicholas J. Malcolm, Jonathan S. Marchant
Medical College of Wisconsin, Milwaukee, WI, United States

1:15 p.m. 7122

CHARACTERIZATION OF AN ENDOGENOUS ION CHANNEL ACTIVATED BY PRAZIQUANTEL WITHIN A LIVE, ADULT SCHISTOSOME

Evgeny G. Chulkov, Jonathan S. Marchant
Medical College of Wisconsin, Milwaukee, WI, United States

1:30 p.m. 7123

CHROMOSOME LEVEL ASSEMBLY OF BAYLISASCARIS PROCYONIS GENOME

William Sears[1], Sriveny Dangoudoubiyam[2], Sasisekhar Bennuru[1], Pedro Gazzinelli-Guimaraes[1], Myndi Holbrook[3], Craig Martens[3], Kent Barbian[3], Kimmo Virteneva[3], Shelise Brooks[4], Gerard Bouffard[1], Thomas Nutman[1]
[1]NIAID, Bethesda, MD, United States, [2]Purdue, West Lafayette, IN, United States, [3]NIAID, Hamilton, MT, United States, [4]NISC, Rockville, MD, United States

1:45 p.m. 7124

A UNIVERSAL METABARCODING PIPELINE AND HOST SIGNAL REDUCTION METHOD FOR CHARACTERIZATION OF VERTEBRATE SYMBIONT/PARASITE ASSEMBLAGES

Leah Ann Owens[1], Sagan Friant[2], Bruno Martorelli Di Genova[3], Laura J. Knoll[1], Monica Contreras[4], Oscar Noya[5], Maria G. Dominguez-Bello[6], Tony L. Goldberg[1]
[1]University of Wisconsin-Madison, Madison, WI, United States, [2]The Pennsylvania State University, University Park, PA, United States, [3]The University of Vermont, Burlington, VT, United States, [4]Venezuelan Institute of Scientific Research, Caracas, Bolivarian Republic of Venezuela, [5]Universidad Central de Venezuela, Caracas, Bolivarian Republic of Venezuela, [6]Rutgers University, New Brunswick, NJ, United States

2 p.m. 7125

THE PROGNOSTIC POTENTIAL OF BIOMARKERS ASSOCIATED WITH FILARIAL LYMPHEDEMA DEVELOPMENT

Derrick Adu Mensah[1], Linda Batsa Debrah[1], Vera Serwaa Opoku[1], Jubin Osei-Mensah[2], Charles Gyasi[1], Patricia Jebett Korir[3], Manuel Ritter[4], Tomabu Adjobiney[4], Ute Klarmann-Schulz[3], Achim Hoerauf[3], Alexander Yaw Debrah[5]
[1]Department of Clinical Microbiology, Kwame Nkrumah University of Science and Technology, KUMASI, Ghana, [2]Department of Veterinary Pathobiology, Kwame Nkrumah University of Science and Technology, KUMASI, Ghana, [3]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Germany/German Center for Infection Research (DZIF), partner site Bonn-Cologne, Germany, Bonn, Germany, [4]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Germany, Bonn, Germany, [5]Department of Medical Diagnostics, Kwame Nkrumah University of Science and Technology, KUMASI, Ghana

2:15 p.m. 7126

MULTIANTIGEN PRINT IMMUNOASSAY (MAPIA): TOWARDS A GLOBALLY ACCESSIBLE SEROLOGICAL DIAGNOSIS OF NEUROCYSTICERCOSIS

Luz M. Toribio[1], Carolina Guzman[1], Sassan Noazin[2], Herbert Saavedra[3], Javier Bustos[1], Sukwan Handali[4], Hector H. Garcia[1]
[1]Center for Global Health, Universidad Cayetano Heredia, Lima, Peru, [2]Department of International Health, Bloomberg School of Public Health. Johns Hopkins University, Baltimore, MD, United States, [3]Instituto Nacional de Ciencias Neurologicas, Lima, Peru, [4]Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

ASTMH Annual Business Meeting Session 122

Grand Hall J - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 1:45 p.m. U.S. Central Time Zone

Open to all attendees! Come learn about the work ASTMH is doing on your behalf.

CHAIR
Kent E. Kester
IAVI, New York, NY, United States

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

Symposium 123 LIVE STREAMING

To Infinity and Beyond: The Tale of Eradication, Why it Matters and the Lessons Learned from Smallpox, Rinderpest, Polio and Guinea Worm

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

To date, the World Health Organization (WHO) has declared only two diseases officially eradicated: Smallpox caused by variola virus (VARV) and Rinderpest caused by the rinderpest virus (RPV). Three other diseases are targeted for eradication: polio caused by wild polio virus (WPV), Guinea worm caused by the parasite Dracunculiasis medinensis, and Yaws caused by the bacteria Treponema pallidum pertenue, per World Health Assembly resolutions. The Global Polio Eradication program has successfully eradicated WPV 2 and 3, with efforts to eradicate WPV 1 still underway. The global Guinea worm Eradication program has certified 200 countries free of Guinea worm, with 5 endemic and 1 pre-certification country remaining. Yaws is currently endemic in at least 9 countries. Neglected tropical diseases (NTDs) are a group of 20 diseases that impact more than 1 billion people worldwide, predominantly in tropical and impoverished areas. They cause devastating health, social and economic consequences. Strategies to address the burden of NTDs include control, elimination and eradication measures and are implemented through local, regional and national active and/or passive surveillance systems. Disease eradication is often considered the holy grail for addressing disease, as eradication provides global benefits through improved health outcomes and financial savings in perpetuity. However, tension persists between the investment and prioritization of vertical structures and the desire for integration. Integrating disease control and elimination programs into existing health systems, when feasible may reduce costs, but can sacrifice attention to detail and the speed of progress. Past and ongoing eradication programs have demonstrated that a narrow focus on diseases can accelerate the achievement of global health goals and strengthen health systems. Drawing on the successful campaign to eradicate smallpox and rinderpest, and ongoing efforts to eradicate Polio and Guinea worm disease, this symposium will highlight the approaches taken to eradicate Smallpox and Rinderpest, with discourse describing the contribution of eradication and holistic approaches (e.g., One Health) to disease eradication. Ongoing efforts to eradicate Guinea worm and Polio and lessons learned will be described, including

their contributions to health system strengthening and the reduction of global burden of NTDs. Finally, symposium panelists will discuss country-level perspectives on eradication in insecure settings and contributions to health system strengthening to inform future disease eradication efforts.

CHAIR

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

Sharon L. Roy
Centers for Disease Control and Prevention, Atlanta, GA, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
DISEASE ERADICATION: FROM MOONSHOT TO REALITY AND THE RESIDUAL BENEFITS FOR HUMANKIND

Donald R. Hopkins
The Carter Center, Atlanta, GA, United States

1:10 p.m.
FROM SMALLPOX TO POLIO: LESSONS LEARNED AND WHY IT MATTERS

Walter Orenstein
Emory University - Emory Vaccine Center, Atlanta, GA, United States

1:25 p.m.
FREEDOM FROM RINDERPEST: HOW TO BUILD A GLOBAL COMMUNITY FOR A GLOBAL GOOD

David M. Morens
National Institute of Allergy and Infectious Diseases (NIAID)/National Institutes of Health, Bethesda, MD, United States

1:40 p.m.
WHAT DISEASE ERADICATION MEANS IN ETHIOPIA

Lia Tadesse
Ministry of Health, Federal Democratic Republic of Ethiopia, Addis Ababa, Ethiopia

1:55 p.m.
MODERATOR, PANEL DISCUSSION

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

Symposium 124

Applications of Novel Functional Genomic Approaches in *Plasmodium falciparum* to Elucidate Antimalarial Action and Genetic Determinants of Drug Resistance and Host Red Blood Cell Invasion

Grand Hall K - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

This symposium aims to showcase the application of novel and cutting-edge genetic, genomic and proteomic technologies to elucidate the action of antimalarial compounds, identify resistance markers, and understand the mechanisms of host cell invasion in human malaria *Plasmodium falciparum* parasites. The symposium commences with a presentation on thermal profiling proteomics (TPP) techniques to identify drug targets in the asexual stage of *Plasmodium* parasites using drug treatments on intact cells and lysates. The speaker will present their latest results of the TPP approach on defining protein targets to artemisinin and a variety of antimalarial compounds. The second presentation will highlight the use of functional screens on a high-coverage genome library to identify candidate determinants of resistance to antimalarial drugs such as chloroquine and mefloquine. The third speaker will present their latest findings on the identification and validation of new genetic markers of resistance to antimalarial drugs including piperaquine, artemisinin, chloroquine and quinine, as well as to pre-clinical compounds by leveraging *P. falciparum* genetic crosses performed in a humanized mouse model. Our fourth speaker will present data combining genomic epidemiological analyses with *P. falciparum* genetic cross studies to investigate the role of pfaat1 in the evolution and selection of pfcrt alleles and its impact on chloroquine resistance. Our final speaker will demonstrate the application of CRISPR/Cas9-based screens and genetic crosses to study the key determinants in invasion-related processes of asexual blood stage parasites, which can serve as useful targets for drug and vaccine development.

CHAIR

David A. Fidock
Columbia University Irving Medical Center, New York, NY, United States

Sachel Mok
Columbia University Irving Medical Center, New York, NY, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
DECIPHERING ANTIMALARIAL DRUG MODES OF ACTION BY THERMAL PROFILING PROTEOMICS

Zbynek Bozdech
Nanyang Technological University, Singapore, Singapore

1:15 p.m.
GENOME-WIDE FUNCTIONAL SCREENING OF DRUG RESISTANCE GENES IN *PLASMODIUM FALCIPARUM* USING AN ARTIFICIAL CHROMOSOME SYSTEM

Shiroh Iwanaga
Osaka University, Osaka, Japan

1:35 p.m.
ELUCIDATING THE GENETIC DETERMINANTS OF ANTIMALARIAL DRUG RESISTANCE USING *PLASMODIUM FALCIPARUM* GENETIC CROSSES IN A HUMANIZED MOUSE MODEL

Sachel Mok
Columbia University Irving Medical Center, New York, NY, United States

1:55 p.m.
THE AMINO ACID TRANSPORTER PFAAT1 MODULATES CHLOROQUINE RESISTANCE AND FITNESS IN MALARIA PARASITES

Xue Li
Texas Biomedical Research Institute, San Antonio, TX, United States

2:15 p.m.

FORWARD GENETIC SCREENS TO IDENTIFY ESSENTIAL DETERMINANTS OF RED BLOOD CELL INVASION BY MALARIA PARASITES

Manoj Duraisingh
Harvard School of Public Health, Boston, MA, United States

Scientific Session 125

Nematodes

Grand Hall L - Ballroom Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR
Ayman Elbadry
Cairo University Kasr Al-Ainy Faculty of Medicine, Cairo, Egypt

Jill Weatherhead
National School of Tropical Medicine Baylor College of Medicine, Houston, TX, United States

12:45 p.m. 7127

EPIDEMIOLOGY OF HOOKWORM (NECATOR AMERICANUS) IN BEPOSO, GHANA: APPLICATION OF MOLECULAR AND SEROLOGIC METHODS TO DEFINE THE PREVALENCE OF INFECTION

Savanna Randi[1], Irene O. Owusu Donkor[2], Jeffrey Sumboh[2], Dickson Osabutay[2], Rahmat bin Yusuf[2], Francis Appiah-Twum[2], Amanda Lamptey[2], Christina Paraggio[3], Lisa M. Harrison[1], Debbie Humphries[1], Michael D. Wilson[2], Michael Cappello[1]
[1]Yale School of Public Health, New Haven, CT, United States, [2]University of Ghana, Accra, Ghana, [3]Yale School of Medicine, New Haven, CT, United States

1 p.m. 7128

BIOMETRIC DATA CAPTURE DURING SOIL-TRANSMITTED HELMINTHS AND SCHISTOSOMIASIS MASS DRUG ADMINISTRATION IN A LARGE-SCALE GESHIYARO PROJECT

Ewnetu Firdawek Liyew[1], Melkie Chernet Leikun[1], Rosie Maddren[2], Roy Anderson[2]
[1]Ethiopian Public Health Institute, Addis Ababa, Ethiopia, [2]Imperial College, London, London, United Kingdom

1:15 p.m. 7129

RAPID SPREAD OF TRICHURIS TRICHIURA INFECTION FOLLOWING TREATMENT AMONG POPULATION LIVING IN RURAL AREAS OF GABON, CENTRAL AFRICA

Jean Claude Dejon Agobé[1], Christian Chassem Lapue[1], Jean Ronald Edoa[1], Jeannot Fréjus Zinsou[1], Yabo Josiane Honkpéhèdji[1], Romeo Bayodé Adegbitè[1], Stravensky Térence Boussougou-Sambe[1], Tamirat Gebru Woldearegai[2], Benjamin Mordmüller[3], Ayôla Akim Adegnika[1]
[1]Centre de Recherches Médicales de Lambaréné (CERMEL), Lambaréné, Gabon, [2]Institut für Tropenmedizin, Universitätsklinikum Tübingen, Tübingen, Germany, [3]Department of Medical Microbiology, Radboud University Medical Center, Nijmegen, Netherlands

1:30 p.m. 7130

NATURAL AND VACCINE-MEDIATED IMMUNITY TO NIPPOSTRONGYLUS BRASILIENSIS

Neima Briggs, Aurobind Vidyarthi, Joseph Craft
Yale University, New Haven, CT, United States

1:45 p.m. 7131

WASTEWATER-BASED EPIDEMIOLOGY FOR SOIL-TRANSMITTED HELMINTH SURVEILLANCE IN BENIN AND INDIA

Heather K. Amato[1], Edoux JE Siko[2], Malathi Manuel[3], Zayina Zondervenni[3], Michael Harris[1], Christopher LeBoa[4], Parfait Houngbegnon[2], Rohan M. Ramesh[3], Gideon J. Israel[3], Venkateshprabhu Janagaraj[3], Nils Pilotte[5], Steve Williams[6], Adrian JF Luty[7], Moudachirou Ibikounlé[2], Sitara SR Ajjampur[3], Amy J. Pickering[1]
[1]Department of Civil and Environmental Engineering, University of California, Berkeley, CA, United States, [2]Institut de Recherche Clinique du Bénin, Abomey-Calavi, Benin, [3]The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India, [4]Division of Environmental Health Sciences, Berkeley School of Public Health, University of California, Berkeley, CA, United States, [5]Department of Biological Sciences, Quinnipiac University, Hamden, CT, United States, [6]Department of Biological Sciences, Smith College, Northampton, MA, United States, [7]Institut de Recherche pour le Développement, Paris, France

2 p.m. 7132

TWENTY-FOUR MONTH LONGITUDINAL STUDY OF HOOKWORM INFECTION IN GHANAIAN SCHOOL CHILDREN

Irene A. Larbi[1], Debbie Humphries[2], Jana Lohrova[2], Molly McLaughlin[3], Luis Maldonado[2], Joseph Otchere[1], Josephine Quagraine[1], Sena Seddoh[1], Hibbah Saeed[1], George Mensah[1], Dickson Osabutey[1], Lisa M. Harrison[2], Hector Samani[1], Michael Cappello[2], Michael D. Wilson[1]
[1]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]Yale School of Public Health, New Haven, CT, United States, [3]Yale University, New Haven, CT, United States

2:15 p.m. 7133

STRONGYLOIDES STERCORALIS COINFECTION IS ASSOCIATED WITH ALTERED SYSTEMIC CYTOKINE PROFILES, GREATER DISEASE SEVERITY, HIGHER BACTERIAL BURDENS AND INCREASED FREQUENCIES OF UNFAVORABLE TREATMENT OUTCOMES IN PULMONARY TUBERCULOSIS

Saravanan Munisankar
ICER-NIRT, Chennai, India

Symposium 126

Immune Mechanisms in Parasitic Diseases: Lesson Learned From Controlled Human Infection Models

Plaza Ballroom - Lobby Level (East Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

Neglected tropical diseases caused by protozoan and helminth parasites have a major impact on human health and economic development in many lower-and middle-income countries. Vaccines are widely regarded to be potentially effective tools for disease prevention and control but few vaccines for human NTDs exist. Over the past few years, controlled human infection models (CHIMs) have been developed for a variety of respiratory and enteric diseases of bacterial and viral origin, including cholera, typhoid, streptococcal infections and most recently SARS-CoV-2. The development of CHIMs for parasitic diseases has often required unique solutions to accommodate the complexity of parasite life cycles, but despite these challenges CHIMs have been developed for malaria, schistosomiasis, hookworm and, more recently, cutaneous leishmaniasis and trichuriasis. These parasite CHIMs provide new opportunities for validating existing vaccine candidates. Of equal importance, however, they provide unique opportunities to study the human immune response to parasitic infection in a timed and controlled manner and to

identify correlates of immunity that may fuel future vaccine development programs. The aim of this symposium is to bring together researchers conducting CHIMs of helminth and protozoal infections, to review new data and to compare and contrast methodological approaches to studying immunity during CHIM studies. This symposium will focus on the presentation of data that provides new mechanistic understanding and/or new insights into correlates of immunity, rather than reviewing the use of CHIMs to evaluate vaccines. After a brief Chair's introduction, specific talks will cover malaria, hookworm, cutaneous leishmaniasis, schistosomiasis and trichuriasis. The session will close with a moderated open discussion on future research priorities and how CHIMs might best be used to understand the immunopathogenesis of these important neglected parasitic diseases.

CHAIR

Paul M. Kaye
University of York, York, United Kingdom

David Diemert
George Washington University, Washington, DC, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
UNDERSTANDING IMMUNOREGULATION IN MALARIA USING CHIM STUDIES

Christian Engwerda
QIMR Berghofer, Brisbane, Australia

1:15 p.m.
USING A MALARIA CHIM TO IDENTIFY CORRELATES OF PROTECTION

Francis Ndungu
KEMRI, Kilifi, Kenya

1:35 p.m.
MAPPING THE IMMUNE RESPONSE TO SCHISTOSOMIASIS USING A CHIM

Emma L. Houlder
Leiden University Medical Centre, Leiden, Netherlands

1:55 p.m.
USING A CHIM TO STUDY LOCAL IMMUNE RESPONSES IN SAND FLY TRANSMITTED CUTANEOUS LEISHMANIASIS

Paul M. Kaye
University of York, Heslington, York, United Kingdom

2:15 p.m.
USING CHIMS TO UNDERSTAND THE IMMUNOLOGY OF HOOKWORM AND TRICHURIASIS

David Diemert
George Washington University, Washington, DC, United States

Symposium 127

Update on Malaria Management in Travelers 2023

Crystal Ballroom A - Lobby Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

The aim of the symposium is to provide updated information to healthcare providers and travel medicine specialists to help them better care for returning travelers who have malaria. A review of best practices and update on management is timely. We have brought together CDC experts from the Malaria Branch to discuss epidemiology and prevalence of travelers' malaria in the U.S. with an emphasis on best practices. Cerebral malaria, a severe complication of malaria, poses management challenges, and our discussant who has a large clinical experience with this presentation will discuss cases of severe malaria. Finally, our session will review the benefits and limitations of primaquine and tafenoquine for prevention and radical cure.

CHAIR

Johanna Daily
Albert Einstein College of Medicine, Bronx, NY, United States

Christina Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
REVIEW OF MALARIA AMONG TRAVELERS IN THE U.S.: SURVEILLANCE AND TREATMENT. PART I

Kimberly Mace
CDC, Atlanta, GA, United States

1:10 p.m.
REVIEW OF MALARIA AMONG TRAVELERS IN THE U.S.: SURVEILLANCE AND TREATMENT. PART II

Alison Ridpath
CDC, Atlanta, GA, United States

1:25 p.m.
MANAGEMENT OF CEREBRAL MALARIA: CASE BASED DISCUSSION

Terrie E. Taylor
Michigan State University, E. Lansing, MI, United States

2 p.m.
CLINICAL USE OF TAFENOQUINE VERSUS PRIMAQUINE: BEST PRACTICES

Johanna Daily
Albert Einstein College of Medicine, Bronx, NY, United States

2:15 p.m.
CLINICAL USE OF TAFENOQUINE VERSUS PRIMAQUINE: BEST PRACTICES

Scott Weisenberg
NYU Langone Hospital, New York City, NY, United States

Scientific Session 128

Clinical Tropical Medicine: CNS Infections and HIV

Crystal Ballroom B - Lobby Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR
John Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

Joseph Donovan
London School of Hygiene & Tropical Medicine, London, United Kingdom

12:45 p.m. 7134

ACUTE ENCEPHALITIS SYNDROME IN ADULTS IN EASTERN INDIA: AN AETIOLOGICAL STUDY

Jaya chakravarty Tapadar, Tulika Rai, shubham kashyap, sumit chatterjee, Gopal Nath
Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

1 p.m. 7135

THE DIAGNOSIS OF SUBARACHNOID NEUROCYSTICERCOSIS IS OFTEN DELAYED AND OTHER FINDINGS OF A MULTICENTER RETROSPECTIVE IN THE USA

Janitzio Guzman[1], Jesica Herrick[2], Timothy J. Hatlen[3], Jill Weatherhead[4], Eva H. Clark[4], Jose Serpa[4], Felicia C. Chow[5], Paul Allyn[6], Noah Wald-Dickler[7], Martin Rodriguez[8], Natalie M. Bowman[9], Anna Cervantes-Arslanian[10], Christina Coyle[11], A. Clinton White[12], Senate Amusu[2], Dannae Martin[13], Megan M. Duffey[4], Travis Larsen[7], Elliott Welford[14], Jeffery Jenks[14], Annie N. Cowell[14], Andres F. Henao-Martinez[15], Carlos Franco-Paredes[16], Glenn Mathisen[17], Paola Lichtenberger[18], Rory Bouzigard[19], Laila Castellino[19], Elise M. O'Connell[1]
[1]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [2]University of Illinois at Chicago, Chicago, IL, United States, [3]The Lundquist Institute at Harbor-UCLA Medical Center, UCLA, CA, United States, [4]Baylor College of Medicine, Houston, TX, United States, [5]University of California San Francisco Medical Center, San Francisco, CA, United States, [6]David Geffen School of Medicine at UCLA, Los Angeles, CA, United States, [7]Los Angeles County + University of Southern California Medical Center, Los Angeles, CA, United States, [8]UAB Heersink School of Medicine, Birmingham, AL, United States, [9]University of North Carolina School of Medicine, Chapel Hill, NC, United States, [10]Boston University Medical Center, Boston, MA, United States, [11]Albert Einstein College of Medicine, New York, NY, United States, [12]University of Texas Medical Branch, Galveston, TX, United States, [13]The Lundquist Institute at Harbor-UCLA Medical Center, Los Angeles, CA, United States, [14]University of California San Diego Medical Center, San Diego, CA, United States, [15]University of Colorado School of Medicine, Aurora, CO, United States, [16]Colorado State University, Fort Collins, CO, United States, [17]Olive View-UCLA Medical Center, Bethesda, MD, United States, [18]University of Miami Miller School of Medicine, Miami, FL, United States, [19]University of Texas Southwestern Medical Center, Dallas, TX, United States

1:15 p.m. 7136

CO-INFECTION WITH STRONGYLOIDES STERCORALIS IN ADULTS WITH CRYPTOCOCCAL MENINGITIS IN AFRICA

Mary Foley[1], **Joseph Donovan**[2], Kwana Lechiile[3], Ronan Doyle[2], Monika Struebig[2], David B. Meya[4], Henry C. Mwandumba[5], Cecilia Kanyama[6], Graeme Meintjes[7], Tshepo Leeme[3], Chiratidzo E. Ndhlovu[8], Conrad Muzoora[4], David S. Lawrence[2], Thomas S. Harrison[9], Joseph N. Jarvis[2]
[1]London School of Hygiene & Tropical Medicine, London, United Kingdom, [2]Clinical Research Department, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Botswana Harvard AIDS Institute Partnership, Gaborone, Botswana, [4]Infectious Diseases Institute, College of Health Sciences, Makerere University, Kampala, Uganda, [5]Department of Medicine, Kamuzu University of Health Sciences, Blantyre, Malawi, [6]Lilongwe Medical Relief Trust (University of North Carolina Project), Lilongwe, Malawi, [7]Wellcome Centre for Infectious Diseases Research in Africa, Institute of Infectious Disease and Molecular Medicine, University of Cape Town, Cape Town, South Africa, [8]Internal Medicine Unit, Faculty of Medicine and Health Sciences, University of Zimbabwe, Harare, Zimbabwe, [9]Institute of Infection and Immunity, St George's University London, London, United Kingdom

1:30 p.m. 7137

SEROLOGIC RESPONSE USING ELISA ANTI-VI IGG ANTIBODIES AT SEVERAL TIME POINTS FOLLOWING IMMUNIZATION WITH TYPBAR-TCV AMONG HIV INFECTED CHILDREN IN KARACHI PAKISTAN

Zoya Haq[1], Farah Qamar[2], Sonia Qureshi[2], Fatima Mir[2], Mohammad Tahir Yousafzai[2], Rabab Batool[2]
[1]Liaquat National Medical College, Karachi, Pakistan, [2]Aga Khan University Hospital, Karachi, Pakistan

1:45 p.m. 7138

TRIM-HIV: TARGETING THE RESTORATION OF INNATE IMMUNITY IN MEN WHO HAVE SEX WITH MEN WITH EARLY INITIATION OF ANTIRETROVIRAL THERAPY IN HIV-1 INFECTION FOR MANAGEMENT IN TROPICAL REGIONS

Matrona Akiso Mbendo, Robert Langa't, daniel Muema, Geoffrey Ombati, Omu Anzala, **Marianne W. Mureithi**
Univeristy of Nairobi, Nairobi, Kenya

2 p.m. 7139

ASSOCIATION OF UROGENITAL SCHISTOSOMIASIS WITH HIV INFECTION IN A LARGE COMMUNITY-BASED COHORT IN ZAMBIA (THE ZIPIME WEKA SCHISTA STUDY)

Kwame Shanaube[1], Rhoda Ndubani[1], Olimpia Lamberti[2], Nkatya Kasese[1], Emily Webb[3], Beatrice Nyondo[1], Maina Cheeba[1], Jennifer Fitzpatrick[1], Helen Kelly[2], Helen Ayles[1], Amaya Bustinduy[2]
[1]Zambart, Lusaka, Zambia, [2]Department of Clinical Research, London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, London, United Kingdom

2:15 p.m. 7140

FALLING THROUGH THE CRACKS: APPLYING THE 95-95-95 METRIC TO PROVIDE INSIGHT INTO HIV PROGRAMME GAPS IN HIV-INFECTED INFANT DEATHS INVESTIGATED IN KENYA, SOUTH AFRICA AND MOZAMBIQUE

Beth A. Tippett Barr[1], Zachary Madewell[2], Victor Akelo[3], Dickens Onyango[4], Inacio Mandomando[5], Quique Bassat[6], Shabir Madhi[7], Sana Mahtab[7], Portia Mutevedzi[8], Cynthia Whitney[8], Dianna Blau[2]
[1]Nyanja Health Research Institute, Salima, Malawi, [2]US Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]US Centers for Disease Control and Prevention, Kisumu, Kenya, [4]Kisumu County Department of Health, Kisumu, Kenya, [5]Centro de Investigacao em Saude do Manhica, Maputo, Mozambique, [6]ISGlobal Universitat de Barcelona, Barcelona, Spain, [7]Witwatersrand University, Johannesburg, South Africa, [8]Emory University, Atlanta, GA, United States

Scientific Session 129

Viruses - Viral Pathogenesis and Biology

Regency Ballroom A - Ballroom Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

CHAIR
Hannah Mueller
Bernhard-Nocht-Institut for Tropical Medicine, Hamburg, Germany

Stacey Scroggs
ARS, USDA, Manhattan, KS, United States

12:45 p.m. **7141**

CULEX PIPIENS AND CULEX MODESTUS ARE VECTORS FOR WEST NILE VIRUS AND USUTU VIRUS, RESPECTIVELY, IN BELGIUM

Alina Soto, Lander De Coninck, Celine Van De Wiele, Ann-Sophie Devlies, Ana Lucia Rosales Rosas, Lanjiao Wang, Jelle Matthijnssens, Leen Delang
Rega Institute for Medical Research, KU Leuven, Leuven, Belgium

1 p.m. **7142**

INVESTIGATION OF VIRUS-HOST INTERACTIONS IN SEVERE FEVER WITH THROMBOCYTOPENIA SYNDROME VIRUS INFECTION USING A LIPIDOMICS APPROACH

Hin Chu, Bingpeng Yan, Bingjie Hu, Terrence Tsz-Tai Yuen, **Jasper Fuk-Woo Chan**
The University of Hong Kong, Hong Kong, Hong Kong

1:15 p.m. **7143**

APOLIPOPROTEIN-A1 MIMETIC PEPTIDE 4F BLOCKS FLAVIVIRUS NS1-INDUCED ENDOTHELIAL BARRIER DYSFUNCTION

Pedro H. Carneiro[1], Scott B. Biering[1], Ronaldo Mohana-Borges[2], Eva Harris[1]
[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Laboratório de Biotecnologia e Bioengenharia Estrutural, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

1:30 p.m. **7144**

DEVELOPING A MODEL OF PERSISTENT POWASSAN DISEASE IN C57BL/6 MICE

Stacey L.P. Scroggs[1], Danielle K. Offerdahl[2], Philip E. Stewart[2], Carl Shaia[2], Amanda J. Griffin[2], Marshall E. Bloom[2]
[1]United States Department of Agriculture, Manhattan, KS, United States, [2]National Institutes of Health, Hamilton, MT, United States

1:45 p.m. **7145**

FACTORS ASSOCIATED WITH LASSA FEVER FATALITY IN LIBERIA, 2016 - 2021: A SECONDARY DATA ANALYSIS

Emmanuel Dwalu[1], Ralph W. Jetoh[1], Bode I. Shobayo[1], Irene P. Pewu[1], Fahn M. Tarweh[1], Julius S M Gilayeneh[1], Himiede W. Wilson-Sesay[2], Godwin E. Akpan[2], Chukwuma D. Umeokonkwo[2], Jane A. MaCauley[1]
[1]National Public Health Institute of Liberia, Monrovia, Liberia, [2]Africa Field Epidemiology Network, Monrovia, Liberia

2 p.m. **7146**

EEG PATHOLOGIES IN LASSA FEVER INDICATING CEREBRAL INVOLVEMENT: RESULTS FROM 53 PROSPECTIVELY FOLLOWED PATIENTS

Hannah Mueller[1], Cyril Erameh[2], Mathias Gelderblom[3], Joseph Okeguale[4], Osas Edeawe[2], Stephan Guenther[5], Sylvanus Okogbenin[4], Michael Ramharter[6], Lisa Oestereich[5], Till Omansen[7]
[1]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, [2]Institute of Lassa Fever Research and Control & Department of Medicine, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [3]Department of Neurology, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, [4]Institute of Lassa Fever Research and Control & Department of Obstetrics and Gynaecology, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [5]Department of Virology, Bernhard Nocht Institute for Tropical Medicine and German Center for Infection Research, Hamburg, Germany, [6]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I. Department of Medicine, University Medical Center Hamburg-Eppendorf; German Center for Infection Research, Hamburg, Germany, [7]Department of Virology and Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I. Department of Medicine, University Medical Center Hamburg-Eppendorf; German Center for Infection Research, Hamburg, Germany

2:15 p.m. **7147**

POTENTIAL FOR PREEXISTING IMMUNITY TO SARS-COV2 IN EASTERN SIERRA LEONE

Nell G. Bond[1], Emily J. Engel[1], Foday Al-Hasan[2], Ibrahim M. Kanneh[2], Lansana D. Kanneh[2], Mambu Momoh[2], Ibrahim Sumah[2], Sruti Chandra[1], Robert F. Garry[1], James E. Robinson[1], Donald S. Grant[2], Troy D. Moon[3], John S. Schieffelin[1], Robert Samuels[2]
[1]Tulane University SOM, New Orleans, LA, United States, [2]Kenema Government Hospital, Kenema, Sierra Leone, [3]Tulane University School of Public Health, New Orleans, LA, United States

Symposium 130

WASHing Away Guinea Worm: Innovative Water, Sanitation, and Environmental Health Methodologies to Accelerate the Eradication of Guinea Worm

Regency Ballroom B - Ballroom Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

Guinea worm disease (caused by the helminth parasite Dracunculus medinensis) has become increasingly rare in humans due to more than 35 years of intensive efforts towards its eradication. Recent reported infection of Guinea worm in non-human hosts such as domestic dogs, cats, wildlife, and the implication of aquatic animals as potential paratenic and transport hosts has caused a rethink of the traditional interventions and surveillance infrastructure. As Guinea worm transmission is fundamentally associated with water, the environment, and their interaction with the pathogen, the global Guinea Worm Eradication Program (GWEP), in collaboration with research partners, has embarked on reshaping its scientific research agenda to optimize water, sanitation, and environmental health intervention methodologies. This symposium will discuss innovative WASH-e approaches employed to better understand Guinea worm transmission mechanisms and novel methods for intervention. For instance, we employ state-of-the-art technologies such as geospatial machine learning methods to describe the risk of infection across large populations, identify potential new areas with ecological characteristics capable of sustaining infection, and identify drivers of infection. Also, optical satellite imagery and synthetic aperture radar data are used to detect water bodies under tree canopy, ensuring that vector management interventions are deployed to the most hard-to-reach areas. These methodologies complement traditional surveillance infrastructure, thus vastly improving efforts towards disease eradication. Furthermore, we will also discuss water ecology studies that assess abundance of copepods in bodies of water with varying ecological characteristics. This work will further inform efficient vector management tools (i.e., Abate treatment). Finally, improving the uptake of environmental sanitation behaviors related to aquatic animal waste disposal and management can serve to interrupt emerging Guinea worm transmission pathways involving aquatic paratenic and transport hosts. This symposium will highlight the use of evidence from exploratory research to inform the design of novel aquatic animal waste interventions and address factors influencing their adoption.

CHAIR

David J. Civitello
Emory University, Atlanta, GA, United States

12:45 p.m.
INTRODUCTION

12:50 p.m.
EYES IN THE SKY: ASSESSING THE RISK OF GUINEA WORM IN CHAD USING MACHINE LEARNING AND REMOTE SENSING METHODS
Obiora Eneanya
The Carter Center, Atlanta, GA, United States

1:05 p.m.
THE USE OF OPTICAL SATELLITE IMAGERY AND SYNTHETIC APERTURE RADAR DATA FOR DETECTION OF WATER BODIES
Aragaw Lamesgim
The Carter Center, Atlanta, GA, United States

1:20 p.m.
ECOLOGY OF COPEPODS AND THEIR DYNAMIC RESPONSES TO PREDATORS AND ABATE TREATMENT
Stephanie O. Gutierrez
Emory University, Atlanta, GA, United States

1:35 p.m.
ENVIRONMENTAL SANITATION AS A GUINEA WORM ERADICATION PROGRAM INTERVENTION: FINDINGS FROM EXPLORATORY RESEARCH ON AQUATIC ANIMAL WASTE DISPOSAL & MANAGEMENT IN CHAD
Ariane S. Ngo Bea Hob
Chad Guinea Worm Eradication Program, N'Djamena, Chad

1:50 p.m.
PANEL MODERATOR
Adam J. Weiss
The Carter Center, Atlanta, GA, United States

Symposium 131

The Influence of Arboviruses on the Mosquito's Journey from Host - Seeking to Blood - Feeding

Regency Ballroom C - Ballroom Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

This symposium explores how mosquito-borne viruses influence the vectorial capacity of the yellow fever mosquito, *Aedes aegypti*. Vectorial capacity can be defined as the efficiency of a vector to transmit a pathogen and it depends on several factors, such as the feeding behavior of mosquitoes, mosquito abundance, mosquito survival, and environmental conditions. One of the key components of vectorial capacity is vector competence, which is defined as the ability of a vector to acquire, maintain and transmit a pathogen. After the mosquito's acquisition of a virus by feeding on an infected human host, relevant aspects of the mosquito's behavior can be directly influenced. Changes can be reflected by, for example, feeding frequency and biting persistence, patterns of activity and movement, and perception of and response to host-derived cues. On another level, mosquito-borne viruses could interact directly with insect-specific viruses or other pathogens present in the microbiome and virome of the mosquito. In addition, indirect effects, such as those modulating the mosquito's immune responses upon infection with a mosquito borne-virus or other processes when obtaining a blood-meal can also be observed. Indeed, there is evidence that both direct and indirect effects of viral infection are frequently enhancing transmission, and thereby increase disease risk in humans. Despite significant research in the last decade, evidence regarding the nature and extent of the effects of mosquito-borne viruses on mosquito behavior and transmission risks remains fragmented and it can be challenging to draw general conclusions across studies that focus on different systems and behaviors that frequently employ different methodologies. Given their relevance in transmission of human pathogens, there is a need for additional research aimed at documenting the effect of arboviruses on their vector behavior, elucidating the mechanisms and understanding the implications for epidemiology and global health. The organized discussion will focus on questioning which knowledge still needs to be generated on the virus-mosquito interface to understand the underlying mechanisms. Moreover, we will discuss how we could utilize these studies to improve control measurements and ultimately prevent mosquito-borne diseases.

CHAIR
Tessa M. Visser
Wageningen University and Research, Wageningen, Netherlands

Berlin L. Londono
Tulane University, New Orleans, LA, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
WHO IS IN CONTROL? DO FLAVI- AND ALPHAVIRUSSES MANIPULATE THE HOST-SEEKING BEHAVIOR OF *AEDES AEGYPTI*?
Tessa M. Visser
Wageningen University & Research, Wageningen, Netherlands

1:10 p.m.
TIME-DEPENDENT MODULATION OF LOCOMOTION AND HOST-SEEKING BEHAVIOR IN *AEDES AEGYPTI* BY DENGUE VIRUS
Anaïs K. Tallon
Mississippi State University, Starkville, MS, United States

1:25 p.m.
THE VECTOR COMPETENCE OF *AEDES AEGYPTI* MOSQUITOES FOR DENGUE IS MODULATED BY INSECT-SPECIFIC VIRUSES
Roenick P. Olmo
IBMC, Institute of Molecular and Cell Biology, Strasbourg, France

1:40 p.m.
VIRUS-VECTOR INTERACTIONS: OVERCOMING BARRIERS TO INFECTION
Douglas E. Brackney
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

1:55 p.m.
BLOOD MEALS WITH HEAT-INACTIVATED SERUM REVEAL THAT HUMAN COMPLEMENT PROTEINS MODIFY GENE EXPRESSION AND THE MICROBIOME OF AEDES MOSQUITO VECTORS
Arley F. Calle Tobón
Universidad de Antioquia, Medellín, Colombia

Symposium 132

Effectiveness and Efficacy of Chemoprevention for Children Under Five

Regency Ballroom D - Ballroom Level (West Tower)
Saturday, October 21, 12:45 p.m. - 2:30 p.m. U.S. Central Time Zone

In sub-Saharan Africa, almost 70% of malaria deaths in 2018 occurred in children under five years of age. Most childhood malarial disease and deaths occur during and immediately after the rainy season. Ongoing epidemiological shifts in the high-risk populations raise important technical, risk communication and operational challenges for malaria endemic countries, as traditional control interventions are inadequate. In developing novel approaches to prevent malaria, a major focus has been chemoprevention, the use of malaria drugs to prevent infection and disease during the high transmission season. Chemoprevention strategies work on the basis that a malaria treatment will clear any existing infections and prevent new infections. Since the 1980s, researchers have been investigating the use of medicines to prevent malaria among children living in the Sahel, where transmission is highly seasonal. Leading to Seasonal Malaria Chemoprevention (SMC) originally being recommended by WHO 10 years ago. In June 2022, WHO published consolidated guidelines for malaria, a package of new and updated recommendations across several technical areas, from malaria chemoprevention and mass drug administration to elimination. Encouraging countries to tailor recommendations to local disease settings for maximum impact. Within chemoprevention, interventions include SMC, intermittent preventive treatment in pregnancy (iPTp), perennial malaria chemoprevention (PMC) (formerly intermittent preventive treatment in infants (iPTi)), and intermittent preventive treatment in school children (IPTsc). Speakers will present findings highlighting recent innovations supporting malaria chemoprevention campaigns in different populations, locations and distribution models. Important findings and lessons learned will be presented from studies on implementing chemoprevention to school children in Uganda, a rapid assessment of SMC in a new location in Niassa, Mozambique, chemoprevention efficacy in traditional and new areas compared between Burkina Faso and Mozambique, and PMC in Nigeria. Finally, a moderated discussion on the key similarities and differences between the four studies will be held to advance the science of malaria chemoprevention campaigns.

CHAIR
Kevin Baker
Malaria Consortium, London, United Kingdom

12:45 p.m.
INTRODUCTION

12:50 p.m.
RESULTS FROM A STUDY TO UNDERSTAND MALARIA BURDEN AND TRANSMISSION DYNAMICS IN OLDER CHILDREN AND ADOLESCENTS IN UGANDA, AND TO EVALUATE THE IMPACT OF INNOVATIVE INTERMITTENT PREVENTIVE TREATMENT APPROACHES IN REDUCING MALARIA BURDEN
Jane Achan
Malaria Consortium, Kampala, Uganda

1:10 p.m.
RESULTS FROM A RAPID ASSESSMENT OF THE EFFECTIVENESS OF IMPLEMENTING SEASONAL MALARIA CHEMOPREVENTION IN A NEW LOCATION, NIASSA PROVINCE, IN MOZAMBIQUE
Baltazar Candrinho
Mozambique National Malaria Control Program, Maputo, Mozambique

1:30 p.m.
CHEMOPREVENTION EFFICACY OF SMC – A COMPARISON OF RESULTS FROM TRADITIONAL SAHEL SMC COUNTRIES VERSUS NEW GEOGRAPHIES IN EAST AND SOUTHERN AFRICA
Craig Bonnington
Malaria Consortium, London, United Kingdom

1:50 p.m.
CHEMOPREVENTION OPTIONS FROM SMC NON-ELIGIBLE AREAS – EXPERIENCES FROM NIGERIA
Olusola Oresanya
Malaria Consortium, Abuja, Nigeria

Career Chats: Meet the Editors

Grand Hall MN - Ballroom Level (East Tower)
Saturday, October 21, 2 p.m. - 3 p.m. United States Central Time Zone

This is an opportunity for ASTMH trainees and early career researchers to meet and talk with the editors of the global health-associated journals. Editors will answer questions about the journals, discuss the submission and review processes, and provide attendees with advice on how to in-crease the likelihood of publication and highlight common pitfalls to avoid. The editors will walk you through all stages of the editorial and peer review process, from how editors select referees, to how decisions are made from the set of reports. Trainees will also learn the components of a convincing cover and response letter and putting together a successful appeal.

CHAIR
Bartholomew Ondigo
Egerton University, Nakuru, Kenya

Dibyadyuti Datta, Assistant Professor
Indiana University, Bloomington, IN, United States

PANELISTS
Marco De Ambrogi, Deputy Editor
The Lancet Infectious Diseases, London, United Kingdom

Justin Yai, Research Fellow and Associate Editor
NIH/NIAID, Bethesda, MD, United States

Alison Jaeb, Managing Editor and Publisher, AJTMH
ASTMH, Arlington, VA, United States

Break

Saturday, October 21, 2:30 p.m. - 3 p.m. U.S. Central Time Zone

Poster Session C Dismantle

Riverside Center - Exhibit Level (East Tower) and Grand Hall GHI – Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 5:15 p.m.

Symposium 133

Enhancing Diversity, Equity and Inclusion in the Global Health Workforce by Increasing Participation of Under Represented Minorities (URM)

Grand Ballroom A - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Various high-impact studies conducted by the NIH point to the astonishingly low involvement of US underrepresented minorities (URM; American descendants of slaves (ADOS), Native Americans, Hispanics, Native Hawaiian and Asians) in the global health workforce and the need for radically improving research training, mentoring, and career development to advance health equity. Recent efforts by the NIH to promote diversity and inclusion in the biomedical workforce have achieved modest gains, especially among URM scientists involved in global health research. Interestingly, the URM's include diasporan scientists who originate from the LMICs, and their efforts to reach out and collaborate with LMIC communities to advance health equity as well as the challenges and opportunities they encounter have received little attention. Significant work is needed to harness this untapped capacity and human capital to contribute to the advancement of global health equity in developing countries. This symposium will explore the often-neglected role of the URM's in connecting with the LMIC to enhance diversity, equity, and inclusion in the global health research workforce. It will explore some unique relationships between the URM's based in the global North and those currently living in the LMIC and consider some opportunities for partnerships and capacity building. Perspectives (Challenges and Opportunities) of URM's in the diaspora working in advanced laboratories in the global north with ties to LMIC will be explored and contrasted with those that differ. It is hoped that this dialogue will sensitize and provide a forum for discussing difficult truths regarding differentials in power, and how subtle cultural or perceived cultural differences may affect collaborative research success. An underlying theme of this symposium is that such discussions will permit more meaningful and long-term collaborations as well as provide paths to transform international biomedical science and lead us into a truly post-colonial era.

CHAIR

Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

Linnie M. Golightly
Associate Dean, Diversity, Associate Professor of Medicine in Microbiology and Immunology, Weill Cornell Medical College, New York, NY, United States

3 p.m.
INTRODUCTION

3:10 p.m.
MODERATOR, PANEL DISCUSSION

Renee Alexander
Cornell University, Ithaca, NY, United States

PANELISTS

Linnie M. Golightly
Associate Dean, Diversity, Associate Professor of Medicine in Microbiology and Immunology, Microbiology and Immunology, Weill Cornell Medical College, New York, NY, United States

Frank Richards
The Carter Center, Atlanta, GA, United States

Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

Scientific Session 134

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Biology – Genetic Approaches

Grand Ballroom B - Ballroom Level (East Tower)

Supported with funding from the Burroughs Wellcome Fund

Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR

Michael Ferdig
University of Notre Dame, Notre Dame, IN, United States

Camilla V. Pires
University of South Florida, Tampa, FL, United States

3 p.m. **7267**

DYNAMICS AND SIGNALING OF MITOCHONDRIAL MRNA U-INDEL EDITING DURING *T. BRUCEI* DIFFERENTIATION

Joseph T. Smith Jr.[1], Brianna Tylec[1], Arunasalam Naguleswaran[2], Isabel Roditi[2], Laurie K. Read[1]
[1]University at Buffalo, Buffalo, NY, United States, [2]University of Bern, Bern, Switzerland

3:15 p.m. **7148**

FIRST STAGE GENOME-WIDE ASSOCIATION STUDY OF LYMPHATIC FILARIASIS PATHOLOGY IN AN AFRICAN POPULATION

Vera Serwaa Opoku[1], Sandeep Grover[2], Linda Batsa Debrah[3], Carlo Maj[2], Jubin Osei-Mensah[4], Derrick Adu Mensah[1], Achim Hoerauf[5], Alexander Yaw Debrah[6], Johannes Schumacher[2], Kenneth Pfarr[5]
[1]Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, [2]Centre for Human Genetics, Philipps University of Marburg, Marburg, Germany, [3]Department of Clinical Microbiology, School of Medicine and Dentistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [4]School of Veterinary Medicine, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, [5]Institute of Medical Microbiology, Immunology and Parasitology, Bonn, Germany, [6]Department of Medical Diagnostics, Faculty of Allied Health Sciences, Kwame Nkrumah University of Science and Techonology, Kumasi, Ghana

3:30 p.m. **7149**

GYPB GENE DELETIONS AFFECTS *PLASMODIUM FALCIPARUM* INVASION OF ERYTHROCYTES AND GROWTH OF SIALIC ACID DEPENDENT PARASITES

Dominic SY Amuzu[1], Lucas N. Amenga-Etego[1], Collins M. Moranga[1], Evelyn B. Quansah[1], Henrietta Mensah-Brown[1], Nancy K. Nyakoe[1], Christina Hubbart[2], Kate Rowlands[2], Anna Jeffreys[2], Kirk A. Rockett[3], Dominic P. Kwiatkowski[4], Gordon A. Awandare[1]
[1]West African Centre for Cell Biology of Infectious Pathogens, University of Ghana, Accra, Ghana, [2]Wellcome Centre for Human Genetics, University of Oxford, Oxford, United Kingdom, [3]Wellcome Sanger Institute, Wellcome Genome Campus, Cambridge, United Kingdom, [4]Wellcome Sanger Institute, Wellcome Genome Campus, Oxford, United Kingdom

3:45 p.m. **7150**

OXIDATIVE STRESS AND ANTIMALARIAL RESPONSES OF BLOOD-STAGE *PLASMODIUM FALCIPARUM*

Camilla V. Pires[1], Shulin Xu[1], Min Zhang[1], Chengqi Wang[1], Jenna Oberstaller[1], Thomas Otto[2], julian Rayner[3], Benoit Laleu[4], Jeremy Burrows[4], John Adams[5]
[1]University of South Florida, Tampa, FL, United States, [2]University of Glasgow, Glasgow, United Kingdom, [3]University of Cambridge, Cambridge, United Kingdom, [4]Medicines for Malaria Venture, Geneva, Switzerland, [5]University of South Florida, TAMPA, FL, United States

4 p.m. **7151**

IDENTIFYING THE DEVELOPMENTAL REGULATORS OF *PLASMODIUM FALCIPARUM* IN THE MALARIA MOSQUITO *ANOPHELES GAMBIAE*

Yan Yan[1], Elaine Cheung[1], Duo Peng[2], W. Robert Shaw[3], Esrah Du[1], Alexandra Probst[1], Flaminia Catteruccia[3]
[1]Harvard TH Chan School of Public Health, Boston, MA, United States, [2]The Chan Zuckerberg Biohub, San Francisco, CA, United States, [3]Harvard TH Chan School of Public Health/Howard Hughes Medical Institute, Boston, MA, United States

4:15 p.m. **7152**

GENETICS OF THE INTERACTION BETWEEN *PLASMODIUM FALCIPARUM* AND *ANOPHELES* ALBIMANUS

Prince Chigozirim Ubiaru, Sabyasachi Pradhan, Virginia Howick, Lisa Ranford-Cartwright
University of Glasgow, Glasgow, United Kingdom

4:30 p.m. **7153**

FIRST EVIDENCE OF EXPERIMENTAL GENETIC HYBRIDIZATION BETWEEN CUTANEOUS AND VISCERAL STRAINS OF LEISHMANIA DONOVANI WITHIN ITS NATURAL VECTOR PHLEBOTOMUS ARGENTIPES

Hasna Riyal[1], Andrea Paun[2], Tiago R. Ferreira[2], Nilakshi Samaranayake[1], David Sacks[2], Nadira Karunaweera[1]
[1]Department of Parasitology, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [2]National Institute of Allergy & Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Symposium 135

Integrating Malaria Into Public Health Emergency Operations Centers (PHEOCs) to Support Malaria Burden Reduction and Elimination: Lessons Learned from Sub-Saharan Africa and the Greater Mekong Subregion

Grand Hall J - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

As countries approach malaria elimination and adopt aggressive strategies to accelerate burden reduction, malaria-specific surveillance systems need to be integrated into comprehensive national public health information systems. In turn, efforts to strengthen and integrate real-time surveillance systems and tools for malaria can bolster capacity for early detection and response of other communicable diseases and public health emergencies and support pandemic preparedness. Public Health Emergency Operations Centers (PHEOCs) represent the ideal platform to integrate disease surveillance systems, serving as epidemic intelligence hubs that receive, analyze, and visualize multiple data streams. In countries with well-established PHEOCs, malaria integration can improve the availability of malaria surveillance data to rapidly identify outbreaks and provide additional capacity to plan, implement, and monitor interventions. For countries with weak global health security capacities, malaria integration can serve as an entry point for outbreak detection, data-driven targeted interventions, multi-sectoral response, and cross-border collaboration to reduce the risk of widespread health emergencies. In sub-Saharan Africa and the Greater Mekong Subregion, PHEOCs are being leveraged to accelerate and sustain malaria burden reduction and elimination efforts in a range of epidemiological settings, from Lao PDR and Vietnam to Senegal, The Gambia, and the Democratic Republic of the Congo. In this symposium, representatives from ministries of health and their partners will share their experiences and findings. Phetsouvanh Rattanaxay from the Lao PDR Ministry of Health will describe establishing a PHEOC for malaria elimination, including the process and challenges associated with making malaria a notifiable disease and integrating its surveillance and response mechanisms at central, provincial, and district levels. Seynabou Ndiaye will describe how a decentralized integration model has supported epidemic preparedness and response and malaria elimination efforts in both high and low transmission settings in Senegal. Abdoulaye Bousso will provide perspectives from Senegal and The Gambia around key enablers and challenges to malaria integration into PHEOCs, focusing on governance and the relative capacities of PHEOCs and endemic disease programs. Marie-Julie Lambert will use examples from multiple countries to showcase how PHEOCs combine data from disease programs, surveillance platforms, or logistical systems to build strong data analysis and modeling infrastructures.

CHAIR

Hana K. Bilak
PATH, Geneva, Switzerland

Abdoulaye Bousso
Resolve To Save Lives, New York, NY, United States

3 p.m.
INTRODUCTION

3:10 p.m.
GOVERNMENT PERSPECTIVE ON LEVERAGING THE PHEOC FOR MALARIA ELIMINATION AND INTEGRATING SURVEILLANCE AND RESPONSE MECHANISMS

Phetsouvanh Rattanaxay
Department of Communicable Disease Control (DCDC), Ministry of Health, Lao PDR, Vientiane, Lao People's Democratic Republic

3:35 p.m.

ADVANCED MIXED-COORDINATION UNITS FOR THE DECENTRALIZATION OF DISEASE SURVEILLANCE AND RESPONSE: LESSONS LEARNED FROM A REGIONAL "ONE HEALTH" APPROACH IN SENEGAL

Seynabou Ndiaye
Senegal Ministry of Health and Social Action, Saint-Louis, Senegal

3:50 p.m.

GOVERNANCE CONSIDERATIONS FOR EFFECTIVE COLLABORATIONS BETWEEN VERTICAL DISEASE PROGRAMS AND PUBLIC HEALTH EMERGENCY OPERATIONS CENTERS

Abdoulaye Bousso
Resolve To Save Lives, New York, NY, United States

4:05 p.m.

BUILDING DATA INTEGRATION PLATFORMS FOR MALARIA ELIMINATION: A REPLICABLE APPROACH IN SIX COUNTRIES

Marie-Julie Lambert
Bluesquare, Brussels, Belgium

Scientific Session 136

LIVE STREAMING

Malaria – Surveillance and Data Utilization

Grand Ballroom CDEF - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Jailos Lubinda
Telethon Kids Institute, Malaria Atlas Project, Cockburn City, Australia

Richard Maude
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

3 p.m. 7154

REDUCING MORTALITY DUE TO MALARIA THROUGH IMPROVED HEALTH WORKER PRACTICE, LESSONS FROM A DATA DRIVEN MENTORSHIP PROGRAM IN BUSOGA REGION IN EASTERN UGANDA

Patricia Mukose[1], Chris Mugenyi[1], Edward Mugwanya[1], Susan Nabirye[1], Irene Ayaa[2], Richard Opio Ongom[1], Irene Ochola[1], Angela Kateemu[1], Myers Lugemwa[3], Patrick Bukoma[3], Dorah Anita Talanta[1], Amy Casella[4], Aliza Hasham[5], Benjamin Binagwa[1], Natalia Whitley[4]
[1]John Snow Inc, Kampala, Uganda, [2]MCD Global Health, Kampala, Uganda, [3]Ministry of Health Uganda, Kampala, Uganda, [4]John Snow Inc, Boston, VA, United States, [5]John Snow Inc, Dar es Salam, United Republic of Tanzania

3:15 p.m. 7155

MAPPING THE EPIDEMIOLOGY OF DRUG-RESISTANT *PLASMODIUM FALCIPARUM* STRAINS IN THE GREATER MEKONG SUBREGION THROUGH CROSS-BORDER GENETIC SURVEILLANCE

Tess Danielle Verschuuren[1], Varanya Wasakul[1], Ethan Booth[1], Nguyen Thuy-Nhien[2], Mayfong Mayxay[3], Siv Sovannaroth[4], Keobouphaphone Chindavongsa[5], Viengphone Sengsavath[5], Huynh Hong Quang[6], Sónia Gonçalves[7], Shavanthi Rajatileka[7], Cristina Ariani[7], Richard J. Maude[1], Nicholas P. Day[1], Elizabeth A. Ashley[3], Dominic P. Kwiatkowski[7], Arjen M. Dondorp[1], Olivo Miotto[1]
[1]MORU, Bangkok, Thailand, [2]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [3]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic, [4]National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia, [5]Centre for Malariology, Parasitology, and Entomology, Vientiane, Lao People's Democratic Republic, [6]Institute of Malariology, Parasitology and Entomology (IMPE-QN), Quy Nhon, Vietnam, [7]Wellcome Sanger Institute, Hinxton, United Kingdom

3:30 p.m. 7156

LOSING SLEEP OVER DENOMINATORS: A NOVEL METHODOLOGY FOR MALARIA EPIDEMIOLOGICAL SURVEILLANCE USING FACILITY BASED DATA FROM SOUTHERN SENEGAL

Daniel Zachary Hodson[1], Médoune Dioup[2], Mamadou Lamine Diouf[2], Boubacar Kandé[3]
[1]United States Peace Corps Senegal, Dakar, Senegal, [2]National Malaria Control Program, Dakar, Senegal, [3]Médina Yoro Foulah Health District, Médina Yoro Foulah, Senegal

3:45 p.m. 7157

UPDATING THE MALARIA RISK STRATIFICATION IN LAO PDR TO INFORM INTERVENTION TARGETING AND RESOURCE ALLOCATION

Phoutnalong Vilay[1], Julia Dunn[2], **Odai Sichanthongthip**[1], Rita Reyburn[3], Phonephet Butphomvihane[3], Vilaisak Phiphakavong[3], Punam Amratia[4], Mary Hahm[2], Vilayphone Phongchantha[2], Chitsavang Chanthavisouk[3], Boualam Khamlome[1], Keobouphaphone Chindavongsa[1], Matthew Shortus[3]
[1]Centre of Malariology, Parasitology and Entomology, Vientiane, Lao People's Democratic Republic, [2]Clinton Health Access Initiative, Vientiane, Lao People's Democratic Republic, [3]World Health Organization, Vientiane, Lao People's Democratic Republic, [4]Malaria Atlas Project, Perth, Australia

4 p.m. 7158

QUANTIFYING THE VALUE OF ENTOMOLOGICAL SURVEILLANCE FOR PROGRAMMATIC DECISION-MAKING ON MALARIA CONTROL IN SUB-SAHARAN AFRICA

Nora Schmit, Hillary M. Topazian, Matteo Pianella, Giovanni D. Charles, Peter Winskill, Penelope A. Hancock, Ellie Sherrard-Smith, Katharina Hauck, Thomas S. Churcher, Azra C. Ghani
Imperial College London, London, United Kingdom

4:15 p.m. 7159

MAP HBHI GEOSPATIAL FRAMEWORK; LESSONS LEARNT FROM SUPPORTING THE GLOBAL FUND APPLICATIONS

Punam Amratia[1], Samuel Oppong[2], Tasmin Symons[1], Susan Rumisha[1], Beatriz Galatas[3], James Colborn[4], Balthazar Candrinho[5], Celestin Danwang[4], Mark Connell[1], Abdisalan Noor[3], Peter Gething[1]
[1]Malaria Atlas Project, Perth, Australia, [2]PMI Ghana, Accra, Ghana, [3]World Health Organization, Geneva, Switzerland, [4]Clinton Health Access Initiative, Boston, MA, United States, [5]National Malaria Control Program Mozambique, Maputo, Mozambique

4:30 p.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

6943

A PROGRAM EVALUATION OF COMMUNITY HEALTH WORKER-LED REACTIVE CASE DETECTION AND ITS IMPACT ON MALARIA MORBIDITY AND MORTALITY IN ZAMBIA

Ellen Ferriss[1], William Sheahan[1], Chris Lungu[2], Kafula Silumbe[2], John M. Miller[2], Hannah Slater[1], Adam Bennett[1]
[1]PATH, Seattle, WA, United States, [2]PATH, Lusaka, Zambia

6214

INTEGRATING ANTENATAL CLINIC-BASED MALARIA SCREENING DATA AND MATHEMATICAL MODELLING TO CAPTURE THE TRAJECTORY OF MALARIA TRANSMISSION IN WESTERN KENYA IN THE CONTEXT OF THE COVID-19 PANDEMIC.

Patrick GT Walker[1], Joseph Hicks[1], Oliver Towett[2], Brian Seda[2], Ryan Wiegand[3], Simon Kariuki[2], Julie Gutman[3], Aaron Samuels[3], Feiko ter Kuile[4]
[1]MRC Centre for Outbreak Analysis & Modelling, Imperial College London, London, United Kingdom, [2]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [3]Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]Department of Clinical Sciences, Liverpool School of Tropical Medicine,, Liverpool, United Kingdom

6938

THE POTENTIAL OF SATELLITE-DERIVED BUILDING POLYGONS DATA AS A PROXY TO ON-THE-GROUND HOUSEHOLD MAPPING TO PROVIDE DENOMINATOR FOR PUBLIC HEALTH INTERVENTIONS: A PILOT STUDY IN BATA DISTRICT, EQUATORIAL GUINEA

Jeremias Nzamio Mba Eyono[1], Restituto Mba Nguema Avue[1], David Galick[1], Victor Mba Micha[1], Julia Yumbe Baka[1], Jose Osa Osa Nfumu[2], Matilde Riloha Rivas[3], Carlos A. Guerra[1], Guillermo A. Garcia[4]
[1]MCD Global Health, Malabo, Equatorial Guinea, [2]Ministry of Health and Social Welfare, Malabo, Equatorial Guinea, [3]Ministry of Health and Social Welfare, National Malaria Control Program, Malabo, Equatorial Guinea, [4]MCD Global Health, Silver Spring, MD, United States

6209

OPTIMAL STRATIFICATION STRATEGIES IN THE SELECTION OF SENTINEL SITES FOR AN INTEGRATED MALARIA SURVEILLANCE IN BENIN

Didier Adjakidje[1], Florian D. Siaken Yabou[1], S. Emeric Chris Gbodo[1], Rock Aikpon[2]
[1]University of Abomey Calavi, Cotonou, Benin, [2]National Malaria Control Program, Ministry of Health, Cotonou, Benin

6941

SUBNATIONAL TAILORING AND TARGETING OF ANTI-MALARIA INTERVENTIONS IN ETHIOPIA

Amir Siraj[1], Gudissa Assefa[2], Hiwot Solomon[2], Asefaw Getachew[3], Gezahegn Tesfaye[3], Achamyelesh Sisay[2], Kebede Etana[2], Ayele Tiyou[2], Mebrahtom Haile[2], Belendia Serda[3], Asnakew Yeshiwondim[3], Dereje Dillu[3], Berhane Tesfay[3], Getachew Abebe[3], Arantxa Roca-Feltrer[4], Adam Bennett [1], Hannah Slater[1]
[1]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Seattle, WA, United States, [2]Ministry of Health, Addis Ababa, Ethiopia, [3]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Addis Ababa, Ethiopia, [4]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Maputo, Mozambique

Scientific Session 137

Integrated Control Measures for Neglected Tropical Diseases II

Grand Hall K - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Darin Evans
U.S. Agency for International Development, Washington, DC, United States

Victoria Turay
Helen Keller International, Freetown, Sierra Leone

3 p.m.

7160

PROGRESS TOWARDS INTERRUPTING TRANSMISSION OF ONCHOCERCIASIS IN ETHIOPIA

Tekola Endeshaw[1], Aderajew Mohammed[1], Abebual Yilak[2], Yewondwossen Bitew[1], Tewodros Seid[1], Geremew Haileyesus[1], Desalegn Jemberie[1], Mohammed Hassen[1], Fikresilasie Samuel[1], Yohannes Eshetu[1], Fanta Nigussie[1], Fetene Mihretu[1], Kadu Meribo[3], Fikre Seife[1], Emily Griswold[4], Anley Haile[1], Jenna E. Coalson[4], Gregory S. Noland[4], Frank O. Richards[4], Zerihun Tadesse[1]
[1]The Carter Center, Addis Ababa, Ethiopia, [2]University of Tübingen, Tübingen, Germany, [3]Federal Ministry of Health, Addis Ababa, Ethiopia, [4]The Carter Center, Atlanta, GA, United States

3:15 p.m.

7161

RESULTS FROM AN ENHANCED TRACHOMA IMPACT SURVEY IN FOUR LOW PREVALENCE DISTRICTS OF MOZAMBIQUE, 2022

Henis Sitoe[1], Felizmina Zita[1], Mawo Fall[2], Tamimo Momade[3], Rebecca Flueckiger[4], Will Oswald[4], Mabula Kasubi[5], Molly Adams[4], Thuy Doan[6], Thomas Lietman[6], Ben Arnold[6], Sarah E. Gwyn[7], Diana Martin[7], Jeremiah M. Ngondi[4]
[1]Ministry of Health, Maputo, Mozambique, [2]RTI International, Maputo, United Kingdom, [3]RTI International, Maputo, Mozambique, [4]RTI International, Washington DC, DC, United States, [5]Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, [6]Proctor Foundation, UCSF, San Francisco, CA, United States, [7]Centers for Disease Control and Prevention, Atlanta, GA, United States

3:30 p.m.

7162

SOIL TRANSMITTED HELMINTH INFECTIONS FOLLOWING FOURTEEN YEARS OF MASS DRUG ADMINISTRATION IN SIERRA LEONE

Ibrahim Kargbo-Labour[1], **Mohamed Bah**[2], Victoria Turay[2], Abdulai Conteh[1], Abdulai Koroma[2], Elisabeth Chop[3], Patricia Houck[3], Anna Phillips[4], Angela Weaver[3], Yaobi Zhang[3]
[1]Neglected Tropical Diseases Program, Ministry of Health and Sanitation, Freetown, Sierra Leone, [2]Helen Keller International, Freetown, Sierra Leone, [3]Helen Keller International, New York, NY, United States, [4]FHI 360, Washington, DC, United States

3:45 p.m.

7163

PROGRESS IN THE ELIMINATION OF THE TRANSMISSION OF SOIL-TRANSMITTED HELMINTHS IN THE WOLAITA ZONE IN SOUTHERN ETHIOPIA. THE GESHIYARO PROJECT MID-TERM PROGRESS EVALUATION

Birhan Abtew
Imperial College London, Addis Abeba, Ethiopia

4 p.m. 7164

METHODS FOR TRACHOMA SURVEYS AMONG MOBILE AND MIGRANT POPULATIONS OF KWEEN AND BULAMBULI DISTRICTS, EASTERN UGANDA

Stephen Begumisa[1], Rapheal Opon[2], Joyce Achan[1], Charles K. Kissa[2], Alfred Mubangizi[2], Sharone L. Backers[1], Stella Agunyo[1], Edwin Mayoki[1], Philip Kwemboi[3], Vincent Natega[4], Clara Burgert[5], Jeremiah M. Ngondi[5]
[1]RTI International, Kampala, Uganda, [2]Ministry of Health, NTD Programme, Kampala, Uganda, [3]Kween District Local Government, Kween, Uganda, [4]Bulambuli District Local Government, Bulambuli, Uganda, [5]RTI International, Washington DC, DC, United States

4:15 p.m. 7165

USE OF INVERSE DISTANCE WEIGHTING INTERPOLATION MODELLING AND GIS-BASED SPATIAL MAPPING TO ESTIMATE THE RISKS OF HOOKWORM AND INTESTINAL SCHISTOSOMIASIS INFECTIONS IN GHANA

Jeffrey G. Sumboh[1], Yvonne Ashong[1], Sedzro K. Mensah[1], Jewelna Akorli[1], Irene O. Donkor[1], Elias A. Bempong[2], Rahmat Yusif[1], Bright Idun[2], Freda Kwarteng[2], Frank T. Aboagye[2], Lisa Harrison[3], Debbie Humphries[4], Mike O. Atweneboana[2], Michael Cappello[3], Michael D. Wilson[1]
[1]Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [2]Council for Scientific and Industrial Research, Accra, Ghana, [3]Yale School of Medicine, New Haven, CT, United States, [4]Yale School of Public Health, New Haven, CT, United States

4:30 p.m. 7166

IMPROVED QUALITY OF NEGLECTED TROPICAL DISEASES MICRO PLANNING IN ROUTINE DEWORMING CAMPAIGNS THROUGH INNOVATIVE SOLUTIONS AND TOOLS IN KENYA

Anna Winters[1], Elizabeth Jere[2], Florence Wakesho[3], Ivy Sempele[4], Irene Chami[4], Wycliff Omondi[3]
[1]Akros, Missoula, MT, United States, [2]Akros, Lusaka, Zambia, [3]Kenya Ministry of Health, Nairobi, Kenya, [4]EndFund, New York, NY, United States

Symposium 138

Drug Development in Filarial Infections: Current Achievements and Challenges

Grand Hall L - Ballroom Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

The burden of helminth infections has been substantially reduced through mass drug administration programs, resembling a success story in combating infectious diseases. However, biological, political, and financial challenges are making it unlikely that MDA alone will be sufficient to eliminate helminth infections in the long run. Many factors can hinder the necessary coverage required for program success, such as primarily targeting specific populations (school-aged children) rather than the population as a whole (schistosomiasis, STH) or the suboptimal efficacy of MDA drugs (IVM, onchocerciasis). Alternative treatment options are limited, as less than a handful of drugs are registered for the treatment and control of helminth infections in humans, all of which have limitations. New drugs will be beneficial to make elimination efforts a true success story in the SDG agenda, in addition to increasing coverage of MDA and improving disease and MDA intake mapping. In this symposium, we will share the recent achievements and current challenges in the anthelmintic drug development landscape. The years- to decades-long process for drug development is complex and costly, entrenched with a high degree of uncertainty that a drug will succeed in the next development phase. Successful implementation of a novel intervention strongly depends on the environment. For NTDs, these are resource-poor settings with structural inequalities in access to health services, infrastructure, education, political influence, and weak markets. The dominant strategy to ensure access to medicines for NTDs is drug donation from Western pharmaceutical companies. Such dependence upon profit-driven organizations is precarious, and a more sustainable approach would be beneficial in multiple ways. We want to discuss the challenges and benefits of investing in development of new chemical entities with superior efficacy against NTDs.

CHAIR
Sabine Specht
DNDi, Geneva, Switzerland

3 p.m.
INTRODUCTION

3:10 p.m.
UPDATE ABBV-4083/FLUBENTYLOSIN DEVELOPMENT
Sabine Specht
Drugs for Neglected Disease Intitiative, Geneva, Switzerland

3:35 p.m.
UPDATE EMODEPSIDE
Jennifer Keiser
Swiss Tropical Institute, Basel, Switzerland

3:50 p.m.
UPDATE MOXIDECTIN
Mark Sullivan
Medicines Development for Global Health, Southbank, Australia

4:05 p.m.
MODELLING TO HELP DECISION MAKING
Martin Walker
Royal Veterinary College, North Mymms, United Kingdom

4:20 p.m.
ELIMINATION PROGRAMS ONCHOCERCIASIS: CURRENT PROGRESS AND FUTURE NEEDS
Didier K. Bakajika
WHO / ESPEN, Brazzaville, Republic of the Congo

Symposium 139

Turning the Tide for Women with Schistosomiasis: Advancing the Clinical and Research Agenda

Plaza Ballroom - Lobby Level (East Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

There are substantial gaps in our understanding of the epidemiology, natural history, and treatment of schistosomiasis in women. The speakers in this symposium will address some of these data gaps by addressing relevant topics related to schistosomiasis in women including new data regarding schistosomiasis in pregnancy, FGS treatment, genital mucosal immune correlates in FGS and the intersection between FGS, HPV and cervical cancer.

CHAIR
Amy Sturt
Stanford University, Palo Alto, CA, United States

Amaya Lopez Bustinduy
London School of Hygiene &Tropical Medicine, London, United Kingdom

3 p.m.
INTRODUCTION

3:10 p.m.
SCHISTOSOMIASIS IN WOMEN - BACKGROUND AND DIAGNOSTIC MODALITIES
Amy Sturt
Stanford University, Palo Alto, CA, United States

3:20 p.m.
OPTIMIZING FEMALE GENITAL SCHISTOSOMIASIS TREATMENT
Peter Derek Christian Leutscher
Regional Hospital North Jutland, Hjorring, Denmark

3:40 p.m.
GENITAL MUCOSAL IMMUNE CORRELATES IN WOMEN WITH SCHISTOSOMIASIS
Jane Maganga
Mwanza Intervention Trials Unit, National Institute for Medical Research (NIMR) Campus, Mwanza, United Republic of Tanzania

4 p.m.
S. HAEMATOBIUM INFECTION IN PREGNANCY
Josiane Honkpehedji
Centre de Recherche Medicales de Lambarene (Cermel), Lambarene, Gabon

4:20 p.m.
GENITAL SCHISTOSOMIASIS, HPV, AND CERVICAL CANCER
Amaya Lopez Bustinduy
London School of Hygiene & Tropical Medicine, London, United Kingdom

4:40 p.m.
PANEL MODERATOR
Jennifer A. Downs
Weill-Cornell Medical College, New York, NY, United States

Scientific Session 140

Malaria - Vaccine Development and Testing

Crystal Ballroom A - Lobby Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Andrea Berry
University of Maryland School of Medicine, Baltimore, MD, United States

Mehreen Datoo
Jenner Institute, University of Oxford, Oxford, United Kingdom

3 p.m. **7167**

NON-HUMAN PRIMATE AOTUS NANCYMAAE MODEL FOR THE EVALUATION OF *PLASMODIUM VIVAX* BLOOD STAGE VACCINES

Julio A. Ventocilla[1], L. Lorena Tapia[1], Freddy E. Villena[1], Diana C. Cedamanos[1], Jessica N. Buchta[1], Melina Florez[1], Hugo O. Valdivia[1], Danielle L. Pannebaker[1], Jürgen Bosch[2], Christopher King[2], Brandon K. Wilder[3]
[1]US Naval Medical Research Unit No 6, Callao, Peru, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Oregon Health & Science University, Portland, OR, United States

3:15 p.m. **7168**

A HUMAN ANTIBODY EPITOPE MAP OF PFS230D1 DERIVED FROM ANALYSIS OF INDIVIDUALS VACCINATED WITH A MALARIA TRANSMISSION-BLOCKING VACCINE

Wai Kwan Tang[1], Camila H. Coelho[1], Kazutoyo Miura[1], Bergeline C. Nguemwo Tentokam[1], Nichole D. Salinas[1], David L. Narum[1], Sara A. Healy[1], Issaka Sagara[2], Long A. Carol[1], Patrick E. Duffy[1], Niraj H. Tolia[1]
[1]National Institutes of Health, Bethesda, MD, United States, [2]University of Sciences, Techniques, and Technology, Bamako, Mali

3:30 p.m. **7169**

TWO NOVEL PFS230 DOMAINS DISCOVERED AS TARGETS FOR MALARIA TRANSMISSION-BLOCKING ANTIBODIES

Matthijs M. Jore[1], Maartje R. Inklaar[1], Roos M. De Jong[1], Ezra T. Bekkering[1], Lisanne Hubregtse[1], Maartje Meijer[1], Hikaru Nagaoka[2], Felix L. Fennemann[3], Karina Teelen[1], Rianne Stoter[1], Marga van de Vegte-Bolmer[1], Geert-Jan van Gemert[1], C. Richter King[4], Nicholas I. Proellochs[1], Teun Bousema[1], Eizo Takashima[2], Takafumi Tsuboi[5]
[1]Department of Medical Microbiology, Radboudumc, Nijmegen, Netherlands, [2]Division of Malaria Research, Proteo-Science Center, Ehime University, Matsuyama, Japan, [3]Department of Tumor Immunology, Radboudumc, Nijmegen, Netherlands, [4]PATH's Center for Vaccine Innovation and Access, Washington DC, DC, United States, [5]Division of Cell-Free Sciences, Proteo-Science Center, Ehime University, Matsuyama, Japan

3:45 p.m. **7170**

NOVEL BLOOD-STAGE VACCINE CANDIDATE RH5.1/AS01$_B$ ELICITS A MIX OF NEUTRALIZING AND NON-NEUTRALIZING PLASMA IGG LINEAGES IN MALARIA-NAÏVE UNITED KINGDOM ADULTS

Jeffrey Marchioni[1], Allison Seeger[1], Jordan R. Barrett[2], Kirsty McHugh[2], Jessica Kain[3], Randall S. MacGill[4], George Georgiou[1], Simon J. Draper[2], Jason J. Lavinder[1], Gregory C. Ippolito[1]
[1]The University of Texas at Austin, Austin, TX, United States, [2]Oxford University, Oxford, United Kingdom, [3]University of Wisconsin, Madison, WI, United States, [4]Center for Vaccine Innovation and Access, PATH, Washington, DC, United States

4 p.m. 7171

PROTECTIVE IMMUNE MECHANISMS INDUCED BY THE RTS,S MALARIA VACCINE IN A PEDIATRIC PHASE IIB CLINICAL TRIAL

Liriye Kurtovic[1], Gaoqian Feng[1], Alessia Hysa[1], Ali Haghiri[2], Katherine O'Flaherty[1], Bruce D. Wines[1], Rebeca Santano[3], Heidi E. Drummer[1], P. Mark Hogarth[1], Jahit Sacarlal[4], Freya J. I. Fowkes[1], Julie A. Simpson[2], Carlota Dobaño[3], James G. Beeson[1]
[1]Burnet Institute, Melbourne, Australia, [2]The University of Melbourne, Melbourne, Australia, [3]ISGlobal, Hospital Clínic Universitat de Barcelona, Barcelona, Spain, [4]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique

4:15 p.m. 7172

THE FINAL RESULTS OF A FIVE-YEAR, DOUBLE-BLIND, RANDOMISED CONTROLLED PHASE 3 TRIAL OF SEASONAL VACCINATION WITH RTS,S/AS01$_E$ VACCINE WITH OR WITHOUT SEASONAL MALARIA CHEMOPREVENTION IN YOUNG CHILDREN IN BURKINA FASO AND MALI

Alassane Dicko[1], Jean-Bosco Ouedraogo[2], Issaka Zongo[2], Issaka Sagara[1], Matthew Cairns[3], Serge Rakiswende Yerbanga[2], Djibrilla Issiaka[2], Charles Zoungrana[2], Youssoufa Sidibe[1], Amadou Tapily[1], Frederic Nikiema[2], Frederic Sompougdou[2], Koualy Sanogo[1], Mahamadou Kaya[1], Hama Yalcouye[1], Oumar M Dicko[1], Modibo Diarra[1], Kalifa Diarra[1], Ismaila Thera[1], Alassane Haro[2], Abdoul Aziz Sienou[2], Seydou Traore[1], Almahamadou Mahamar[1], Amagana Dolo[1], Irene Kuepfer[3], Paul Snell[3], Jane Grant[3], Jayne Webster[3], Paul Milligan[3], Cynthia Lee[4], Christian Ockenhouse[4], Opokua Ofori-Anyinam[5], Halidou Tinto[2], Abdoulaye Djimde[1], Daniel Chandramohan[3], **Brian Greenwood**[3]
[1]MRTC, Bamako, Mali, [2]INSTech/IRSS, Bobo-Dioulasso, Burkina Faso, [3]LSHTM, London, United Kingdom, [4]PATH, Seattle, WA, United States, [5]GSK, Wavre, Belgium

4:30 p.m. 7173

RESULTS FROM A PHASE III TRIAL EVALUATING THE R21/MATRIX-M MALARIA VACCINE

Alassane Dicko[1], Mainga Hamaluba[2], Ally Olotu[3], Jean Bosco Ouedraogo[4], Halidou Tinto[5], **Mehreen S. Datoo**[6], Emma Beaumont[7], John Bradley[7], Katie J. Ewer[6], Umesh Shaligram[8], Adrian V.S Hill[6], R21/Matrix-M Vaccine Phase III Trial Group[9]
[1]Malaria Research and Training Centre, University of Bamako, Bamako, Mali, [2]Kenya Medical Research Institute-Wellcome Trust Research Programme, Kilifi, Kenya, [3]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [4]Institut des Sciences et Techniques, Bobo-Dioulasso, Burkina Faso, [5]Unite de Recherche Clinique de Nanoro, Institut de Recherche en Sciences de la Sante, Nanoro, Burkina Faso, [6]University of Oxford, Oxford, United Kingdom, [7]London School of Hygiene & Tropical Medicine, London, United Kingdom, [8]Serum Institute of India Pvt. Ltd, Pune, India

Symposium 141

Clinical Tropical Medicine Debates: Lassa Fever and Leptospirosis

Crystal Ballroom B - Lobby Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

There is more than one approach to many clinical issues in Tropical Medicine, particularly when there is conflicting information or a lack of evidence for best approaches to patient care. This symposium will explore the use of Ribavirin for the treatment of Lassa Fever and chemoprophylaxis for prevention of Leptospirosis in a debate style format. Presenters will articulate a pro or con position around each issue followed by a panel discussion of the merits of each argument.

CHAIR

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

John W. Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

3 p.m.
INTRODUCTION

3:10 p.m.
RIBAVIRIN FOR TREATMENT OF LASSA FEVER: PRO
Sylvanus Okogbenin
Irrua Specialist Teaching Hospital, Irrua, Nigeria

3:35 p.m.
RIBAVIRIN FOR TREATMENT OF LASSA FEVER: CON
Alex Salam
University of Oxford, Oxford, United Kingdom

3:50 p.m.
CHEMOPROPHYLAXIS FOR PREVENTION OF LEPTOSPIROSIS: PRO
Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

4:05 p.m.
CHEMOPROPHYLAXIS OF LEPTOSPIROSIS: CON
Susan McLellan
University of Texas Medical Branch, Galveston, TX, United States

4:20 p.m.
PANELIST-TROPICAL MEDICINE DEBATES
Lin Chen
Mount Auburn Hospital, Cambridge, MA, United States

Symposium 142

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium II: The Dengue Endgame: Imagining a World with Dengue Control

Regency Ballroom A - Ballroom Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Recent advances in dengue vaccines, antivirals, therapeutics, biologics, and vector control have renewed hope that dengue control may be an achievable goal. However, these technological and medical advances are emerging into a world challenged by climate change, increasing urbanization, expanded regional and international travel, and viral evolution. In light of these challenges and opportunities the objectives of this symposium are to: 1) discuss the current state of dengue around the world, 2) discuss what dengue "control" might look like, and 3) discuss and identify potential routes towards dengue control. This symposium will start with two presentations on the current state of dengue around the world from the perspective of physician scientists from dengue-endemic areas. These talks will highlight lessons learned from decades of research in these areas, as well as new developments in dengue treatment and forecasting. The next presentation will review the current state of dengue vaccines and the implications of recent advances in vaccine technology. The next presentation will address advances in dengue antivirals, therapeutics, and biologics, followed by a presentation on the state of vector control as it pertains to dengue transmission. The symposium will end with a panel discussion.

CHAIR

Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

Adam T. Waickman
SUNY Upstate Medical University, Syracuse, NY, United States

3 p.m.
INTRODUCTION

3:10 p.m.
DENGUE IN THAILAND: LESSONS LEARNED AND PATH TO THE FUTURE

Darunee Buddhari
Kamphaeng Phet-AFRIMS Virology Research Unit, Kamphaeng Phet, Thailand

3:30 p.m.
FORECASTING DENGUE TRANSMISSION AND ADVANCES IN CLINICAL CARE

Sophie Yacoub
Oxford University Clinical Research Unit, Ho Chi Minh city, Vietnam

3:50 p.m.
DENGUE VACCINES: HISTORICAL PERSPECTIVES AND RECENT ADVANCES

Adam Waickman
SUNY Upstate Medical University, Syracuse, NY, United States

4:10 p.m.
ADVANCES IN DENGUE ANTIVIRALS AND THERAPEUTICS: IMPLICATIONS FOR DENGUE CONTROL

Timothy Endy
Coalition for Epidemic Preparedness Innovations, Oslo, Norway

4:30 p.m.
ADVANCES IN VECTOR CONTROL - TRIALS AND REAL WORLD EVIDENCE OF IMPACT ON DENGUE INCIDENCE

Cameron Simmons
World Mosquito Program, Mulgrave, Australia

Scientific Session 143

Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Outcomes

Regency Ballroom B - Ballroom Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR

Sarah Bick
London School of Hygiene & Tropical Medicine, London, United Kingdom

Rehnuma Haque
International Cholera and Diarhhoeal Disease Research Bangladesh, Dhaka, Bangladesh

3 p.m. **7174**

EXAMINING THE EFFECT OF NEIGHBORHOOD LATRINE COVERAGE ON CHILDHOOD DIARRHEAL RISK IN RURAL BANGLADESH

Hannah Van Wyk[1], Andrew F. Brouwer[1], Ayse Ercumen[2], Jesse Contreras[1], Matthew C. Freeman[3], Joseph N. Eisenberg[1]
[1]University of Michigan School of Public Health, Ann Arbor, MI, United States, [2]North Carolina State University Department of Forestry and Environmental Resources, Raleigh, NC, United States, [3]Rollins School of Public Health Emory University, Atlanta, GA, United States

3:15 p.m. **7175**

FIRST-EVER ENVIRONMENTAL SURVEILLANCE AT HUMANITARIAN SETTINGS IN COX'S BAZAR, BANGLADESH: DETECTION OF SARS-COV2 AND ENTERIC PATHOGENS

Md Rezaul Hasan[1], Md Ziaur Rahman[1], Nuhu Amin[1], Rehnuma Haque[1], Md Shariful Islam[2], Afroza Jannat Suchana[1], Mohammed Ziaur Rahman[3], Mohammad Enayet Hossain[3], Mojnu Miah[3], Suraja Raj[4], Pengbo Liu[4], Yuke Wang[4], Marlene Wolfe[4], Stephen Patrick Hilton[4], Chloe Svezia[4], Mahbubur Rahman[5], Ahmed Nawsher Alam[5], Zakir Hossain Habib[5], Aninda Rahman[6], David Otieno[7], Feroz Hayat Khan[7], Mahbubur Rahman[1], Megan B. Diamond[8], Tahmina Shirin[5], Christine L. Moe[4]
[1]Environmental Interventions Unit, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka 1212, Bangladesh, Dhaka, Bangladesh, [2]School of Public Health, University of Queensland, Brisbane, Australia, Brisbane, Australia, [3]One Health Laboratory, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka 1212, Bangladesh, Dhaka, Bangladesh, [4]The Center for Global Safe Water, Sanitation, and Hygiene at Emory University, USA, Atlanta, GA, United States, [5]Institute of Epidemiology, Disease Control, and Research (IEDCR), Dhaka, Dhaka, Bangladesh, [6]Communicable Disease Control (CDC) Program, Directorate General of Health Services (DGHS), Dhaka, Bangladesh, Dhaka, Bangladesh, [7]World Health Organization (WHO) Sub-office, Cox's Bazar, Bangladesh, Cox's Bazar, Bangladesh, [8]The Rockefeller Foundation, New York, NY, United States

3:30 p.m. **7176**

ENTERIC PATHOGEN FLOWS AT CITYWIDE SCALES

Drew Capone[1], Vanessa Monteiro[2], Victoria Cumbane[2], Edna Viegas[2], Joe Brown[3]
[1]Indiana University, Bloomington, IN, United States, [2]Centro de Investigação e Treino em Saúde da Polana Caniço, Maputo, Mozambique, [3]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

3:45 p.m. **7177**

INEQUALITIES IN CHILD DIARRHEA AND EFFECT MODIFICATION OF WATER, SANITATION AND HANDWASHING INTERVENTIONS BY SOCIOECONOMIC POSITION AND MONSOON SEASON IN RURAL BANGLADESH: A SUBGROUP ANALYSIS OF A CLUSTER RANDOMIZED TRIAL

Pearl Anne Ante-Testard[1], Francois Rerolle[1], Anna Nguyen[2], Sania Ashraf[3], Sarker Masud Parvez[3], Abu Mohammed Naser[4], Tarik Benmarhnia[5], Mahbubur Rahman[3], Stephen P. Luby[6], Jade Benjamin-Chung[2], Benjamin F. Arnold[1]
[1]Francis I. Proctor Foundation, Department of Ophthalmology, University of California San Francisco, San Francisco, CA, United States, [2]Department of Epidemiology and Population Health, Stanford University, Stanford, CA, United States, [3]Environmental Interventions Unit, Infectious Diseases Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [4]Division of Epidemiology, Biostatistics, and Environmental Health, School of Public Health, University of Memphis, Memphis, TN, United States, [5]Scripps Institution of Oceanography, University of California San Diego, San Diego, CA, United States, [6]Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States

4 p.m. 7178

INTER-RATER AGREEMENT OF FACIAL CLEANLINESS ASSESSMENTS IN RURAL COMMUNITIES OF THE PERUVIAN AMAZON BASIN

Evelyn R. Munayco[1], John M. Nesemann[2], Matthew C. Freeman[3], Maryann G. Delea[3], Jeremy D. Keenan[2], Andres G. Lescano[1]
[1]Emerge, Emerging Diseases and Climate Change Research Unit, School of Public Health and Administration, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]University of California, San Francisco, CA, United States, [3]Emory University, Atlanta, GA, United States

4:15 p.m. 7179

INFLUENCE OF TEMPERATURE AND PRECIPITATION ON THE EFFECTIVENESS OF WATER, SANITATION, AND HANDWASHING INTERVENTIONS ON CHILDHOOD DIARRHEAL DISEASE AND ENTERIC INFECTIONS IN BANGLADESH

Anna T. Nguyen[1], Jessica A. Grembi[1], Marie Riviere[1], Gabriella Barratt Heitmann[1], William D. Hutson[2], Tejas S. Athni[1], Arusha Patil[1], Ayse Ercumen[3], Audrie Lin[4], Yoshika Crider[1], Andrew Mertens[4], Leanne Unicomb[5], Mahbubur Rahman[5], John M. Colford[4], Stephen P. Luby[1], Benjamin F. Arnold[6], Jade Benjamin-Chung[1]
[1]Stanford University, Stanford, CA, United States, [2]Washington University in St. Louis, St. Louis, MO, United States, [3]North Carolina State University, Raleigh, NC, United States, [4]University of California, Berkeley, Berkeley, CA, United States, [5]International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, [6]Francis I. Proctor Foundation, University of California, San Francisco, San Francisco, CA, United States

4:30 p.m. 7180

HUMAN FECAL CONTAMINATION OF HOUSEHOLD WATER AND SOIL AND ENTERIC PATHOGENS IN CHILD STOOL

David A. Holcomb[1], Jackie Knee[2], Drew Capone[3], Rassul Nalá[4], Oliver Cumming[2], Jill R. Stewart[1], Joe Brown[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]Indiana University Bloomington, Bloomington, IN, United States, [4]Ministry of Health, Maputo, Mozambique

Scientific Session 144

Mosquitoes-Biology, Physiology and Immunity

Regency Ballroom C - Ballroom Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

CHAIR
Jun Li
Florida International University, Miami, FL, United States

Vincent O. Nyasembe
CDC, Atlanta, GA, United States

3 p.m. 7181

TOWARDS ARTIFICIAL INSEMINATION AND *IN VITRO* FERTILIZATION OF THE MALARIA *ANOPHELES*GAMBIAE

Vincent O. Nyasembe, Claire Schregardus, Priscila Bascunan, Mark Q. Benedict, Ellen M. Dotson
Center for Disease Control and Prevention, Atlanta, GA, United States

3:15 p.m. 7182

AEDES AEGYPTI ARGONAUTE 2 CONTROLS ARBOVIRUS-INDUCED MOSQUITO DEATH

Shengzhang Dong, George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

3:30 p.m. 7183

INFLUENCE OF MOSQUITO IMMUNE CELLS IN ARBOVIRUS DISSEMINATION IN *AEDES AEGYPTI*

David R. Hall[1], Hyeogsun Kwon[2], Rebecca Johnson[3], Zannatul Ferdous[3], S. Viridiana Laredo LaredoTiscareño[4], Bradley J. Blitvich[4], Doug E. Brackney[3], Ryan C. Smith[5]
[1]Interdepartmental Program in Genetics and Genomics, Iowa State University, Ames, IA, United States, [2]Department of Plant Pathology, Entomology and Microbiology, Iowa State University,, Ames, IA, United States, [3]Center for Vector-Borne and Zoonotic Diseases, Department of Environmental Sciences, The Connecticut Agricultural Experiment Station, New Haven, CT, United States, [4]Department of Veterinary Microbiology and Preventative Medicine, Iowa State University, Ames, IA, United States, [5]Department of Plant Pathology, Entomology and Microbiology, Iowa State University, Ames, IA, United States

3:45 p.m. 7184

CHARACTERIZATION OF SENSORY NEURONS IN *ANOPHELES* MOSQUITO APPENDAGES

Joanna Konopka[1], Darya Task[1], Danny Poinapen[2], Christopher Potter[1]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]Western University, London, ON, Canada

4 p.m. 7185

MOSQUITO RESISTANCE TO DENGUE VIRUS REVEALED BY SINGLE-CELL GENE EXPRESSION AND METABOLOMIC PROFILING OF MIDGUT AND FAT BODY

Thomas Vial, Louis Lambrechts, Sarah Merkling
Institut Pasteur, Université Paris Cité, CNRS UMR2000, Insect-Virus Interactions Unit, Paris, France

4:15 p.m. 7186

PLASMODIUM PARASITOPHOROUS VACUOLE MEMBRANE PROTEIN PFS16 PROMOTES MALARIA TRANSMISSION BY SILENCING MOSQUITO IMMUNITY

Julian Ramelow, Yacob Keleta, Guodong Niu, Xiaohong Wang, **Jun Li**
Florida International University, Miami, FL, United States

4:30 p.m. 7187

TEMEPHOS RESISTANCE IS ASSOCIATED WITH REDUCED VECTOR COMPETENCE FOR ZIKA VIRUS IN *AEDES AEGYPTI*

Grant A. Kay, Jennifer S. Lord, Grant L. Hughes, Lisa J. Reimer
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 145

Surveillance for Malaria Elimination: What Does it Take to be Sure of Zero Infections?

Regency Ballroom D - Ballroom Level (West Tower)
Saturday, October 21, 3 p.m. - 4:45 p.m. U.S. Central Time Zone

Surveillance data is the crucial evidence-base to inform targeting interventions, to measure progress in reducing transmission, and to determine whether malaria elimination has been achieved. Establishing a surveillance system to confirm the presence of infections is relatively straightforward, although structure and data quality do vary. However, as more malaria endemic countries are getting closer to malaria elimination, understanding the implications of transitioning the surveillance system to enable further integration of data sources and options to enable an elimination framework so the system is fit for purpose is paramount. This symposium will bring together experts to share experiences and novel surveillance tools to support decision-making for malaria elimination. First, we will provide an overview of the current expectations of malaria surveillance systems for being ready to apply for malaria elimination certification with a specific focus on the components that countries find most challenging to meet. Next, the specific malaria surveillance needs to confirm elimination of *P. vivax* malaria transmission given the risk of continued relapses from hypnozoite carriers will be discussed. The focus will be on the current approaches being applied in Peru and other *P. vivax* endemic settings, key challenges, and potential solutions for adapting surveillance systems to confirm elimination. Thirdly, results from the novel Freedom From Infection (FFI) tool to assess the sensitivity of the malaria surveillance system and the corresponding likelihood that elimination is supported by all available evidence will be presented. Results based on passive and active surveillance data collected in 6 countries identified specific factors that are associated with a high system sensitivity: for example, the probability of someone being more likely to seek care at a given facility was consistently associated with testing equipment availability (coefficient range: 0.1-11.9). The potential for FFI to be an important programmatic tool to support decision-making will be discussed. Subsequently, we will present examples from countries that are starting to think about incorporating new approaches to verify zero malaria from a surveillance perspective, how routine data quality audits have been adapted to look at zero reporting, how surveillance assessments incorporate elements of zero malaria verification and how community level digital tools are tailored in elimination areas to contribute to robust malaria data analyses in this context. Finally, the session will conclude with a presentation on the opportunities to leverage the multiple malaria diagnostics to maximize the information available to support programmatic decision-making for confirming elimination.

CHAIR

Gillian H. Stresman
University of South Florida, Tampa, FL, United States

Gabriel Carrasco Escobar
Universidad Peruana Cayetano Heredia, Lima, Peru

3 p.m.
INTRODUCTION

3:10 p.m.
COUNTRY EXPERIENCES WITH WHO CERTIFICATION REQUIREMENTS FOR MALARIA ELIMINATION CERTIFICATION
Hong Li
World Health Organization, Geneva, Switzerland

3:25 p.m.
MALARIA SURVEILLANCE FOR ELIMINATION: CONFIRMING *P. VIVAX* ELIMINATION IN PERU
Gabriel Carrasco Escobar
Universidad Peruana Cayetano Heredia, Lima, Peru

3:40 p.m.
FREEDOM FROM INFECTION: A NOVEL TOOL TO ESTIMATE THE SENSITIVITY OF THE MALARIA SURVEILLANCE SYSTEM, INCORPORATING ALL AVAILABLE DATA, AND THE CORRESPONDING CONFIDENCE THAT ELIMINATION IS LIKELY
Gillian Stresman
University of South Florida, Tampa, FL, United States

3:55 p.m.
COUNTRY EFFORTS TO INCORPORATE NEW APPROACHES TO VERIFY ZERO MALARIA FROM A SURVEILLANCE PERSPECTIVE
Arantxa Roca-Feltrer
PATH, Maputo, Mozambique

4:10 p.m.
OPPORTUNITIES TO LEVERAGE MULTIPLE MALARIA DIAGNOSTIC TOOLS TO SUPPORT MALARIA SURVEILLANCE AND PROGRAMMATIC DECISION-MAKING
Chris Drakeley
London School of Hygiene & Tropical Medicine, London, United Kingdom

Ben Kean Fellowship Reception - By Invitation Only

Michigan 1A - Concourse Level (East Tower)
Saturday, October 21, 5 p.m. - 7 p.m. U.S. Central Time Zone

Special Session 146

Clinical Pub Trivia Night

Michigan 1B/1C- Concourse Level (East Tower)
Saturday, October 21, 6:15 p.m. - 8 p.m. U.S. Central Time Zone

Come join us for a fun-filled collegial competition, sponsored by the ASTMH Clinical Group. This is a chance to meet others interested in clinical tropical medicine, show your knowledge, learn some new fun facts, and enjoy free snacks. Don't worry if you are new to TropMed. Teams will be a mix of people with different levels of experience, and you won't be asked to answer any question alone. The winning team takes home prizes and bragging rights.

EMCEE
Jill Weatherhead
Baylor College of Medicine, Houston, TX, United States

Sunday, October 22

Registration

Grand Ballroom Foyer - Ballroom Level (East Tower)
Sunday, October 22, 7 a.m. - 10:30 a.m. U.S. Central Time Zone

Speaker Ready Room

Grand Suite 2AB - Ballroom Level (East Tower)
Sunday, October 22, 7 a.m. - Noon U.S. Central Time Zone

Meeting Sign-Up Room

Horner and Ogden - Third Floor (West Tower)
Sunday, October 22, 7 a.m. - 1 p.m. U.S. Central Time Zone

Nursing Mothers Room

Grand Suite 1 and Grand Suite 4 - Ballroom Level (East Tower)
Sunday, October 22, 7 a.m. - 1 p.m. U.S. Central Time Zone

Prayer Room

Hong Kong - Ballroom Level (West Tower) and Field - Third Floor (West Tower)
Sunday, October 22, 7 a.m. - 1 p.m. U.S. Central Time Zone

Scientific Session 147

Global Health: ICT Innovations for Improved Health Care Service Delivery

Grand Ballroom A - Ballroom Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Laura Steinhardt
CDC, Atlanta, GA, United States

Rainer Tan
Unisanté, Lausanne, Switzerland

8 a.m. 7188

ANTIBIOTIC STEWARDSHIP USING THE EPOCT+ DIGITAL CLINICAL DECISION SUPPORT ALGORITHM IN PRIMARY CARE FACILITIES IN TANZANIA: A CLUSTER RANDOMIZED CONTROLLED TRIAL

Rainer Tan[1], Lameck B. Luwanda[2], Godfrey Kavishe[3], Alexanda V. Kulinkina[4], Chacha Mangu[3], Sabine Renggli[2], Geofrey Ashery[2], Margreth Joram[2], Ibrahim E. Mtebene[2], Peter Agrea[3], Alan Vonlanthen[1], Vincent Faivre[1], Julien Thabard[1], Humphrey Mhagama[3], Gillian Levine[4], Marie-Annick Le Pogam[1], Kristina Keitel[5], Patrick Taffé[1], Nyanda Ntinginya[3], Honorati Masanja[2], Valérie D'Acremont[1]
[1]Unisanté, Lausanne, Switzerland, [2]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [3]National Institute of Medical Research - Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, [4]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [5]University Hospital Bern, Bern, Switzerland

8:15 a.m. 7189

EFFECTIVENESS OF A CLINICAL DECISION SUPPORT ALGORITHM (EPOCT+) IN IMPROVING QUALITY OF CARE FOR SICK CHILDREN IN PRIMARY HEALTH FACILITIES IN TANZANIA (DYNAMIC PROJECT): RESULTS FROM A CLUSTER RANDOMIZED TRIAL

Godfrey A. Kavishe[1], Alexandra V. Kulinkina[2], Sabine Renggli[3], Chacha D. Mangu[1], Lameck Luwanda[3], Peter Agrea[1], Humphrey Mhagama[1], Margaret Joram[3], Ibrahim Mtebene[3], Geofrey I. Ashery[3], Marie-Annick Le Pogam[4], Honorati Masanja[3], Nyanda E. Ntinginya[1], Valérie D'Acremont[4], Rainer Tan[4]
[1]National Institute of Medical Research-Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, [2]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [3]Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, [4]Unisanté, Centre for Primary Care and Public Health, University of Lausanne, Lausanne, Switzerland

8:30 a.m. 7190

MULTIMODAL VITAL SIGN DEVICES FOR RELIABILITY AND FEASIBILITY, USABILITY, AND ACCEPTABILITY IN A LOW-RESOURCE SETTING - A PRELIMINARY ANALYSIS

Lava Shrestha[1], Debashish Das[2], Philip Horgan[2], Jyotshna Sapkota[2], Aurélien Mace[2], Thomas Keller[3], Patrick Kantelhardt[3], Sabita Kandel[1], Lisa Soti[4], Phyu Hnin Hlaing[5], Santa Kumar Das[1], Pradip Gyanwali[1], George Korir[2], Sabine Dittrich[2], Cassandra Kelly-Cirino[2], Marta Fernandez Suarez[2], Sergio Carmona[2], Kevin K.A. Tetteh[2]
[1]Institute of Medicine, Kathmandu, Nepal, [2]FIND, Geneva, Switzerland, [3]ACOMED Statistik, Leipzig, Germany, [4]Department of Public Health, Om Health Campus Pvt. Ltd, Kathmandu, Nepal, [5]Evidence & Impact - Oxford, Oxford, United Kingdom

8:45 a.m. 7191

DEVELOPMENT AND EVALUATION OF A CLINICAL GUIDELINE FOR A PEDIATRIC TELEMEDICINE AND MEDICATION DELIVERY SERVICE: A PROSPECTIVE COHORT STUDY IN HAITI

Molly Klarman[1], Xiaofei Chi[2], Youseline Cajusma[1], Katelyn E. Flaherty[2], Anne Carine Capois[1], Michel Daryl Vladimir Dofiné[1], Lerby Exantus[3], Jason Friesen[4], Valery M. Beau de Rochars[2], Torben K. Becker[2], Chantale Baril[5], Matthew J. Gurka[2], Eric J. Nelson[2]
[1]University of Florida, Gressier, Haiti, [2]University of Florida, Gainesville, FL, United States, [3]Université d'État d'Haiti- Faculté de Médecine et de Pharmacie, Port au Prince, Haiti, [4]Trek Medics International, Charlotte, NC, United States, [5]Université d'État d'Haiti- Faculté de Médecine et de Pharmacie, Port au Prince, Haiti

9 a.m. 7192

IMPACT OF A DIGITAL CLINICAL DECISION SUPPORT ALGORITHM ON ANTIBIOTIC PRESCRIPTION IN RWANDA: PRELIMINARY RESULTS FROM A CLUSTER NON-RANDOMIZED CONTROLLED TRIAL

Alexandra V. Kulinkina[1], Victor Rwandarwacu[2], Joseph Habakurama[2], Angelique Ingabire[2], Ludovico Cobuccio[3], Emmanuel Kalisa[2], Gilbert Rukundo[2], Gillian Levine[1], Martin Norris[1], Rainer Tan[1], Alan Vonlanthen[3], Vincent Faivre[3], Julien Thabard[3], Marie-Annick Le Pogam[3], Valerie D'Acremont[3]
[1]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [2]Swiss Tropical and Public Health Institute, Kigali, Rwanda, [3]Centre for Primary Care and Public Health, University of Lausanne (Unisanté), Lausanne, Switzerland

9:15 a.m. 7193

ENVIRONMENTAL IMPACT AND MINERAL AND ENERGY REQUIREMENTS OF THE USE OF AN ELECTRONIC CLINICAL DECISION SUPPORT ALGORITHM (CDSA) TO MANAGE SICK CHILDREN IN TANZANIA: A LIFE CYCLE ASSESSMENT

Nina Emery[1], Maxime Karlen[1], Rainer Tan[1], Godfrey Kavishe[2], Peter Agrea[2], Sabine Renggli[3], Alexandra Kulinkina[4], Lameck Luwanda[3], Chacha Mangu[2], Pascale Schwab[5], Xavier Bengoa[6], Valérie D'Acremont[1]

[1]Unisanté, Lausanne, Switzerland, [2]National Institute for Medical Research - Mbeya Medical Research Center, Mbeya, United Republic of Tanzania, [3]Ifakara Health Institute, Ifakara, United Republic of Tanzania, [4]Swiss Tropical and Public Health Institute, Basel, Switzerland, [5]University of Lausanne, Lausanne, Switzerland, [6]AdAstra Sustainability, Choulex, Switzerland

9:30 a.m. 7194

LEVERAGING DIGITAL MOBILE TECHNOLOGY TO INCREASE KNOWLEDGE OF TUBERCULOSIS DISEASE AND BRIDGE THE GAP IN TB CASE FINDING IN NIGERIA: A CASE STUDY OF THE NATIONAL TUBERCULOSIS CALL CENTRE

Olatunde Toluwase[1], Joseph Edor[1], Linda Osaji[1], Cecilia Kafran[1], Jennifer Orkis[2], Ian Tweedie[1], Emeka Okafor[3], Debby Nongo[4], Bolatito Aiyenigba[1], Obioma Akaniro[5], Chukwuma Anyaike[5]

[1]Johns Hopkins Center for Communication Programs - USAID Breakthrough ACTION, Abuja, Nigeria, [2]Johns Hopkins Center for Communication Programs - USAID Breakthrough ACTION, Baltimore, MD, United States, [3]Interra Networks Limited, Abuja, Nigeria, [4]United States Agency for International Development (USAID), Abuja, Nigeria, [5]National Tuberculosis and Buruli Ulcer Control Programme (NTBLCP), Abuja, Nigeria

Scientific Session 148

Malaria - Prevention I

Grand Ballroom B - Ballroom Level (East Tower)

Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Nelli Westercamp
U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

Keith Esch
PSI, Washington, DC, United States

8 a.m. 7195

REDUCING LOW BIRTH WEIGHT BY ADDING TWO DOSES OF AZITHROMYCIN TO THE INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY WITH SULFADOXINE PYRIMETHAMIN: A RANDOMIZED CONTROLLED TRIAL IN BURKINA FASO

Moussa Lingani[1], Serge Henri Zango[1], Innocent Valéa[1], Sékou Samadoulougou[2], Michèle Dramaix[3], Halidou Tinto[1], Philippe Donnen[3], Annie Robert[4]

[1]Institut de Recherche en Sciences de la Santé/Direction Régionale du Centre Ouest (IRSS/DRCO), Nanoro, Burkina Faso, [2]Evaluation Platform on Obesity Prevention, Quebec Heart and Lung Institute Research Center, Quebec City, QC G1V 4G5, Quebec, QC, Canada, [3]École de santé publique, Université Libre de Bruxelles. CP594, route de Lennik 808, 1070 Bruxelles, Bruxelles, Belgium, [4]Epidemiology and Biostatistics Research Division, Institut de recherche expérimentale et clinique, Université catholique de Louvain, Brussels B1.30.13, Clos Chapelle-aux-Champs 30, B-1200 Brussels, Bruxelles, Belgium

8:15 a.m. 7196

THE UGANDA HOUSING MODIFICATION STUDY - A CLUSTER RANDOMIZED TRIAL EVALUATING THE IMPACT OF TWO TYPES OF HOUSING MODIFICATION ON MALARIA BURDEN IN UGANDA

Nelli Westercamp[1], Samuel Gonahasa[2], Agaba Katureebe[2], Catherine Maiteki-Sebuguzi[3], Joaniter I. Nankabirwa[2], Jimmy Opigo[3], Henry Mawejje[2], John E. Gimnig[1], Peter Mutungi[2], Katherine Snyman[4], Walter Ochieng[1], Susan Nayiga[2], Eleanor Hutchinson[4], Seth R. Irish[5], Jenny Carlson[6], Mame Niang[7], Kassahun A. Belay[8], Sarah G. Staedke[4], Moses R. Kamya[2]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]Ministry of Health (MOH/NMCP), Kampala, Uganda, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom, [5]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States, [6]U.S. President's Malaria Initiative, USAID, Washington, DC, United States, [7]U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Kampala, Uganda, [8]U.S. President's Malaria Initiative, USAID, Kampala, Uganda

8:30 a.m. 7197

INSECTICIDE CHEMICAL CONTENT AND BIOEFFICACY OF INSECTICIDE-TREATED NETS CONTAINING CHLORFENAPYR OR PIPERONYL BUTOX-IDE OVER 24 MONTHS OF FIELD USE IN BURKINA FASO, RWANDA, SIERRA LEONE, AND BURUNDI

Keith Esch[7], *Isabel Swamidoss[2], Jacky Raharinjatovo[3], Raymond Sudoi[4], Carla Mapp[2], Denis Sinzinkayo[5], Pierre Sinar-inzi[6], Mugisha Landrine[6], Aklilu Seyoum[7], Beatus Cyubahiro[8], Emmanuel Hakizimana[8], Aimable Mbituyumuremyi[8], Elias Niyituma[9], Dennis H. Marke[10], Frederick Yamba[10], Stephen Poyer[1]*

[1]PMI VectorLink, Population Services International, Washington, DC, United States, [2]Entomology Branch, Division of Parasitic Diseases and Malaria, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]PMI VectorLink, Population Services International, Antananarivo, Madagas-car, [4]PMI VectorLink, Population Services International, Nairobi, Kenya, [5]PMI VectorLink, Abt Associates, Bujumbura, Burundi, [6]Programme National Intégré de Lutte contre le Paludisme, Bujumbura, Burundi, [7]PMI VectorLink, Abt Associates, Rockville, MD, United States, [8]Malaria and Other Parasitic Diseases Control Division, Rwanda Biomedical Center, Ministry of Health, Kigali, Rwanda, [9]PMI VectorLink, Abt Associates, Kigali, Rwanda, [10]National Malaria Control Programme, Ministry of Health and Sanitation, Freetown, Sierra Leone

8:45 a.m. 7198

THE RIPPLE EFFECT OF QUALITY IMPROVEMENT IN STRENGTHENING UPTAKE OF INTERMITTENT PREVENTIVE TREATMENT FOR THE PREVENTION OF MALARIA IN PREGNANCY: A CASE STUDY OF KAKAMEGA COUNTY, KENYA

Agatha Kutoy Mandu[1], Francesca Nzuve[1], Beth Barasa[1], Faustinah Sakari[2], Linet Ilemenya[2], Ahmeddin Omar[3], Elvis Oyugi[3], Peter Njiru[3]

[1]U.S. President's Malaria Initiative, Impact Malaria Project, Nairobi, Kenya, [2]Ministry of Health, Kakamega County, Kakamega, Kenya, [3]Division of National Malaria Program, Ministry of Health, Nairobi, Kenya

9 a.m. 7199

LLIN EVALUATION IN UGANDA PROJECT (LLINEUP2): IMPACT OF LONG-LASTING INSECTICIDAL NETS (LLINS) TREATED WITH PYRETHROID PLUS PYRIPROXYFEN VS LLINS TREATED WITH PYRETHROID PLUS PIPERONYL BUTOXIDE ON MALARIA INCIDENCE IN UGANDA: A CLUSTER-RANDOMIZED TRIAL

Samuel Gonahasa[1], Martha J. Nassali[1], Jane F. Namuganga[1], Catherine Maiteki-Sebuguzi[2], Jimmy Opigo[2], Daniel Kyabayinze[3], Isaiah Nabende[1], Jaffer Okiring[1], Adrienne Epstein[4], Katherine Snyman[5], Joaniter I. Nankabirwa[1], Moses R. Kamya[6], Grant Dorsey[7], Sarah G. Staedke[4]

[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]National Malaria Control Division, Ministry of Health, Kampala, Uganda, [3]Directorate of Public Health, Ministry of Health, Kampala, Uganda, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom, [6]Makerere University, Kampala, Uganda, [7]University of California San Francisco, San Francisco, CA, United States

9:15 a.m.

7200

REDUCING MALARIA TRANSMISSION IN FOREST-GOING MOBILE AND MIGRANT POPULATIONS IN LAO PDR AND CAMBODIA: A STEPPED-WEDGE CLUSTER-RANDOMISED CONTROLLED TRIAL

Win Han Oo[1], Win Htike[1], Thet Lynn[2], Lun Sovanda[3], Paul A. Agius[4], May Chan Oo[1], Galau Naw Hkawng[1], Kaung Myat Thu[1], Aung Khine Zaw[1], Ei Phyu Htwe[1], Julia Cutts[1], Nick Scott[1], Ellen Kearney[1], Katherine O'Flatherty[1], Wang Bangyuan[5], Boualam Khamlome[6], Phoutnalong Vilay[6], Siv Sovannaroth[7], **Freya JI Fowkes**[1]

[1]Burnet Institute, Melbourne, Australia, [2]Health Poverty Action, Vientiane, Lao People's Democratic Republic, [3]Health Poverty Action, Phnom Penh, Cambodia, [4]Deakin University, Melbourne, Australia, [5]Health Poverty Action, London, United Kingdom, [6]Center of Malariology Parasitology and Entomology, Ministry of Health, Vientiane, Lao People's Democratic Republic, [7]National Center for Parasitology Entomology and Malaria Control, Ministry of Health, Phnom Penh, Cambodia

9:30 a.m.

7201

DO ATTRACTIVE TARGETED SUGAR BAIT (ATSB) STATIONS REDUCE MALARIA BURDEN IN ZAMBIA? FIRST RESULTS FROM A PHASE III COMMUNITY-RANDOMIZED EFFICACY TRIAL OF ATSB IN WESTERN PROVINCE, ZAMBIA

Ruth Ashton[1], Kochelani Saili[2], Chama Chishya[2], Handrinah Banda[2], Annie Arnzen[3], Chanda Chitoshi[2], John Chulu[2], Frank Ndalama[2], Titus Tobolo[2], Josh Yukich[1], Irene Kyomuhangi[1], Erica Orange[3], Kafula Silumbe[4], Busiku Hamainza[5], John Miller[4], Thom Eisele[1], Megan Littrell[6]

[1]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]PATH, Kaoma, Zambia, [3]PATH, Seattle, WA, United States, [4]PATH, Lusaka, Zambia, [5]National Malaria Elimination Centre, Lusaka, Zambia, [6]PATH, Washington, DC, United States

Symposium 149

Diseases, Conflict and Health Security: Accessing Conflict-Affected Populations for Disease Eradication and Elimination Through Peace and Health Approaches

Grand Hall J - Ballroom Level (East Tower)

Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The COVID-19 and Ebola pandemics exposed the fragility of many health systems around the world and exposed the need for improved global health security. Global health security is critical for the protection of populations from disease threats. However, without access to conflict-affected populations, improving global health security is not possible, resulting in already vulnerable populations being at greater risk for exposure to disease and death. The growing number and increasingly protracted and complex nature of conflicts has necessitated the development of equally complex solutions, even while resources to tackle these issues are limited. In certain conflicts, humanitarian, economic, and public health challenges may be shared concerns of civilians, governments, and armed actors, thereby allowing for groups that would not normally interact to find common ground. This symposium will focus on the importance of multisectoral collaboration between peace and health in the context of global health security, and how lessons learned can be applied to similar regional contexts. Examples of public health interventions to explore practical approaches, academic methodologies, and policy recommendations to address challenges in conflict-affected populations and strengthen global health security will be presented. In Libya, health systems functions and financing have been negatively impacted by civil unrest. The ability and success of working at the subnational level for a whole-of-country approach to strengthen zoonotic detection and response capacities will be discussed. In Iraq, a multi-year engagement focused on building consensus and formalizing networks and policies for implementation of the International Health Regulations has proven a successful mechanism. In Liberia, while most of the population was still attempting to manage the emotional and psychological consequences of war in the context of post-conflict vulnerability, they were faced with the Ebola Virus Disease outbreak from 2014-2016 and the COVID-19 pandemic in 2020. The prominent psychosocial impacts of these diseases underscored Liberia's need for strengthened mental health services for young people. In Sudan, conflict in Blue Nile state along Sudan's southern border has made it challenging to provide health services to the region. Mediation efforts are currently on-going to discuss ways of providing health services through a cross-border partnership between Sudan and South Sudan. In Mali, results from a 2022 baseline survey conducted before conflict mitigation activities were initiated as part of a "Peace through Health" initiative will be shared along with recommendations on how to monitor and evaluate conflict resolution initiatives that include health components.

CHAIR

Angelia M. Sanders
The Carter Center, Atlanta, GA, United States

8 a.m.
INTRODUCTION

8:05 a.m.
CAN GLOBAL HEALTH SECURITY BE ACHIEVED WITHOUT ACCESS TO CONFLICT-AFFECTED POPULATIONS?

Erin Sorrell
Johns Hopkins: Center for Health Security and Bloomberg School of Public Health, Baltimore, MD, United States

8:20 a.m.
AN INTEGRATED APPROACH TO PEACEBUILDING AND GLOBAL HEALTH: A MODEL IN CENTRAL MALI

Frederic Deycard
The Carter Center, Atlanta, GA, United States

8:35 a.m.
ACCESSING THE "INACCESSIBLE" IN SUDAN

Sara Lavinia Brair
The Carter Center, Khartoum, Sudan

8:50 a.m.
THE ROLE OF MENTAL HEALTH AND PSYCHOSOCIAL SUPPORT IN BOOSTING PANDEMIC PREPAREDNESS AND RESPONSE

Samhita Kumar
The Carter Center, Atlanta, GA, United States

9:05 a.m.

GLOBAL HEALTH SECURITY AND HEALTH SYSTEMS- THE IMPORTANCE OF MULTISECTORAL APPROACHES IN STRENGTHENING NATIONAL HEALTH EMERGENCY PREPAREDNESS CAPACITIES

Stella Chungong
World Health Organization, Geneva, Switzerland

Scientific Session 150

LIVE STREAMING

Malaria - Insights into Malaria Pathogenesis

Grand Ballroom CDEF - Ballroom Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR

Miranda Oakley
FDA, Silver Spring, MD, United States

Sukai Ceesay
Max Planck Institute for Infection Biology, Berlin, Germany

8 a.m. 7202

MULTIPLE *PLASMODIUM FALCIPARUM* EARLY TRANSCRIBED MEMBRANE PROTEIN FAMILY MEMBERS ARE DIFFERENTIALLY EXPRESSED IN PEDIATRIC PATIENTS WITH SEVERE MALARIAL ANEMIA

Perez K. Olewe[1], Qiuying Cheng[2], Clinton O. Onyango[3], Samuel B. Anyona[3], Ivy J. Hurwitz[2], Sarah Kituyi[4], Evans Raballah[5], Beauty Kolade[6], Philip D. Seidenberg[7], Kristan A. Schneider[8], Christophe G. Lamber[2], Ananias A. Escalante[9], Collins Ouma[3], Benjamin H. McMahon[10], Douglas J. Perkins[2]
[1]Jaramogi Oginga Odinga University of Science and Technology, Bondo, Kenya, Bondo, Kenya, [2]University of New Mexico, Center for Global Health, Department of Internal Medicine, Albuquerque, NM, United States, [3]Maseno University, Kisumu, Kenya, [4]University of Embu, Embu, Kenya, [5]Masinde Muliro University of Science and Technology, Kakamega, Kenya, [6]Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, USA, Los Alamos, NM, United States, [7]University of New Mexico, Department of Emergency Medicine, Albuquerque, NM, United States, [8]Department of Applied Computer and Biosciences, University of Applied Sciences Mittweida, Technikumplatz, Mittweida, Germany, [9]Biology Department/Institute of Genomics and Evolutionary Medicine (iGEM), Temple University, Philadelphia, PA, USA, Philadelphia, PA, United States, [10]Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, USA., Los Alamos, NM, United States

8:15 a.m. 7203

PROTEOMICS ANALYSIS REVEALS ALTERED HOST PATHWAYS SPECIFIC TO SEVERE MALARIA IN BENINESE CHILDREN.

Jérémy Fraering[1], Virginie Salnot[2], Sem Ezinmegnon[1], Nadine Fievet[1], Jules Alao[3], Katell Peoc'h[4], Florence Migot-Nabias[1], Nicolas Argy[1], Emilie-Fleur Gautier[5], Gwladys Bertin[1], Claire Kamaliddin[6]
[1]IRD - UMR 261 - MERIT, Paris, France, [2]Proteom'IC platform, Paris, France, [3]Service de Pédiatrie Chumel Hospital, Cotonou, Benin, [4]Bichat Hospital - Biochemistry department, Paris, France, [5]Proteom'IC Platform, Paris, France, [6]Cumming School of Medicine - University of Calgary, Calgary, AB, Canada

8:30 a.m. 7204

ROLE OF *P. FALCIPARUM* HEMOZOIN-ASSOCIATED BIOMOLECULES IN THE PATHOGENESIS OF CEREBRAL MALARIA

Kelly A. Crotty, Ana Rodriguez
NYU School of Medicine, New York, NY, United States

8:45 a.m. 7205

EXPRESSION PROFILES OF DBLA DOMAINS OF VAR GENES FROM *PLASMODIUM FALCIPARUM* PARASITES CAUSING CLINICAL MALARIA OR PROMOTING ASYMPTOMATIC INFECTIONS

Sukai Ceesay[1], Martin Kampmann[1], Helle Smedegaard Hansson[2], Rasmus Weisel Jensen[2], Manuela Carrasquilla[1], Safiatou Doumbo[3], Usama Dabbas[1], Hamidou Cisse[3], Didier Doumtabe[3], Aissata Ongoiba[3], Kassoum Kayentao[3], Boubacar Traore[3], Peter D Crompton[4], Thomas Lavstsen[2], Silvia Portugal[1]
[1]Max Planck Institute for Infection Biology, Berlin, Germany, [2]Centre for Medical Parasitology, University of Copenhagen, Copenhagen, Denmark, [3]Mali International Center of Excellence in Research, University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, [4]Laboratory of Immunogenetics, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

9 a.m. 7206

ELEVATED URIC ACID PREDICTS MORTALITY AND COGNITIVE IMPAIRMENT IN UGANDAN CHILDREN WITH SEVERE MALARIA

Caitlin A. Bond[1], Dibyadyuti Datta[1], Ruth Namazzi[2], Robert O. Opoka[2], Anthony Batte[2], Kavitha M. Udumula[1], Deepali Balasubramani[1], Ana Rodriguez[3], Tarek M. El-Achkar[1], Chandy C. John[1], Andrea L. Conroy[1]
[1]Indiana University School of Medicine, Indianapolis, IN, United States, [2]Makerere University College of Health Sciences, Kampala, Uganda, [3]New York University School of Medicine, New York, NY, United States

9:15 a.m. 7207

CONSERVED SUBGROUPS OF *PLASMODIUM FALCIPARUM* RIFIN ANTIGENS PREDOMINATE IN CEREBRAL MALARIA CASES FROM MALI AND MALAWI

Jonathan Lawton[1], Albert E. Zhou[1], Drissa Coulibaly[2], Emily M. Stucke[1], Rafal Sobota[1], Savy M. Sebastian[1], Bryan Cummings[1], Ankit Dwivedi[1], Antoine Dara[1], James B. Munro[1], Abdoulaye K. Koné[2], Karim Traoré[2], Bouréima Guindo[2], Bourama Tangara[2], Amadou Niangaly[2], Modibo Daou[2], Issa Diarra[2], Youssouf Tolo[2], Mody Sissoko[2], Matthew B. Laurens[1], Amed Ouattara[1], Bourema Kouriba[2], Ogobara K. Doumbo[2], Shannon Takala-Harrison[1], Christopher V. Plowe[1], Don P. Mathanga[3], Terrie E. Taylor[4], Joana C. Silva[1], Mahamadou A. Thera[2], Karl B. Seydel[4], Mark A. Travassos[1]
[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]University of Sciences, Techniques and Technologies, Bamako, Mali, [3]Kamuzu University of Health Sciences, Blantyre, Malawi, [4]Michigan State University, East Lansing, MI, United States

9:30 a.m. 7208

STOOL MICROBIOME IN UGANDAN CHILDREN IS ASSOCIATED WITH DIFFERENTIAL MALARIA OUTCOMES

Olivia J. Bednarski
IUSM, Indianapolis, IN, United States

Symposium 151

Overcoming the Challenges of PC-NTD Hotspots

Grand Hall K - Ballroom Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Mass drug administration (MDA) is the main approach for neglected tropical diseases (NTDs) control. In some locations, however, prevalence does not decline as expected, termed "hotspots". The initial question is whether this is due to programmatic issues, such as poor treatment coverage, or underlying epidemiological factors driving the force of infection. Treatment coverage (target population who receive MDA) is a common evaluation metric, but few examine individual compliance

(swallowing of drugs) over multiple rounds of MDA. Systematic non-compliers, who persistently refuse or do not ingest medication over multiple years of MDA, can serve as a continued source of infection. Individual anthelmintic compliance patterns were recorded over five rounds of community-wide MDA targeting soil-transmitted helminths in southern Ethiopia using unique biometric identifiers (fingerprint) to determine if compliance is random or systematic over time. Following at least ten years of effective schistosomiasis (SCH) MDA, impact assessments have been conducted across West Africa. An analysis was conducted to understand which factors were associated with persistent hotspots including baseline prevalence/intensity, MDA coverage (reported and validated), and attitudes toward SCH transmission and treatment. Bayesian geostatistical models were fitted to identify SCH hotspots at fine spatial scales. Elimination of lymphatic filariasis as a public health problem requires a minimum of five effective rounds of MDA, after which a pre-transmission assessment survey (pre-TAS) is conducted. Once a pre-TAS is passed (1% microfilaremia or <2% antigenemia), a TAS is then carried out to determine whether MDA can cease. TAS are conducted another two times with two years between each survey before an elimination is considered. If the pre-TAS threshold is not achieved, these areas are labelled as "hotspots". Here we present analysis of epidemiological and programmatic (MDA coverage) factors associated with failed pre-TAS across five West African countries to identify determinants associated with hotspots compared with districts that met the stop-MDA criterion. In trachoma elimination programs, there is a need to identify areas at high risk of persistent and/or recrudescent active trachoma within and between endemic Evaluation Units (EUs) to ensure countries reach and maintain elimination targets. Geospatial techniques can identify areas of an EU that may still have high trachoma prevalence (hotspot) even if, on average, the EU is below the elimination threshold of <5% trachomatous inflammation—follicular in children aged 1–9 years (TF1–9). This presentation will illustrate geospatial analysis tools to identify persistent trachoma hotspots in Tanzania and Uganda.

CHAIR

Anna E. Phillips
FHI360, Washington, DC, United States

Upendo J. Mwingira
RTI, Washington, DC, United States

8 a.m.
INTRODUCTION

8:10 a.m.
PATTERNS OF INDIVIDUAL COMPLIANCE TO ANTHELMINTIC TREATMENT FOR SOIL- TRANSMITTED HELMINTHS IN SOUTHERN ETHIOPIA OVER MANY ROUNDS OF MASS DRUG ADMINISTRATION

Rosie Maddren
Imperial College, London, United Kingdom

8:35 a.m.
SCHISTOSOMIASIS HOTSPOTS: DEFINING AREAS OF HIGH-RISK THROUGH MICRO-MAPPING IN WEST AFRICA

Anna Elizabeth Phillips
FHI360, Washington, DC, United States

9 a.m.
OVERCOMING HOTSPOTS FOR LYMPHATIC FILARIASIS IN GHANA AND POTENTIAL STRATEGIES FOR STRENGTHENING SURVEILLANCE

Ernest K O. Mensah
FHI 360, Accra, Ghana

9:25 a.m.
TRACHOMA IMPACT & SURVEILLANCE– LESSONS LEARNED FROM SURVEY FAILURES

Clara Burgert
RTI, Washington, DC, United States

Symposium 152

Regulatory Principles for Vaccine Development Against Global Infectious Diseases: U.S. FDA Perspective

Grand Hall L - Ballroom Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

The development of safe and effective vaccines for global infectious diseases is of critical public health importance. The United States Food and Drug Administration (U.S. FDA) can license vaccines to protect against infectious diseases or conditions that are not endemic in the U.S., and clinical data obtained outside the U.S. may potentially be used to support an investigational new drug application or application for marketing approval in the U.S. Additionally, the U.S. FDA has incentive programs to encourage development of qualifying products for prevention and treatment of certain tropical diseases. Biomarkers can potentially support vaccine development for these tropical diseases by facilitating the evaluation of vaccines in clinical trials. Irrespective of whether a disease is endemic in the U.S. or not, the regulatory pathways to U.S. licensure for vaccine development to protect against infectious diseases are the same. This Symposium will help participants understand how to navigate regulatory pathways for the development of vaccines. Specifically, speakers will reference key U.S. FDA guidance to help participants learn about the following: 1. Regulatory review processes for vaccines intended for global infectious diseases; 2. Various expedited program designations available to encourage development of qualifying products; 3. The biomarker detection assay qualification process and differences from assay validation; and 4. Regulatory approach to enhancing diversity in clinical trial populations. Participants will have the opportunity to pose questions directly to individuals involved in day-to-day regulatory work in global infectious diseases at the U.S. FDA.

CHAIR

Sheral S. Patel
U.S. Food & Drug Administration, Silver Spring, MD, United States

Heather J. Painter
U.S. Food & Drug Administration, Silver Spring, MD, United States

8 a.m.
INTRODUCTION

8:10 a.m.
REGULATORY REVIEW PROCESS FOR VACCINES INTENDED FOR GLOBAL INFECTIOUS DISEASES
Sudhakar Agnihothram
U.S. Food & Drug Administration, Silver Spring, MD, United States

8:30 a.m.
VARIOUS EXPEDITED PROGRAM DESIGNATIONS AVAILABLE TO ENCOURAGE DEVELOPMENT OF QUALIFYING PRODUCTS
Kirk Prutzman
U.S. Food & Drug Administration, Silver Spring, MD, United States

8:50 a.m.
REGULATORY APPROACHES TO ENHANCING DIVERSITY IN CLINICAL TRIAL POPULATIONS
Ihid Carneiro Leao
U.S. Food & Drug Administration, Silver Spring, MD, United States

9:10 a.m.
BIOMARKER QUALIFICATION PROCESS AND DIFFERENCES FROM ASSAY VALIDATION
Heather J. Painter
U.S. Food & Drug Administration, Silver Spring, MD, United States

Scientific Session 153

Mosquitoes- Molecular Biology, Population Genetics and Genomics

Plaza Ballroom - Lobby Level (East Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Renee Ali
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States
Maria V. Sharakhova
Virginia Tech, Blacksburg, VA, United States

8 a.m. **7209**

PROJECT "HEMOGLOW": THE DEVELOPMENT OF GENETIC TOOLS FOR THE STUDY OF MOSQUITO HEMOCYTES
George-Rafael Samantsidis, **Ryan C. Smith**
Iowa State University, Ames, IA, United States

8:15 a.m. **7210**

SCALED PRODUCTION OF A FEMALE-SPECIFIC LARVICIDAL YEAST DIET TO FACILITATE MASS-REARING OF MALE MOSQUITOES
Teresia Njoroge[1], Corey Brizzee[2], Jack Crawford[2], Keshava Mysore[1], Molly Duman-Scheel[1]
[1]Indiana University School of Medicine, South Bend, IN, United States, [2]DeMeetra AgBio, Lexington, KY, United States

8:30 a.m. **7211**

CHARACTERIZATION OF THE MOSQUITO SPOROZOITE-ASSOCIATED SALIVA PROTEINS, TWO POTENTIAL MALARIA PARASITE TRANSMISSION-BLOCKING TARGETS
Yuemei Dong[1], Emilia C. Cuccurullo[1], Caire Barreto[1], Yu-Min Chuang[2], Erol Fikrig[2], George Dimopolous[1]
[1]Johns Hopkins School of Public Health, Baltimore, MD, United States, [2]Yale University School of Medicine, New Haven, CT, United States

8:45 a.m. **7212**

CHROMOSOMAL INVERSIONS IN *AEDES AEGYPTI* ARE ASSOCIATED WITH GEOGRAPHICAL ORIGIN, BEHAVIOR, AND RESISTANCE TO PATHOGENS
Jiangtao Liang[1], Ilya I. Brusentsov[1], Varvara Lukyanchikova[1], Noah Rose[2], Dmitry A. Karagodin[3], Zhijian Tu[1], Carolyn McBride[4], **Maria V. Sharakhova**[1]
[1]Virginia Tech, Blacksburg, VA, United States, [2]University of California, San Diego, CA, United States, [3]Institute of Cytology and Genetics, Novosibirsk, Russian Federation, [4]Princeton University, Princeton, NJ, United States

9 a.m. **7213**

TARGETING *PLASMODIUM* IN THE MOSQUITO VECTOR: VULNERABILITIES AND OPPORTUNITIES FOR MALARIA CONTROL
George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

9:15 a.m. **7214**

FUNCTIONAL GENOMIC ANALYSIS OF TRANSCRIPTIONAL ENHANCERS IN THE MALARIA VECTOR *ANOPHELES* COLUZZII
Natalia M. Zmarlak[1], Karin Eiglmeier[1], Inge Holm[1], Kimani Njoya[2], Cameron Anderson[2], Michelle M. Riehle[2], Kenneth D. Vernick[1]
[1]Institut Pasteur, Paris, France, [2]Medical College of Wisconsin, Milwaukee, WI, United States

9:30 a.m. **7215**

PREMONITION BARCODE: USING THE MITOGENOME FOR MOSQUITO SPECIES IDENTIFICATION AND SURVEILLANCE
Renee Ali[1], Christian H. Gauthier[2], Kevin Pritts[3], Bret Nash[3], Jeremy Verde[3], Hengameh Rezaei[3], Miguel A. Saldaña[3], James Pipas[2], Ethan Jackson[4], Mike Reddy[4], Douglas E. Norris[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]University of Pittsburg, Pittsburg, PA, United States, [3]Harris County Public Health, Houston, TX, United States, [4]Microsoft, Redmon, WA, United States

Scientific Session 154

Malaria - Genomics: Sharpening Tools to Guide Interventions and Uncover Biology

Crystal Ballroom A - Lobby Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Shannon Takala Harrison
University of Maryland School of Medicine, Baltimore, MD, United States
William Hamilton
Wellcome Sanger Institute, Cambridge, United Kingdom

8 a.m.

7216

AGE AND PARASITEMIA EXPLAIN MOST OF THE VARIATION IN HOST AND PARASITE GENE EXPRESSION AMONG MALIAN CHILDREN INFECTED WITH *P. FALCIPARUM*

Kieran Tebben[1], Salif Yirampo[2], Drissa Coulibaly[2], Abdoulaye K. Koné[2], Matthew B. Laurens[1], Emily M. Stucke[1], Ahmadou Dembélé[3], Youssouf Tolo[2], Karim Traoré[2], Amadou Niangaly[2], Andrea A. Berry[1], Bourema Kouriba[2], Christopher V. Plowe[1], Ogobara K. Doumbo[2], Kirsten E. Lyke[1], Shannon Takala-Harrison[1], Mahamadou A. Thera[2], Mark A. Travassos[1], David Serre[1]
[1]University of Maryland, Baltimore, Baltimore, MD, United States, [2]Malaria Research and Training Center (MRTC), Université des Sciences, des Techniques et des Technologies de Bamako, Bamako, Mali, [3]Malaria Research and Training Center (MRTC), Université des Sciences, des Techniques et des Technologies de Bamako, Bamako, Mali, Bamako, Mali

8:15 a.m.

7217

A FOURTH LOCUS IN THE *PLASMODIUM FALCIPARUM* GENOME ASSOCIATED WITH SICKLE HEMOGLOBIN

William L. Hamilton[1], Gavin Band[2], Eleanor Drury[1], Christen Smith[1], Sónia Gonçalves[1], Kirk Rockett[2], Dominic P. Kwiatkowski[1], Lucas N. Amenga-Etego[3]
[1]Wellcome Sanger Institute, Cambridge, United Kingdom, [2]Wellcome Centre for Human Genetics, Oxford, United Kingdom, [3]West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), Accra, Ghana

8:30 a.m.

7218

MALARIA PARASITE RELATEDNESS IS UNDERESTIMATED WHEN USING SPARSE MARKER DATA FROM INBRED POPULATIONS

Somya Mehra[1], Daniel E. Neafsey[2], Aimee R. Taylor[3]
[1]University of Melbourne, Parkville, Australia, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [3]Institut Pasteur, Paris, France

8:45 a.m.

7219

MODELING THE EFFECTIVENESS OF GENOMIC SURVEILLANCE AT DETECTING GENETICALLY DISTINCT MALARIA PARASITES POPULATIONS

Alex Ferris, Jessica Ribado, Albert Lee, Joshua Proctor
Institute for Disease Modeling, Seattle, WA, United States

9 a.m.

7220

MEASURING CHANGES IN *PLASMODIUM FALCIPARUM* POPULATION SIZE AND STRUCTURE IN RESPONSE TO SEQUENTIAL MALARIA CONTROL INTERVENTIONS

Kathryn E. Tiedje[1], Qi Zhan[2], Shazia Ruybal-Pésantez[1], Gerry Tonkin-Hill[1], Qixin He[2], Mun Hua Tan[1], Dionne C. Argyropoulos[1], Samantha L. Deed[1], Anita Ghansah[3], Abraham R. Oduro[4], Kwadwo A. Koram[3], Mercedes Pascual[2], **Karen P. Day**[1]
[1]The University of Melbourne, Melbourne, Australia, [2]The University of Chicago, Chicago, IL, United States, [3]Noguchi Memorial Institute for Medical Research, Legon, Ghana, [4]Navrongo Health Research Centre, Ghana Health Service, Navrongo, Ghana

9:15 a.m.

7221

UNRAVELLING *PLASMODIUM FALCIPARUM* GENETIC DIVERSITY USING TARGETED AMPLICON DEEP SEQUENCING TO GUIDE ELIMINATION INTERVENTIONS IN SOUTH AFRICA

Hazel Beverly Gwarinda[1], Andres Aranda-Diaz[2], Bryan Greenhouse[2], Jaishree Raman[1]
[1]National Institute for Communicable Diseases, Johannesburg, South Africa, [2]University of California San Francisco, San Francisco, CA, United States

9:30 a.m.

Lightning Talks

(Lightning Talks are two-minute talks to highlight abstracts assigned to poster presentations.)

5438

GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* AND TRANSMISSION PATTERNS IN FOREST-GOING POPULATIONS IN SOUTHERN LAO PDR

Ying-An Angie Chen[1], Francois Rerolle[2], Eric Vickers[3], Emily Dantzer[2], Bouasy Hongvanthong[4], Andrew Lover[5], Hsiao-Han Chang[1], Adam Bennett[6], Bryan Greenhouse[3]
[1]Institute of Bioinformatics and Structural Biology, College of Life Sciences and Medicine, National Tsing Hua University, Hsinchu, Taiwan, [2]Malaria Elimination Initiative, The Global Health Group, University of California, San Francisco, San Francisco, CA, United States, [3]EPPIcenter Research Program, Division of HIV, Infectious Diseases and Global Medicine, Department of Medicine, University of California, San Francisco, San Francisco, CA, United States, [4]Center for Malariology, Parasitology and Entomology, Ministry of Health, Vientiane, Lao People's Democratic Republic, [5]Department of Biostatistics and Epidemiology, School of Public Health and Health Sciences, University of Massachusetts Amherst, Amherst, MA, United States, [6]PATH, Seatle, WA, United States

5448

INCREASED FREQUENCY OF PFHRP2-DELETED *PLASMODIUM FALCIPARUM* IN THE PERUVIAN AMAZON IS NOT EXPLAINED BY SELECTION OF THE GENE DELETION

Erick Figueroa-Ildefonso[1], Hugo Valdivia[2], Eline Kattenberg[3], Christopher Delgado-Ratto[4], Anna Rosanas-Urgell[3], Dionicia Gamboa[5]
[1]Laboratorio de Malaria: Parasitos y Vectores, Facultad de Ciencias y Filosofia, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]U.S. Naval Medical Research Unit No. 6 (NAMRU-6), Lima, Peru, [3]Department of Biomedical Sciences, Institute of Tropical Medicine Antwerp, Antwerp, Belgium, [4]Global Health Institute, University of Antwerp, Antwerp, Belgium, [5]Laboratorio de Malaria: Parasitos y Vectores, Facultad de Ciencias y Filosofia, Universidad Peruana Cayetano Heredia and Instituto de Medicina Tropical "Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, Lima, Peru

6864

RECURRENT DE NOVO MUTATION CONTRIBUTES TO DRUG RESISTANCE EVOLUTION IN *PLASMODIUM FALCIPARUM*

Angela M. Early[1], Horace Cox[2], Reza Niles-Robin[2], Stéphane Pelleau[3], Célia Florimond[3], Margaret A. Laws[4], Benoît de Thoisy[3], Lise Musset[3], Daniel E. Neafsey[4]
[1]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [2]Ministry of Health, Georgetown, Guyana, [3]Institut Pasteur de la Guyane, Cayenne, French Guiana, [4]Harvard T.H. Chan School of Public Health, Boston, MA, United States

6155

BENCHMARKING IDENTITY-BY-DESCENT CALLERS FOR *PLASMODIUM FALCIPARUM*

Bing Guo[1], Michele Spring[2], Mariusz Wojnarski[2], Brian A. Vesely[2], Joana Carneiro Da Silva[1], Norman C. Waters[2], Shannon Takala-Harrison[3], Timothy D. O'Connor[1]
[1]Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [3]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

6879

BUZZWORTHY: NOVEL HIVE SEQUENCING TECHNOLOGY MAKES SINGLE-CELL SEQUENCING POSSIBLE FOR MALARIA FIELD ISOLATES

Erin Sauve, Pieter Guetens, Pieter Monsieurs, Johanna Helena Kattenberg, Anna Rosanas-Urgell
Institute of Tropical Medicine Antwerp, Antwerp, Belgium

Symposium 155

Countering the Wicked Problem of Bad Quality Medicines

Crystal Ballroom B - Lobby Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

This symposium brings together researchers who study the recalcitrant problem of bad quality medicines. The quality of medicines and medical products is a key determinant of clinical care outcomes, yet in 2017, the World Health Organization estimated [WHO 2017] that about one in ten pharmaceuticals sold in low- and middle-income countries failed to meet quality standards. These problems impact every therapeutic category of pharmaceuticals and extend to medical products such as vaccines and rapid diagnostic tests. Regulatory agencies, medical practitioners, donors, and principled manufacturers share a common interest in detecting bad quality products and removing them from markets in LMICs. Six years and a global pandemic later, how many bad quality products are still present in LMIC markets, what is their impact on health, and how can they be discovered and removed? Because the problem of bad quality medicines is concentrated in LMICs and global enforcement activities are relatively weak, regulatory agencies in LMICs are the front line organizations responsible for exposing and controlling bad quality medical products, and LMIC researchers play vital roles in testing medicines and medical products. A series of talks will introduce methods for modeling the impacts of substandard and falsified medicines, recent data about the prevalence of poor quality antimicrobials and chemotherapy products, and new tools for facilitating medicine quality surveys and testing the quality of vaccines. Field screening technologies are an important part of the post-market surveillance strategy in many LMICs. Regulatory agency respondents in 9 out of 10 countries surveyed by Roth et al. [Roth 2018] agreed with the cost-saving arguments for field screening of pharmaceuticals. However, most of the respondents misunderstood the capabilities of current chemical and spectroscopic screening technologies. These technologies are developing rapidly and have great potential as weapons against SFPs, but there are still many evidence gaps and it is difficult for regulators to compare the effectiveness, usability, and costs of different technologies. The Chairs will sponsor a booth at the Exhibit Hall for participants to try out a variety of field screening instruments, such as portable spectrophotometers, that are used to detect low-quality pharmaceuticals in field settings. This booth is not sponsored or supported by instrument manufacturers.

CHAIR

Marya Lieberman
University of Notre Dame, Notre Dame, IN, United States

Paul Newton
Medicine Quality Research Group, Centre for Tropical Medicine & Global Health, University of Oxford, UK, Oxford, United Kingdom

8 a.m.
INTRODUCTION

8:10 a.m.
MODELING THE ECONOMIC AND CLINICAL IMPACT OF SUBSTANDARD AND FALSIFIED DRUGS
Sachiko Ozawa
University of North Carolina Eshelman School of Pharmacy, Chapel Hill, NC, United States

8:30 a.m.
AN APP (EPIONE) FOR FACILITATING MEDICINE QUALITY SURVEYS
Céline Caillet
University of Oxford-MORU Tropical Health Network/Infectious Diseases Data Observatory, Vientiane, Lao People's Democratic Republic

8:50 a.m.
ABACUS2-MQ SURVEY OF THE QUALITY OF ANTIBIOTICS IN FOUR COUNTRIES
Noudy Sengxeu
University of Limoges, Limoges, France

9:10 a.m.
QUALITY OF CHEMOTHERAPY DRUGS IN ETHIOPIA
Ayenew Ashenef
Addis Ababa University–Department of Pharmaceutical Chemistry and Pharmacognosy, Addis Ababa, Ethiopia

9:30 a.m.
EVALUATION OF DEVICES FOR DETECTING SUBSTANDARD AND FALSIFIED VACCINES IN SUPPLY CHAINS
Paul Newton
Mahosot Hospital, Vientiane, Lao People's Democratic Republic

Symposium 156

Challenges and Solutions to Meet Sporadic Outbreaks of Deadly Pathogens in Resource - Limited Settings

Regency Ballroom A - Ballroom Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

This session does not carry CME credit.

Deadly pathogens, such as Ebola viruses, leading to devastating outbreaks with high mortality, have a serious impact on the affected communities and further weaken health care systems in resource-limited settings. In case of Ebola virus disease (EVD), the next outbreak location and timing remains uncertain. It is therefore crucial to prepare the regulatory environment of at risk countries and ensure epidemic preparedness. Within EBOVAC3 the regulatory preparedness of Guinea, Sierra Leone and the Democratic Republic of the Congo (DRC) were assessed. As well as the community's understanding, expectations, acceptance of various vaccine strategies and community impressions and preparedness for the next outbreak. In the context of epidemic preparedness, the importance of prophylactic vaccination in at risk populations is highly crucial in periods when there is no outbreak. One vaccine trial within the EBOVAC3 consortium therefore combined epidemic preparedness with the assessment of vaccine durability through the vaccination of healthcare providers and

frontliners (an at risk population) in an Ebola endemic region within the DRC. This was achieved by administering booster doses one or two years after initial vaccination and assessing the anamnestic response as a surrogate response to an actual virus infection. While vaccinating at risk populations is crucial, identifying the vaccine response in the most vulnerable populations (e.g. infants) is equally important. Therefore, a second trial in Guinea and In Sierra Leone assessed the safety and immunogenicity in this population. Finally, in order to be prepared for the next outbreak, it is important to assess the durability of the administered vaccines. Therefore, the third trial in Sierra Leone within EBOVAC3 looked into the long-term durability of the vaccine regimen in children, adolescents and adults. The vaccine responses collected during past and current EBOVAC projects, have been combined into within-host models to further assess their durability and potential. How this information was combined into these models and how it can be used to help guide vaccine development will be explained. For EVD, a prophylactic vaccine (regimen) could play a crucial role in epidemic preparedness. Therefore, the final speaker will present the development path of the Janssen vaccine up to licensure and WHO prequalification, just before the symposium will be broadened again through an expert panel discussion that will address questions on challenges, solutions and lessons learned and how to meet sporadic outbreaks of deadly pathogens in resource-limited settings.

CHAIR

Jean-Pierre Van geertruyden
University of Antwerp, Antwerp, Belgium

8 a.m.
INTRODUCTION

8:05 a.m.
REGULATORY PREPAREDNESS FOR THE NEXT OUTBREAK IN LMICS AND THE COMMUNITY'S UNDERSTANDING, EXPECTATIONS AND ACCEPTANCE
Shelley Lees
London School of Hygiene & Tropical Medicine, London, United Kingdom

8:20 a.m.
EPIDEMIC PREPAREDNESS THROUGH THE ASSESSMENT OF VACCINE DURABILITY IN AN ENDEMIC REGION AND AN AT RISK POPULATION (E.G. HEALTH CARE PROVIDERS AND FRONTLINERS) IN THE DRC
Hypolite Mavoko-Muhindo
University of Kinshasa, Kinshasa, Democratic Republic of the Congo

8:35 a.m.
VACCINE RESPONSE IN THE MOST VULNERABLE POPULATIONS (E.G. INFANTS) IN SIERRA LEONE AND GUINEA AND ITS DURABILITY IN CHILDREN, ADOLESCENTS AND ADULTS IN SIERRA LEONE
Bailah M.A. Leigh
College of Medicine & Allied Health Sciences, Freetown, Sierra Leone

8:50 a.m.
THE USE OF MATHEMATICAL MODELLING FOR VACCINE DEVELOPMENT: THE EXAMPLE OF EBOLA
Edouard Lhomme
ISPED - University of Bordeaux, Bordeaux, France

9:05 a.m.
DEVELOPMENT PATH OF THE JANSSEN VACCINE UP TO LICENSURE AND WHO PREQUALIFICATION
Cynthia B. Robinson
Janssen Vaccines & Prevention, B. V., Leiden, Netherlands

9:20 a.m.
PANELIST
Gerald Voss
CEPI, Oslo, Norway

9:35 a.m.
MODERATOR, PANEL DISCUSSION
Jean-Pierre Van geertruyden
University of Antwerp, Antwerp, Belgium

Symposium 157

Hot Topics in Clinical Mycobacteriology: New Strategies for Old Foes

Regency Ballroom B - Ballroom Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Mycobacterial infections are ubiquitous globally but are a challenging group of infections to diagnose and treat. In addition to the most famous Mycobacterium tuberculosis (MTB) other mycobacterial infections such as M. ulcerans (Buruli ulcer), M. leprae (lepromatosis), and the non-tuberculous mycobacteria (NTM) infections continue to cause a great deal of morbidity worldwide, particularly in tropical and subtropical regions. Significant challenges remain in the diagnosis of these infections in part due to their unique biology. Further, there remain gaps in knowledge about basic things like how M. leprae and M. ulcerans are transmitted to humans. As NTDs, leprosy and Buruli ulcer also suffer from lack of research funding and resources for control programs. Even for MTB, research in pediatric populations lags far behind that in adult populations despite high mortality and morbidity among children and adolescents with TB. However, despite these challenges, there have been exciting developments in the area of mycobacterial research, some that have already impacted the care of these infectious diseases, like new treatment regimens for NTM and advances in diagnosing MTB in non-respiratory specimens. Other advances, such as new tools for leprosy diagnosis, are on the horizon and hold promise to make significant impacts on both individuals and public health. If you are a clinician that treats infectious diseases, you won't want to miss this session!

CHAIR

Pranay Sinha
Boston University, Boston, MA, United States

Jessica K. Fairley
Emory University School of Medicine, Atlanta, GA, United States

8 a.m.
INTRODUCTION
Pranay Sinha
Boston Medical Center, Boston, MA, United States

8:15 a.m.
ADVANCES IN NON-RESPIRATORY DIAGNOSTICS FOR TUBERCULOSIS
Tania Thomas
University of Virginia, Charlottesville, VA, United States

8:35 a.m.
UPDATES IN THE DIAGNOSIS AND TREATMENT OF BURULI ULCER
Richard Odame Phillips
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

8:55 a.m.
FRONTIERS IN LEPROSY RESEARCH: THE QUEST FOR NEW DIAGNOSTIC TOOLS FOR LATENT AND CLINICAL INFECTION
Jessica K. Fairley
Emory University School of Medicine, Atlanta, GA, United States

9:15 a.m.
IMPROVING TREATMENT FOR NON-TUBERCULOUS MYCOBACTERIAL LUNG DISEASE
Scott K. Heysell
University of Virginia, Charlottesvilla, VA, United States

Scientific Session 158

Mosquitoes- Epidemiology and Vector Control I

Regency Ballroom C - Ballroom Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

CHAIR
Katherine L. Anders
Monash University, Melbourne, Australia

Alexander Dolnick Meyer
University of Notre Dame, Notre Dame, IN, United States

8 a.m. 7222

RISK AND SIZE OF AEDES-BORNE DISEASE OUTBREAKS ARE POORLY PREDICTED BY CLIMATE-BASED SUITABILITY INDICES
Alexander Dolnick Meyer[1], Sandra Mendoza Guerrero[2], Natalie E. Dean[3], Kathryn B. Anderson[4], Steven T. Stoddard[2], T. Alex Perkins[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]Emergent BioSolutions, Gaithersburg, MD, United States, [3]Emory University, Atlanta, GA, United States, [4]SUNY Upstate Medical University, Syracuse, NY, United States

8:15 a.m. 7223

REDUCED DENGUE INCIDENCE FOLLOWING LARGE-SCALE RELEASES AND ESTABLISHMENT OF WMEL WOLBACHIA IN *AEDES AEGYPTI* MOSQUITOES IN THREE COLOMBIAN CITIES
Ivan D. Velez[1], Maria Patricia Arbelaez[1], Simon C. Kutcher[2], Alexander Uribe[1], Luis Martinez[1], Jai A. Denton[2], Cameron P. Simmons[2], **Katherine L. Anders**[2], Peter A. Ryan[2], Scott L. O'Neill[2]
[1]World Mosquito Program, Universidad de Antioquia, Medellin, Colombia, [2]World Mosquito Program, Monash University, Melbourne, Australia

8:30 a.m. 7224

THE IMPACT OF INTEGRATED VECTOR MANAGEMENT ON THE INCIDENCE OF DENGUE IN URBAN MALAYSIA: THE IDEM CLUSTER-RANDOMIZED CONTROLLED TRIAL
Nurulhusna Ab Hamid[1], **Neal Alexander**[2], Tim Mölmann[3], Carole s Langlois-Jacque[4], Farah Diana Ariffin[1], Mad-Hélénie Elsensohn[4], Frederic Schmitt[5], Jason H. Richardson[6], Frederic Baur[7], Maxime Leduc[5], Norazman Bin Mohd Rosli[8], Nazni Wasi Ahmed[1], Muriel Rabilloud[4], Mitra Saadatian-Elahi[4]
[1]Medical Entomology Unit, Institute for Medical Research, WHO Collaborating Centre, Institute for Medical Research, Ministry of Health Malaysia, Kuala Lumpur, Malaysia, [2]MRC Tropical Epidemiology Group, Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine,, United Kingdom, United Kingdom, [3]In2Care, Wageningen, Netherlands, [4]Hospices Civils de Lyon, Lyon, France, [5]Environmental Science France - Envu, Lyon, France, [6]Innovative Vector Control Consortium (IVCC), Liverpool, United Kingdom, [7]Bayer, Lyon, France, [8]Vector Borne Disease Sector, Disease Control Division, Ministry of Health Malaysia, Kuala Lumpur, Malaysia

8:45 a.m. 7225

ASSESSING AUTO-DISSEMINATION STATIONS AS A CONTROL TOOL FOR *AEDES AEGYPTI* IN THE RIO GRANDE VALLEY, TEXAS, USA
Nicole Scavo[1], Jose Juarez[1], Nadia Fernandez-Santos[1], Ester Carbajal[1], Luis Chaves[2], Berlin Londono-Renteria[3], Alyssa Branca[4], John Borden[5], Mike Banfield[4], Gabriel Hamer[1]
[1]Texas A&M University, College Station, TX, United States, [2]Indiana University Bloomington, Bloomington, IN, United States, [3]Tulane University, New Orleans, LA, United States, [4]Banfield Bio, Woodinville, WA, United States, [5]JHB Consulting, Burnaby, BC, Canada

9 a.m. 7226

POOLING THE POOLS: REDUCING COSTS OF MOLECULAR ARBOVIRAL SURVEILLANCE WITHOUT LOSS OF SENSITIVITY IN DENGUE ENDEMIC AREAS
Joanelis Medina, Grayson Brown, Marla García, Julianne Miranda
Puerto Rico Vector Control Unit, San Juan, Puerto Rico

9:15 a.m. 7227

USE OF MACHINE LEARNING TO IDENTIFY NOVEL MOSQUITO AND TICK REPELLENTS
Marnix Vlot[1], Jennifer N. Wei[2], Martijn Vos[1], Rob Henderson[1], Benjamin Sanchez-Lengeling[2], Luuk Berning[1], Jessica Konijnenburg[1], Brian K. Lee[2], Wesley W. Qian[2], Richard C. Gerkin[2], Alexander B. Wiltschko[2], Koen Dechering[1]
[1]TropIQ Health Sciences, NIJMEGEN, Netherlands, [2]Google Research, Brain Team, Cambridge, MA, United States

9:30 a.m. 7228

CHROMOBACTERIUM SPECIES PANAMA (CSP_P) PELLET FORMULATIONS: A NOVEL BIO-LARVICIDE FOR MOSQUITO VECTOR CONTROL
Vandana Vandana, George Dimopoulos
John Hopkins University, Baltimore, MD, United States

Symposium 159

Emerging Data on How Best to Use Primaquine and Tafenoquine for the Radical Cure of *P. vivax*

Regency Ballroom D - Ballroom Level (West Tower)
Sunday, October 22, 8 a.m. - 9:45 a.m. U.S. Central Time Zone

Plasmodium vivax causes more than 4 million cases of malaria annually and represents an increasing proportion of malaria in many countries co-endemic with *P. falciparum*. Unlike *P. falciparum*,

radical cure of *P. vivax,* requires treatment of both the blood stage, which causes acute symptoms, and the dormant liver stage (hypnozoites), which reactivate and cause relapses weeks to months later. Relapsing vivax malaria results in a cumulative risk of anemia and is associated with direct and indirect morbidity and the potential for further transmission. For the last 60-70 years, *P. vivax* radical cure has generally included chloroquine (for the blood stage) and primaquine (for the liver stage). Primaquine has historically been given over 14 days, however, poor adherence and reduced effectiveness with this regimen have led to shorter courses being considered. Tafenoquine, is a primaquine analogue, which can be given as a single dose. Primaquine and tafenoquine are both 8-aminoquinolines and can cause severe hemolysis in patients with glucose-6-phosphate dehydrogenase (G6PD) deficiency. However, malaria also causes hemolysis and it is difficult to disentangle the hemolytic risk attributable to 8-aminoquinolines compared with malaria alone. Furthermore, the potential longer term hematological benefits of radical cure in preventing relapses remains unknown. Single - dose tafenoquine was registered by the US FDA and the Australian TGA in 2018 and has subsequently been registered in several endemic countries with further registrations pending. As this new tool emerges, it is fundamental to understand how best to roll it out in different health system contexts. This symposium will quantify the hematological risk-benefit trade-off of 8-aminoquinoline use, examine the use of methemoglobin to predict 8-aminoquinoline treatment efficacy and subsequent risk of relapse and release results of *in vitro* and *in vivo* work with primaquine and tafenoquine to better understand the results of a clinical trial where the efficacy of both primaquine and tafenoquine given together with dihydroartemisinin-piperaquine was sub-optimal. The final presentation of this symposium will be focused on the results of a real-world study carried out in Brazil (the Tafenoquine Roll-out STudy: TRuST) to assess the operational feasibility of providing appropriate *P. vivax* radical cure with either standard primaquine dosage or single dose tafenoquine after G6PD testing with a point-of-care quantitative G6PD test. The presentation will show the feasibility of implementing those new tools in different levels of health facilities.

CHAIR

Robert J. Commons
Menzies School of Health Research, Darwin, Australia

Stephan Duparc
Medicines for Malaria Venture, Geneva, Switzerland

8 a.m.
INTRODUCTION

8:10 a.m.
TRADE-OFF BETWEEN SHORT TERM HEMOLYTIC RISK AND LONG-TERM BENEFIT OF 8-AMINOQUINOLINE TREATMENT
Megha Rajasekhar
The University of Melbourne, Carlton, Australia

8:25 a.m.
IS THERE A WAY TO INDIVIDUALIZE *P. VIVAX* RADICAL CURE REGIMENS? METHEMOGLOBIN AS A MARKER OF ANTIRELAPSE EFFICACY
Ihsan Fadilah
Oxford University Clinical Research Unit Indonesia, Jakarta, Indonesia

8:40 a.m.
HOW *IN VITRO* AND *IN VIVO* VIVAX MALARIA MODELS CAN HELP US UNDERSTAND THE OUTCOME OF PAST CLINICAL STUDIES WITH TAFENOQUINE AND DESIGN THE NEXT SET OF STUDIES
Brice Campo
Medicines for Malaria Venture, Geneva, Switzerland

8:55 a.m.
THE TAFENOQUINE ROLL-OUT STUDY (TRUST): REAL-WORLD EVIDENCE ON FEASIBILITY OF PROVIDING APPROPRIATE *P. VIVAX* RADICAL CURE WITH TAFENOQUINE OR PRIMAQUINE AFTER G6PD TESTING IN THE BRAZILIAN AMAZON – FINAL RESULTS FROM A STUDY OF OVER 6000 PATIENTS
Marcus VG Lacerda
Fundação de Medicina Tropical Dr. Heitor Vieira Dourado, Manaus, Brazil

9:10 a.m.
MODERATOR, PANEL DISCUSSION
Robert J Commons
Menzies School of Health Research, Darwin, Australia

Coffee Break

Grand Ballroom Foyer - Ballroom Level (East Tower)
Sunday, October 22, 9:45 a.m. - 10:15 a.m. U.S. Central Time Zone

Plenary Session 160

LIVE STREAMING

Plenary Session V: Waging Peace, Fighting Disease, and Building Hope: A Tribute to President and Mrs. Carter

Grand Ballroom CDEF - Ballroom Level (East)
Sunday, October 22, 10:15 a.m. - 11:15 a.m. United States Central Time Zone

This session does not carry CME credit.

This session will be a tribute to President and Mrs. Carter and their work and contributions to Global Health and Development. Through this session you will learn more about the impact of the dedication, advocacy, and diplomacy that the Carters have undertaken as they have waged peace, fought disease, and built hope. In addition, you will learn more about both as people, from friends, family, and colleagues. We hope you will leave inspired and ready for action to support the health and well-being of all people around the world.

The session will open with comments from Kashef Ijaz of The Carter Center. This will be followed by a panel discussion on the life and works of President and Mrs. Carter facilitated by Julie Jacobson with Don Hopkins, Sarah Carter, Frank Richards, and two video tributes from Bill Foege and Tedros Ghebreyesus.

CHAIR

Julie Jacobson
Bridges to Development, Seattle, WA, United States

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

10:15 a.m.
OPENING REMARKS

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

10:25 a.m.
PANELISTS

Julie Jacobson
Bridges to Development, Seattle, WA, United States

Don Hopkins
The Carter Center, Atlanta, GA, United States

Sarah Carter
Science Policy Consulting LLC, Arlington, VA, United States

Frank Richards
The Carter Center, Atlanta, GA, United States

11:05 a.m.
VIDEO TRIBUTE

Tedros Adhanom Ghebreyesus
World Health Organization, Geneva, Switzerland

11:10 a.m.
VIDEO TRIBUTE

Bill Foege
Emory University, Atlanta, GA, United States

Break

Sunday, October 22, 11:15 a.m. - 11:30 a.m. U.S. Central Time Zone

Scientific Session 161

Global Health: Malaria and Neglected Tropical Diseases

Grand Ballroom A - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR
Richard Reithinger
RTI International, Washington, DC, United States

Joelle Rosser
Stanford University, Stanford, CA, United States

11:30 a.m.
PRESENTATION BY BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP RECIPIENT

7229

DRONES AND DENGUE: PILOTING THE USE OF UNMANNED AERIAL VEHICLES TO MAP TRASH DISTRIBUTION AND DENGUE VIRUS RISK IN RURAL AND URBAN KENYA

Joelle I. Rosser[1], Juliet T. Bramante[2], Andrew Chamberlin[1], Paul Sillah[3], Bryson Ndenga[4], Donal Bisanzio[5], Giulio DeLeo[1], Francis Mutuku[3], A. Desiree LaBeaud[1]
[1]Stanford University, Stanford, CA, United States, [2]University of Washington, Seattle, WA, United States, [3]Technical University of Mombasa, Mombasa, Kenya, [4]Kenya Medical Research Institute, Nairobi, Kenya, [5]RTI International, Washington, DC, United States

11:45 p.m.

7230

DENGUE, CHIKUNGUNYA, AND MALARIA IN KENYA; CO-EXPOSURE AND CO-INFECTION STATUS

Amna Tariq[1], Donal Bisanzio[2], Francis Mutuku[3], Bryson Ndenga[4], A. Desiree LaBeaud[1]
[1]Department of Pediatrics, Division of Infectious Diseases, Stanford University, Palo Alto, CA, United States, [2]RTI international, Washington, DC, United States, [3]Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, [4]Centre for Global Health Research, Medical Research Institute, Kisumu, Kenya

Noon

7231

INCREASING MALARIA CASES IN THAILAND'S WESTERN BORDER PROVINCES

Prayuth Sudathip[1], Sathapana Naowarat[2], Suravadee Kitchakarn[1], Deyer Gopinath[3], Rungrawee Tipmontree[1], Chantana Padungtod[1], Niparueradee Pinyajeerapat[4], David Sintasath[4], Jui A. Shah[2]
[1]Division of Vector Borne Diseases, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, [2]Inform Asia: USAID's Health Research Program, RTI International, Bangkok, Thailand, [3]World Health Organization, Nonthaburi, Thailand, [4]U.S. President's Malaria Initiative, United States Agency for International Development (USAID), Regional Development Mission for Asia, Bangkok, Thailand

12:15 p.m.

7232

TRANSLATING CONTINUOUSLY COLLECTED ANTENATAL CARE MALARIA PREVALENCE INTO TRENDS OF COMMUNITY TRANSMISSION AND CLINICAL INCIDENCE — BURKINA FASO, MOZAMBIQUE, AND NIGERIA, 2020-2022

Joseph T. Hicks[1], Anna Munsey[2], Alexandra Hill[1], Dele Babarinde[3], Baltazar Candrinho[4], Siaka Debe[5], Peder Digre[6], Adama Gansane[5], Christelle Gogue[7], Chabu Kangale[8], Hannah Koenker[9], Julia Mwesigwa[10], John Miller[8], Okefu Oyale Okoko[11], Ali Onoja[3], Travis Porter[6], Eleanore Sternberg[9], Perpetua Uhomoibhi[11], Molly Robertson[12], Joseph Wagman[7], Richard G. FitzJohn[1], Julie R. Gutman[2], Patrick GT Walker[1]
[1]Imperial College London, London, United Kingdom, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Ibolda Health International, Abuja, Nigeria, [4]4National Malaria Control Program, Ministry of Health, Maputo, Mozambique, [5]Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, [6]PATH, Seattle, WA, United States, [7]PATH, Washington, DC, United States, [8]PATH, Lusaka, Zambia, [9]Tropical Health LLP, Baltimore, MD, United States, [10]PATH, Kampala, Uganda, [11]National Malaria Elimination Programme, Abuja, Nigeria, [12]The Global Fund to Fight AIDS, Tuberculosis and Malaria, Geneva, Switzerland

12:30 p.m.

7233

ASSESSING HISTORY OF ACCEPTABILITY AND COVERAGE WITH MASS DRUG ADMINISTRATION (MDA) FOR LYMPHATIC FILARIASIS TO INFORM RE-START OF MDA 6 YEARS POST-ELIMINATION

Alison Krentel[1], Cut Novianti Rachmi[2], Hafizah Jusril[2], Gusta Trisna Pratama[2], Zahra Izza Arifa[2], Esther N. Tambunan[2], Wiji Wahyuningsih[2], Azka Aulia Fitri[2], Suci Trisnasari[2], Peter U. Fischer[3], Taniawati Supali[4], Iwan Ariawan[5]
[1]University of Ottawa, Ottawa, ON, Canada, [2]Reconstra, Jakarta, Indonesia, [3]Washington University at St. Louis, St. Louis, MO, United States, [4]Universitas Indonesia, Jakarta, Indonesia, [5]Reconstra Utama Integra, Jakarta, Indonesia

12:45 p.m.

7234

BUILDING THE CAPACITY OF COMMUNITY INFLUENCERS TO INCREASE THE EQUITY AND IMPACT OF UGANDA'S TRACHOMA RESPONSE

Hilda Kyarisiima[1], Alfred Mubangizi[1], Emmanuel Ssegawa[2], Palma Marwas[2], Claire Karlsson[2], Andrew Kyambadde[3]
[1]Uganda Ministry of Health, Kampala, Uganda, [2]WI-HER, Vienna, VA, United States, [3]RTI International, Washington, DC, United States

1 p.m. 7235

CITIZENS CAN HELP TO MAP PUTATIVE TRANSMISSION SITES FOR SNAIL-BORNE DISEASES

Noelia del Carmen Valderrama Bhraunxs[1], Julius Tumusiime[2], Grace Kagoro Rugunda[2], Daisy Namirembe[2], Ronald Twongyirwe[2], Christian Albrecht[3], Casim Umba Tolo[2], Liesbet Jacobs[4], Tine Huyse[5]
[1]KU Leuven, Leuven, Belgium, [2]Mbarara University of Science and Technology, Mbarara, Uganda, [3]Justus Liebig University Giessen, Giessen, Germany, [4]Institute for Biodiversity and Ecosystem Dynamics - University of Amsterdam, Amsterdam, Netherlands, [5]Royal Museum for Central Africa, Tervuren, Belgium

Scientific Session 162

Malaria - Prevention II

Grand Ballroom B - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR
Ivan Alejandro Pulido Tarquino
Malaria Consortium, Maputo, Mozambique

Thom Eisele
Tulane University, New Orleans, LA, United States

11:30 a.m. 7236

PATTERNS OF HEALTH SEEKING BEHAVIOUR AND TREATMENT PRACTICES FOR FEBRILE CHILDREN FOLLOWING THE INTRODUCTION OF RTS,S/AS01 MALARIA VACCINE IN GHANA

Thomas Kwasi Gyan[1], Paul Welaga[2], Edwin Afari[3], Kwaku Poku Asante[1]
[1]Kintampo Health Research Centre, Ghana Health Service, Kintampo, Ghana, [2]C. K. Tedam University of Technology and Applied Science, Navrongo, Ghana, [3]School of Public Health, University of Ghana, Accra, Ghana, Accra, Ghana

11:45 a.m. 7237

OPERATIONAL PERFORMANCE AND ACCEPTABILITY OF A PROGRAMMATIC MASS DRUG ADMINISTRATION CAMPAIGN FOR MALARIA IN SOUTHERN MOZAMBIQUE: A CROSS-SECTIONAL SURVEY

Maria Tusell[1], Laura Fuente-Soro[1], Jacopo Vecchio[1], Amancio Nhangave[2], Khalid Bapu[3], Christina Riley[4], Mercia Dimene[5], Samira Sibindy[5], Baltazar Candrinho[5], Pedro Aide[3], Caterina Guinovart[1]
[1]Barcelona Institute for Global Health, Barcelona, Spain, [2]Gaza Provincial Directorate of Health, Xai-Xai, Mozambique, [3]Manhiça Health Research Centre, Manhiça, Mozambique, [4]Akros, Lusaka, Zambia, [5]National Malaria Control Program, Ministry of Health, Maputo, Mozambique

Noon 7238

WILL A LACK OF FABRIC DURABILITY BE THEIR DOWNFALL? IMPACT OF TEXTILE DURABILITY ON THE EFFICACY OF NEXT-GENERATION LONG-LASTING INSECTICIDAL NETS AGAINST MALARIA PREVALENCE AND INCIDENCE: A SECONDARY ANALYSIS FROM A CLUSTER-RANDOMIZED TRIAL IN TANZANIA

Eliud A. Lukole[1], Jackie Cook[2], Manisha A. Kulkarni[3], Jacklin F. Mosha[1], Elizabeth Mallya[4], Tatu Aziz[1], Nancy S. Matowo[2], Alphaxard Manjurano[1], Jacklin Martin[4], Franklin W. Mosha[4], Mark Rowland[2], Immo Kleinschmidt[2], Natacha Protopopoff[2]
[1]National Institute for Medical Research (NIMR), Mwanza, United Republic of Tanzania, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]University of Ottawa, Ottawa, ON, Canada, [4]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania

12:15 p.m. 7239

TRENDS IN ANTENATAL CARE VISITS AND INTERMITTENT PRESUMPTIVE TREATMENT IN PREGNANCY IN SUB-SAHARAN AFRICA. IMPLI-CATIONS OF WHO POLICY

Bolanle Olapeju
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

12:30 p.m. 7240

SEASONAL MALARIA CHEMOPREVENTION EFFECTIVENESS IN NORTHERN MOZAMBIQUE, RESULTS FROM A CLUSTER RANDOMISED CONTROL TRIAL

Ivan Alejandro Pulido Tarquino[1], Kevin Baker[2], Sonia Maria Enosse[1], Chuks Nnaji[2], Albertino Zunza[1], Mercia Sitoe[1], Baltazar Candrinho[3], Maria Rodrigues[1], Sol Richardson[4]
[1]Malaria Consortium, Maputo, Mozambique, [2]Malaria Consortium, London, United Kingdom, [3]National Malaria Control Programme, Maputo, Mozambique, [4]Vanke School of Public Health, Tsinghua University, Beijing, China

12:45 p.m. 7241

ADAPTING THE MASS ACTION AGAINST MALARIA APPROACH FOR MALARIA PREVENTION AND MANAGEMENT AT THE HOUSEHOLD LEVEL: IMPLEMENTATION LESSONS FROM FIVE HIGH BURDEN REGIONS IN UGANDA

Disan Ndaula Sempa[1], Irene Ochola[1], Dorah Anita Talanta[1], Edward Mugwanya[1], Amanda Nagadya[1], Rebecca Babirye[2], Ambrose Okite[3], Aaron Musimenta[1], Amy Casella[4], Aliza Hasham[5], Benjamin Binagwa[1], Natalia Whitley[4]
[1]John Snow Inc, Kampala, Uganda, [2]Program for Accessible Health Communication and Education, Kampala, Uganda, [3]Another Option LLC, Kampala, Uganda, [4]John Snow Inc, Boston, VA, United States, [5]John Snow Inc, Dar es Salam, United Republic of Tanzania

1 p.m. 7242

EVALUATION OF NEW, INSECTICIDE-TREATED NET PRODUCTS, META-ANALYSIS OF OBSERVATIONAL STUDIES, AND ECONOMIC EVALUATIONS FROM FIVE SUB-SAHARAN AFRICAN SETTINGS

Joshua Yukich[1], Riley E. Santiago[1], Maya Schane[1], Peder Digre[2], Okefu Oyale Okoko[3], Perpetua Uhomoibhi[3], Emmanuel Obi[4], Christelle Gogue[5], Marcy Erskine[6], Giovanni Dusabe[6], Zainab Baba Mai Ali[6], Idrissa Cisse[7], David Masiko[8], Jimmy Opigo[9], Medard Rukaari[9], Olivier Lemba Palata[10], Albert Tuyishime[11], Ines Juleca Antonio[12], Guira Matilibou[13], Joseph Wagman[5], Molly Robertson[14], Christen Fornadel[15]
[1]Center for Applied Malaria Research and Evaluation, Department of Tropical Medicine, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]PATH, Seattle, WA, United States, [3]National Malaria Elimination Programme, Federal Ministry of Health, Abuja, Nigeria, [4]Tropical Health LLP, Lagos, Nigeria, [5]PATH, Washington, DC, United States, [6]International Federation of the Red Cross and Red Crescent, Geneva, Switzerland, [7]Programme National de Lutte Contre le Paludisme, Bamako, Mali, [8]Butali Consulting and Advisory Services Ltd, Kampala, Uganda, [9]National Malaria Control Division, Ministry of Health, Kampala, Uganda, [10]Population Services International, Bamako, Mali, [11]Rwanda Biomedical Centre, Kigali, Rwanda, [12]Programa Nacional de Controle da Malária, Maputo, Mozambique, [13]Programme d'Appui au Développement Sanitaire du Burkina Faso, Ouagadougou, Burkina Faso, [14]The Global Fund to Fight AIDS, Tuberculosis and Malaria, Geneva, Switzerland, [15]IVCC, Liverpool, United Kingdom

Symposium 163

Making Surveillance as an Intervention Work - Innovations to Improve Data Collection and Utilization

Grand Hall J - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

While the World Health Organization has long recognized the need for strong surveillance systems, highlighting these as a key component of malaria control in both the Global Technical Strategy for Malaria and the High Burden High Impact approach, malaria case surveillance remains suboptimal in most endemic areas. While 34 countries in sub-Saharan Africa (SSA) utilize the District Health Information Software 2 (DHIS2) system to collect routine data, facility level data is collected on paper and aggregated monthly. The process of tallying cases across multiple pages to generate the summary is error prone. To save time, facilities may report only certain indicators, and data are often reported late, making it less utilitarian for response. Novel systems are needed. While routine digital data collection is a goal in many SSA countries, it may not be immediately attainable due to poor infrastructure (network connectivity, electricity, etc.). Alternative systems that can operate offline are needed. Additionally, efforts are needed to simplify and automate tallying and reporting to minimize the reporting burden. This symposium will present innovations being implemented in all levels of the health system in Siaya County, Western Kenya, to improve surveillance and data utilization. An overview of scannable paper registers being used in health facilities and communities will focus on implementation challenges and successes, strategies for monitoring data quality, and opportunities for routine data use. In addition, recognizing that the private sector plays a critical role in treating nearly 30% of patients, capturing private facility data not typically reflected in DHIS2 can provide a more robust overview of true malaria burden throughout the health system. Maisha Meds has developed an innovative pharmaceutical management tool to capture private facility diagnosis and treatment data, while simultaneously serving as a point-of-sale stock management system for the pharmacies, incentivizing the provider to use the system. This platform, which has been adapted to have offline availability, is currently in use in >1600 facilities in six SSA countries, supporting over 6 million patient encounters yearly. The final talk will discuss the use of spatially indexed routine data collected at the health facility to gain a more nuanced understanding of community malaria dynamics. This work will assess how reflective antenatal care malaria burden is to the wider population burden, the ability to isolate drivers of observed patterns in care-seeking behavior, and the capacity to assess effectiveness of intervention strategies using the data. The session will conclude with a panel discussion on how these innovations can be translated to additional settings.

CHAIR
Julie R. Gutman
Centers for Disease Control and Prevention, Atlanta, GA, United States

11:30 a.m.
INTRODUCTION

11:35 a.m.
USING SCANFORM, A NOVEL SYSTEM HARNESSING OPTICAL CHARACTER RECOGNITION TO COLLECT HIGH QUALITY DATA FROM HEALTH FACILITIES IN WESTERN KENYA
Victoria Seffren
Centers for Disease Control and Prevention, Atlanta, GA, United States

11:50 a.m.
IMPLEMENTING HIGH QUALITY DATA REPORTING IN THE COMMUNITY USING SCANFORM: LESSONS FROM THE FIELD
Kizito Obiet
KEMRI/CGHR, Kisumu, Kenya

12:05 p.m.
WHAT IS THE CONTRIBUTION OF COMMUNITY HEALTH WORKERS TO MALARIA CASE SURVEILLANCE?
Wycliffe Odongo
Centers for Disease Control and Prevention, Atlanta, GA, United States

12:20 p.m.
THE ROLE OF PRIVATE FACILITIES IN MALARIA CASE MANAGEMENT AND USE OF INVENTORY MANAGEMENT TOOLS TO IMPROVE QUALITY OF CASE MANAGEMENT AND REPORTING
Veronica Njeri
Maisha Meds, Kisumu, Kenya

12:35 p.m.
MODELLING OF ROUTINE SURVEILLANCE DATA DERIVED FROM OUTPATIENT AND ANTENATAL CLINICS TO INFORM DECISION MAKING
Daniel McDermott
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 164

LIVE STREAMING

Building Malaria Modelling Capacity: Training a New Generation of Mathematical Modellers in Sub-Saharan Africa

Grand Ballroom CDEF - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

National Malaria Control Programs (NMCPs) across sub-Saharan Africa are showing a growing interest in using evidence generated with the help of mathematical modelling to shape their National Strategic Plans and to support resource mobilization efforts, as well as to routinely evaluate the impact of interventions implemented by the program. For modelling to have a sustainable positive impact, it must be embedded in a multidisciplinary, participatory process, with local scientists and Ministries of Health staff leading this process. Ensuring the skills exist at a local level enables the development of locally relevant models to accelerate disease control and elimination, led by in-country researchers working closely with local decision-makers. Developing this malaria modelling capacity itself requires local leadership and

customized training tailored to local needs, culture, and existing capacity. This symposium takes the opportunity to present five African awardees of the Bill & Melinda Gates Foundation 2022 Grand Challenges Award in Building Malaria Modelling Capacity in Sub-Saharan Africa. These awardees, all based in Africa, have designed individual capacity building programs adapted to national and regional settings. Despite differences in foci and methodology, all five programs seek to develop a critical mass of African malaria modellers to meet the need for tailored quantitative malaria decision support in a sustainable way. The five malaria modelling capacity building programs include a West African Anglo-Franco-Lusophone partnership, a modelling fellowship program for field epidemiologists in Nigeria, a multi-country consortium to implement transdisciplinary training based in Rwanda, a nexus of training and career development of malaria modellers in Southern Africa, and an African consortium in mathematical modelling for effective vector control on the continent. Along with presenting the structure of the programs, each speaker will focus on the role of context, culture, and indigenous knowledge in establishing a highly efficient pathway from training to impact on the continent. The symposium will be moderated by Dr Jennifer Gardy from the Bill & Melinda Gates Foundation.

CHAIR

Sheetal P. Silal
Modelling and Simulation Hub, Africa, University of Cape Town, Cape Town, South Africa

11:30 a.m.
INTRODUCTION

11:35 a.m.
WEST AFRICA MATHEMATICAL MODELING CAPACITY DEVELOPMENT (WAMCAD): ANGLOPHONE- FRANCOPHONE-LUSOPHONE PARTNERSHIP

Yaw Asare Afrane
University of Ghana, Accra, Ghana

11:50 a.m.
NIGERIA MATHEMATICAL MODELLING FELLOWSHIP (MMF)

Chijioke Kaduru
Mathematical Modelling Working Group (Nigeria) Secretariat, Corona Management Systems, Abuja, Nigeria

12:05 p.m.
BUILDING THE NEXT GENERATION OF MALARIA MODELERS IN AFRICA FOR SUSTAINABLE PUBLIC HEALTH POLICIES (MAMODAFRICA)

Wilfred Ndifon
African Institute for Mathematical Sciences - Next Einstein Initiative (AIMS NEI), Kigali, Rwanda

12:20 p.m.
MALARIA MODELLING AND ANALYTICS: LEADERS IN AFRICA (MMALA) – A NEXUS OF TRAINING IN SOUTHERN AFRICA

Sheetal P. Silal
Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa

12:35 p.m.
ACOMVEC: AN AFRICAN CONSORTIUM IN MODELLING FOR EFFECTIVE VECTOR CONTROL

Charles S. Wondji
Centre of Research in Infectious Diseases (CRID) and Liverpool School of Tropical Medicine (LSTM, UK), Yaounde, Cameroon

12:50 p.m.
MODERATOR, PANEL DISCUSSION

Jennifer Gardy
Bill & Melinda Gates Foundation, Seattle, WA, United States

Symposium 165

Vector Control and Surveillance: The Role of Entomology in Onchocerciasis and Its Implication for Verification of Lymphatic Filariasis Elimination

Grand Hall K - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

Vector borne diseases require a causative pathogen, a human host, and a vector. Human filarial nematodes share a complex life cycle involving a definitive human host and an intermediate insect vector. Adult worms mate and reproduce in humans producing early stage larvae known as microfilariae (MF). When the vectors take a blood meal from an infected human, the MF are ingested. Once inside the vector, the MF develop into infective larvae which are passed on to another person through the same channel. Public health interventions targeting these diseases often attempt to break at least one stage in this cycle as a means of reducing or interrupting transmission. Of the eight filarial infections affecting humans, onchocerciasis and lymphatic filariasis cause significant morbidity and are targeted by WHO as part of the 2030 NTD Roadmap. Both diseases using mass treatment with medicines which target the MF within the human host. Similarly, interventions rely heavily on antigen tests to assess exposure in a population at-risk in order to measure success. Vector control is to reduce the number of MF taken up by the vectors (black flies for onchocerciasis or mosquitoes for LF) and restrict the number of infective larvae produced that infect (or expose) humans. The 2030 NTD Roadmap targets onchocerciasis for interruption of transmission, defined as zero incidence of infection, and elimination as a public health problem for LF, defined as, "achieving measurable targets set by WHO…where continued actions are required to maintain the targets or advance to interruption of transmission". In both cases, the interventions primarily target the pathogen in the human host. The major difference in the monitoring and evaluation (M&E) and surveillance of the two diseases is that the interventions for onchocerciasis have included entomological monitoring and vector control as part of the process toward achieving the roadmap goals. Understanding how, when and where to use vector control and surveillance, and the importance of the entomological criteria for the verification of elimination is a critical step towards achieving the roadmap targets.

CHAIR

Upendo Mwingira
RTI International, Washington, DC, United States

Darin Evans
USAID, Washington, DC, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
VECTOR CONTROL AND SURVEILLANCE OF ONCHOCERCIASIS IN UGANDA: WHY THERE AND NOT EVERYWHERE?

David Oguttu
Ministry of Health, Uganda, Kampala, Uganda

11:55 a.m.
RECRUDESCENCE OF ONCHOCERCIASIS IN METEMA SUB FOCUS, ETHIOPIA: WHY VECTOR MONITORING WAS CRITICAL

Kadu Meribo
Ministry of Health, Ethiopia, Addis Ababa, Ethiopia

12:10 p.m.
MODELING INTERVENTIONS FOR INTERRUPTION OF TRANSMISSION: ONCHO VS LF

Edwin Micheal
University of South Florida, Tampa, FL, United States

12:30 p.m.
XENOMONITORING FOR LF: PRACTICAL EXPERIENCE

Sammy Njenga
KEMRI, Nairobi, Kenya

12:45 p.m.
OVERCOMING END GAME CHALLENGES: WHEN IS VECTOR CONTROL APPROPRIATE FOR ONCHO AND LF AND HOW DO COUNTRIES IMPLEMENT THOSE EFFORTS

Moses N. Katabarwa
RTI International, Atlanta, GA, United States

1 p.m.
MODERATOR, PANEL DISCUSSION

Upendo Mwingira
RTI International, Washington, DC, United States

Symposium 166

Cryptosporidiosis: New Science to Combat a Leading Cause of Early Childhood Diarrhea

Grand Hall L - Ballroom Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

This session does not carry CME credit.

The apicomplexan parasite Cryptosporidium is a leading cause of diarrheal diseases with a particularly grave impact on young children. Cryptosporidiosis has a profound yet poorly understood relationship with malnutrition, both as a cause and consequence. Recently, fueled by the appreciation of its public health impact, and a series of technical breakthroughs, research on this pathogen has made significant advances. This symposium will bring together experts along the full spectrum of research on this important disease: studies in children on pathogenesis and immunity, fundamental laboratory studies using novel genetic tools and organoid and animal models, and translational studies towards the development of urgently needed drugs and vaccines.

CHAIR

Boris Striepen
University of Pennsylvania, Philadelphia, PA, United States

Carol Gilchrist
University of Virginia, Charlottesville, VA, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
PEDIATRIC CRYPTOSPORIDIOSIS, DIARRHEA, ENTEROPATHY AND MALNUTRITION

Paul Kelly
Barts & The London School of Medicine, London, UK and University of Zambia School of Medicine, Lusaka, Zambia., Lusaka, Zambia

Noon
INFLUENCE OF GUT MICROBIAL METABOLITES ON CRYPTOSPORIDIUM GROWTH

David Sibley
Washington University, St. Louis, MO, United States

12:20 p.m.
DEVELOPING MODE OF ACTION TOOLS TO AID CRYPTOSPORIDIOSIS DRUG DISCOVERY

Mattie Pawlowic
Wellcome Centre for Anti-Infectives Research, University of Dundee, Dundee, United Kingdom

12:40 p.m.
NATURAL IMMUNITY TO CRYPTOSPORIDIUM IN YOUNG CHILDREN

Carol A. Gilchrist
University of Virginia HSC, Charlottesville, VA, United States

1 p.m.
RATIONAL DESIGN OF GI TARGETED CPPI4K INHIBITOR TO TREAT PEDIATRIC ENTERIC CRYPTOSPORIDIOSIS

Ujjini H. Manjunatha
Global Health at Novartis Institutes for BioMedical Research, Inc., Emeryville, CA, United States

Symposium 167

Development, Implementation and Evaluation of IMCI-Based Clinical Decision Support Algorithms with Pulse Oximetry to Improve the Assessment and Management of Sick Children in India, Kenya, Senegal and Tanzania

Plaza Ballroom - Lobby Level (East Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

Healthcare providers in low and middle-income countries (LMICs) face many challenges in managing sick children in primary care. With an estimated 5 million children under 5 years of age dying each year from preventable causes, strategies to improve

the detection and management of children with severe illness, whilst supporting the rational use of resources, are critical. The Integrated Management of Childhood Illness (IMCI) guidelines provide a simple, structured approach to consultations with sick children for healthcare providers in resource-constrained settings. However, many studies have demonstrated poor identification and management of severely ill children due to both non-adherence by health workers and intrinsic problems of guidelines based on clinical signs alone. Clinical decision support algorithms (CDSAs) can improve adherence to evidence-based practice by guiding healthcare providers through consultations and providing patient-specific recommendations on assessment, diagnosis, treatment and counseling. By providing step-by-step support, they also offer the possibility of integrating relevant child health guidelines beyond IMCI, particularly to support the appropriate management of non-malarial fever. Combined with pulse oximetry to detect hypoxaemia, a strong predictor of mortality, CDSAs have the potential to improve the identification and management of children with severe illness, and support diagnostic and antimicrobial stewardship. Evidence on impact, and implementation approaches to facilitate uptake in different contexts, is needed to inform decision-making about scale-up. This symposium will present new evidence from the large-scale multi-method research conducted in India, Kenya, Senegal, and Tanzania as part of the Tools for Integrated Management of Childhood Illness (TIMCI) project. The session will 1) describe the approach to clinical decision support algorithm development, reflecting the similarities and differences in content based on national guidelines, priorities and epidemiology, and present insights on clinical presentations, and acceptability of diagnosis and treatment recommendations from CDSA consultation data; 2) present key learnings on CDSA and pulse oximetry implementation from pilots studies used to refine clinical algorithm content and implementation approach; and 3) highlight acceptability, feasibility and impact of CDSA and pulse oximetry implementation findings from pragmatic cluster randomized controlled trials, quasi-experimental studies and mixed-method sub-studies carried out in 4 countries.

CHAIR
Michael A. Ruffo
PATH, Geneva, Switzerland

11:30 a.m.
INTRODUCTION

11:35 a.m.
ADAPTING CLINICAL DECISION SUPPORT ALGORITHMS TO ALIGN WITH NATIONAL GUIDELINES AND PRIORITIES: LEARNINGS FROM INDIA, KENYA, SENEGAL, AND TANZANIA
Fenella Beynon
Swiss Tropical & Public Health Institute, Allschwil, Switzerland

11:55 a.m.
ALIGNING GUIDELINE-BASED CDSA WITH THE REALITIES OF PRIMARY CARE PROVISION: LEARNINGS FROM PILOT TO IMPLEMENTATION IN SENEGAL
Papa Moctar Faye
University Cheikh Anta Diop, Dakar, Senegal

12:15 p.m.
IMPLEMENTATION OF CDSA AND PULSE OXIMETRY: LEARNINGS FROM THE KENYA EXPERIENCE
Andolo Miheso
PATH, Nairobi, Kenya

12:35 p.m.
ACCEPTABILITY, FEASIBILITY AND IMPACT OF CDSA AND PULSE OXIMETRY IMPLEMENTATION: FINDINGS FROM THE PRAGMATIC CLUSTER RANDOMIZED CONTROLLED TRIAL IN TANZANIA
Grace Mhalu
Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania

12:55 p.m.
HEALTH SYSTEM CONTEXT FOR USABILITY AND ACCEPTABILITY OF CDSA AND PULSE OXIMETRY: LEARNINGS FROM THE INDIA PILOT
Shally Awasthi
King George's Medical University, Lucknow, India

Symposium 168

Innovations in Diagnostics Supporting Improved Pneumonia Case Management in Children under Five Years

Crystal Ballroom A - Lobby Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

Pneumonia remains the leading infectious killer of children under five years in the world and therefore improving case management of pneumonia is a key component in achieving Sustainable Development Goal (SDG) 3.2, requiring all countries to reduce their Child Mortality Rates to, "at least 25 deaths per 1,000 live births" by 2030. Success in achieving Universal Health Coverage for children will also depend on whether countries provide quality services and care for children with pneumonia. Access to accurate, usable and affordable diagnostics for effective management of pneumonia in resource poor settings continues to be a major barrier to improved pneumonia control. Every Breath Counts (EBC), the world's first public-private partnership to support national governments to end preventable child pneumonia deaths by 2030, recognizes the need for innovative diagnostics to improve pneumonia case management in children under five in primary health care settings. In this symposium, the EBC research group will present primary research from five partners, highlighting recent innovation and potential for improved pneumonia diagnostic aids and potential opportunities to scale. Firstly, cutting-edge formative results showing the potential for artificial Intelligence to support automated respiratory rate counting using a mobile phone. Secondly, results from a large-scale evaluation of multimodal pneumonia diagnostic aids in four countries – Kenya, Senegal, Melawi, and India. Thirdly, we will also examine trial results from Bangladesh showing the utility of digital auscultation for pneumonia diagnosis in children under five. Fourthly, Save the Children will present recent results from Kenya on the potential support to pneumonia diagnosis, a decision support technology can provide. Finally, results from a large-scale trial in the US will be

discussed, evaluating cough sound technology as a pneumonia diagnosis tool. The session will conclude with a moderated discussion which will tie together the presentations and facilitate a structured interaction between the presenters and the audience.

CHAIR

Kevin Baker
Malaria Consortium, London, United Kingdom

Helen Storey
PATH, Seattle, WA, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
RESULTS FROM THE AIRR STUDY – SHOWING HOW ARTIFICIAL INTELLIGENCE CAN SUPPORT AUTOMATED RESPIRATORY RATE COUNTING ON MOBILE PHONES

Carina King
Karolinska Institute, Stockholm, Sweden

Noon
ADVANCING MULTIMODAL PULSE OXIMETRY: LEARNINGS FROM TIMCI INITIATIVE, INCLUDING SMARTPHONE-BASED TOOLS AND DATA REPOSITORY

Helen Storey
PATH, Seattle, WA, United States

12:20 p.m.
RESULTS FROM A TRIAL FOCUSED ON THE COMMUNITY USE OF DIGITAL AUSCULTATION TO IMPROVE DIAGNOSIS OF CHILDHOOD PNEUMONIA IN SYLHET, BANGLADESH

Salahuddin Ahmed
Projahnmo Research Foundation, Dhaka, Bangladesh

12:40 p.m.
RESULTS FROM A STUDY IN KENYA USING DECISION SUPPORT TECHNOLOGY FOR IMPROVING AND ENSURING HEALTH CARE PROVIDERS' COMPLIANCE/ADHERENCE TO IMCI GUIDELINE FOR ASSESSING, DIAGNOSING, AND MANAGING UNDER FIVE SICK CHILDREN

Rashed Shah
Save the Children US, Washington, DC, United States

1 p.m.
RESULTS FROM SMART COUGH TRIAL EVALUATING THE UTILITY OF COUGH SOUNDS AS A DIAGNOSTIC TOOL FOR PNEUMONIA

Peter Moschovis
Massachusetts General Hospital, Boston, United States

Scientific Session 169

Clinical Tropical Medicine: Neglected Diseases and Fevers

Crystal Ballroom B - Lobby Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR

Elizabeth Gulleen
Fred Hutchinson Cancer Research Center, Seattle, WA, United States

Wendemagegn E. Yeshanh
Bahir Dar University, Bahir Dar, Ethiopia

11:30 a.m. 7243

PODOCONIOSIS; CLINICAL SPECTRUM AND MICROSCOPIC PRESENTATIONS

Wendemagegn Enbiale Yeshanh[1], Almut Enbiale Boer Auer[2], Bereket Amare[1], Kristien Verdonck[3], Gail Davey[4], Johan Griensven[3], Henry de Vries[5]
[1]Bahir Dar University, Bahir Dar, Ethiopia, [2]Dermatologikum, Hamburg, Germany, [3]Institute of tropical Medicine, Antwerp, Belgium, [4]Brighton and Sussex Medical School, Falmer, Brighton, United Kingdom, [5]University of Amsterdam, Department of Dermatology, Amsterdam, Netherlands

11:45 a.m. 7244

THROMBOSIS AND ORGAN DYSFUNCTION IN SNAKEBITE ENVENOMING: TIME TO REDEFINE VENOM INDUCED CONSUMPTION COAGULOPATHY?

Maya Gopalakrishnan, Akhilesh Kumar, Pamkaj Sukhadiya, Divya Tanwar, Poonam Elhence, Mahendra K. Garg
All India Institute of Medical Sciences, Jodhpur, Jodhpur, India

Noon 7245

THE RELEVANCE OF REPORTING LEPROSY RELATED DISABILITY AT THE COMPLETION OF MULTI DRUG THERAPY: A 5-YEAR RETROSPECTIVE ANALYSIS OF DISABILITY IN PERSONS AFFECTED BY LEPROSY AT ALERT HOSPITAL ETHIOPIA

Bereket A. Tegene[1], Thomas A. Atnafu[2], Saba M. Lambert[1], Stephen L. Walker[1]
[1]London School of Hygeine and Tropical Medicine, London, United Kingdom, [2]All Africa Leprosy TB Rehabilitation Training Center, Addis Ababa, Ethiopia

12:15 p.m. 7246

PATHOGENESIS OF ACUTE KIDNEY INJURY IN LASSA FEVER

Matin Kohsar[1], Osas Edeawe[2], Christian Erohubie[3], Benno Kreuels[1], Sylvanus Okogbenin[2], Stephan Günther[4], Michael Ramharter[1], Lisa Österreich[4], Till Frederick Omansen[1], Cyril Erameh[2]
[1]Department of Tropical Medicine, Bernhard Nocht Institute for Tropical Medicine & I. Dep. of Medicine, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, [2]Institute for Lassa Fever Research and Control, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [3]Department of Medicine, Irrua Specialist Teaching Hospital, Irrua, Nigeria, [4]Department of Virology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

12:30 p.m. 7247

TRYING TO UNMASK THE HIDDEN CAUSES OF IMPORTED FEVER WITH NEW GENOME SEQUENCING: A MULTICENTER PROSPECTIVE COHORT STUDY

Daniel Camprubí Ferrer[1], Leire Balerdi-Sarasole[1], Alex Tomazatos[2], Ludovico Cobuccio[3], Steven Van Den Broucke[4], Blaise Genton[3], Emmanuel Bottieau[4], Natalia Rodriguez-Valero[1], Alex Almuedo-Riera[1], Valerie d'Acremont[3], Javier Gandasegui[1], Carme Subirà[1], Angeline Cruz[1], Daniel Cadar[2], Jose Muñoz[1]
[1]ISGlobal / Hospital Clínic Barcelona, Barcelona, Spain, [2]Bernhard-Nocht-Institut für Tropenmedizin, Hamburg, Germany, [3]Center for Primary Care and Public Health, University of Lausanne, Lausanne, Switzerland, [4]Institute of Tropical Medicine, Antwerp, Belgium

12:45 p.m. 7248

MALSCORE: AN INNOVATIVE TOOL TO PREDICT MALARIA IN PATIENTS WITH IMPORTED FEVER TO START EARLY TREATMENT.

Leire Balerdi-Sarasola[1], Pedro Fleitas[1], Ludovico Cobuccio[2], Steven Van Den Broucke[3], Blaise Genton[2], Emmanuel Bottieau[3], Valérie d'Acremont[2], Natalia Rodriguez-Valero[1], Alex Almuedo-Riera[1], Carme Subirà[1], Montserrat Roldan[1], Claudio Parolo[1], Jose Muñoz[1], Daniel Camprubí-Ferrer[1]
[1]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland, [3]Department of Clinical Sciences, Institute of Tropical Medicine, Antwerp, Belgium

1 p.m. 7249

DIAGNOSTIC TOOLS AND ALGORITHMS AT THE POINT OF CARE TO SAFELY REDUCE ANTIBIOTIC PRESCRIPTIONS FOR ACUTE FEBRILE ILLNESS MANAGEMENT

Juvenal Nkeramahame[1], Ana Belen-Ibarz[1], Philip Horgan[1], Anjana Tomar[2], Sarabjit Singh Chadha[2], Kamini Walia[3], James Kapisi[4], Halidou Tinto[5], Francois Kiemde[5], Shanta Dutta[6], Ashish Pathak[7], Neelam Taneja[8], Gajanan Phutke[9], Olita Shilpakar[10], Heidi Hopkins[11], Basnyat Buddha[10], Piero Olliaro[12], Sabine Dittrich[13], Cecilia Ferreyra[1]
[1]FIND, Geneva, Switzerland, [2]FIND, New Delhi, India, [3]Indian Council Of Medical Research, New Delhi, India, [4]Infectious Diseases Research Collaboration, Kampala, Uganda, [5]Clinical Research Unit Of Nanoro, Nanoro, Burkina Faso, [6]ICMR-National Institute Of Cholera And Enteric Diseases, West Bengal, India, [7]RD Gardi Medical College, Madhya Pradesh, India, [8]Postgraduate Institute Of Medical Education And Research, Punjab, India, [9]Jan Swasthya Sahyog, Chhattisgarh, India, [10]Oxford University Clinical Research Unit-Nepal, Kathmandu, Nepal, [11]London School Of Hygiene & Tropical Medicine, London, United Kingdom, [12]Pandemic Sciences Institute, Nuffield Department Of Medicine, University Of Oxford, Oxford, United Kingdom, [13]Deggendorf Institute Of Technology, Deggendorf, Germany

Symposium 170

Preparing for the Next Zika Outbreak: Lessons Learned from Large Birth Cohorts Regarding Developmental Abnormalities and Adverse Pregnancy Outcomes

Regency Ballroom A - Ballroom Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

When Zika virus (ZIKV) caused outbreaks in the Western Pacific and the Americas from 2013-2017, a causal link was established to thousands of cases of microcephaly and other developmental abnormalities in fetuses/infants when mothers acquired infection during pregnancy. Large birth cohorts and prospective surveillance studies were quickly initiated to quantify the risk and analyze the range of adverse clinical phenotypes associated with ZIKV infection, for example by the NIH, the US CDC, the European Commission, the French National Research Institute INSERM, and by Brazilian institutions (eg. FIOCRUZ; Microcephaly Epidemiology Research Group - MERG). This resulted in the description of the 'Congenital Zika Syndrome' (CZS), but questions regarding the discrepant frequency of adverse outcomes (eg. between regions and over time) as well as regarding the mix of clinical phenotypes remain. In addition, it became clear that only through long term follow up of ZIKV-exposed children after birth the full picture of abnormalities and disease burden could be assessed. Since the outbreak quickly dropped, the number of confirmed cases collected in each of the cohorts turned out to be limited. In response to this, the WHO has initiated an Individual Patient Data Meta-Analysis, inviting ZIKV studies to share and harmonize their data towards a common goal. However, when the COVID-19 pandemic hit, the work on the harmonization of the ZIKV cohorts was often delayed by logistic bottlenecks like barriers in shipping of samples or conducting diagnostic laboratory work outside of prioritized COVID-19 research. In this symposium, we will convene the larger ZIKV birth cohort studies and evaluate the current state of play regarding risk and relative frequency of adverse pregnancy outcomes at birth and developmental abnormalities after birth associated to ZIKV infection *in utero*. In the light of the fact that vaccines and monoclonal antibodies are under development, we want to consolidate the knowledge gained by natural history cohorts and map out concrete steps for the remaining gaps. The key question is if we are ready for potential re-emergence and if we have been able to use the existing data to the full extent, establishing solid evidence regarding the association between maternal ZIKV infection during pregnancy and each of the adverse outcomes.

CHAIR
Thomas Jaenisch
Colorado School of Public Health, Aurora, CO, United States
Edwin J. Asturias
Childrens Hospital Colorado, Aurora, CO, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
RESULTS FROM THE ZIKALLIANCE MULTICENTRIC BIRTH COHORTS - LESSONS LEARNED FOR FREQUENCY OF ADVERSE PREGNANCY OUTCOMES RELATED TO ZIKV
Kirsten Fong
Heidelberg University Hospital, Heidelberg, Germany

Noon
THE NIH ZIKA IN INFANTS AND PREGNANCY (ZIP) STUDY - FREQUENCY AND RISK FACTORS FOR CONGENITAL ABNORMALITIES AFTER ZIKV INFECTION DURING PREGNANCY
Walla Dempsey
National Institutes of Health, Bethesda, MD, United States

12:15 p.m.
RESULTS FROM THE CDC PROSPECTIVE SURVEILLANCE STUDIES
Nicki Roth
Centers for Diesease Control and Prevention, Atlanta, GA, United States

12:30 p.m.
RESULTS FROM THE BRAZILIAN ZIKA COHORTS - FREQUENCY OF ADVERSE PREGNANCY OUTCOMES AND MIX OF CLINICAL PHENOTYPES
Ricardo Ximenes
Federal University of Pernambuco, Recife, Brazil

12:50 p.m.

CHALLENGES REGARDING FOLLOW-UP OF DEVELOPMENTAL MILESTONES AND COGNITIVE OUTCOMES IN CHILDREN IN LMICS?

Edwin Asturias
Colorado School of Public Health, Aurora, CO, United States

Scientific Session 171

Malaria - Immunology: Covering the Spectrum of Naturally-Acquired and Vaccine-Induced Immune Responses

Regency Ballroom B - Ballroom Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR

Katherine Dobbs
Case Western Reserve University, Cleveland, OH, United States

Felistas Namirimu Nankya
Infectious Diseases Research Collaboration, Kampala, Uganda

11:30 a.m. 7250

IDENTIFICATION OF TARGETS OF PROTECTIVE ANTIBODY RESPONSES AGAINST *PLASMODIUM VIVAX* MALARIA USING A MULTIFUNCTIONAL ANTIBODY PROFILING APPROACH

D. Herbert Opi[1], Rhea Longley[2], Linda Reiling[1], Kael Schoffer[2], Yanie Tayipto[2], Ali Haghiri[3], Jessica Brewster[2], Damien Drew[1], Gaoqian Feng[1], Bruce Wines[1], Danielle Stanisic[4], Mathias Harbers[5], Takafumi Tsuboi[6], Eizo Takashima[6], P. Mark Hogarth[1], Benson Kinoboro[7], Leanne Robinson[1], Julie Simpson[3], Ivo Mueller[2], James G. Beeson[1]
[1]Burnet Institute, Melbourne, Australia, [2]Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, [3]University of Melbourne, Melbourne, Australia, [4]Griffith University, Gold Coast, Australia, [5]Cell Freee Sciences Co Ltd, Yokohama, Japan, [6]Ehime University, Matsuyama, Japan, [7]Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

11:45 a.m. 7251

ANTIBODY AND CELLULAR RESPONSES TO *IN UTERO* MALARIA EXPOSURE IN INFANTS

Felistas Namirimu Nankya[1], Florian Bach[2], Kathleen Press[2], Odorizzi Pamela[3], Kenneth Musinguzi[1], Kate Naluwu[1], Isaac Ssewanyana[1], Abel Kakuru[1], Moses Kamya[1], Grant Dorsey[4], Feeney Margaret[4], Prasanna Jagannathan[2]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]Stanford University, Stanford, CA, United States, [3]Gilead Sciences, Californis, CA, United States, [4]University of California San Francisco, San Francisco, CA, United States

Noon 7252

SEX HORMONES, CD8$^+$T CELLS, AND THE LIVER: HOW THE ENDOCRINE-IMMUNE INTERFACE ALTERS MALARIA LIVER-STAGE VACCINE OUTCOMES

Caroline J. Duncombe, Felicia Watson, Kenneth Boey, Anya Kalata, Melanie Shears, Mariko Seilie, Shruthi Raman, Sean C. Murphy
University of Washington, Seattle, WA, United States

12:15 p.m. 7253

INDUCTION OF LIVER-RESIDENT MEMORY CD8$^+$ T CELLS AND PROTECTION AGAINST MALARIA AT EXOERYTHROCYTIC STAGE BY MRNA-CONTAINING LIPID NANOPARTICLES

Sayuri Nakamae[1], Satoshi Miyagawa[1], Koki Ogawa[2], Jiun-Yu Jian[1], Mayumi Taniguchi[1], Takeshi Annoura[3], Katsuyuki Yui[1], Kenji Hirayama[4], Shigeru Kawakami[5], Shusaku Mizukami[1]
[1]Institute of Tropical Medicine, Nagasaki university, Nagasaki, Japan, [2]Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, [3]National Institute of Infectious Diseases, Tokyo, Japan, [4]School of Tropical Medicine and Global Health, Nagasaki university, Nagasaki, Japan, [5]Graduate School of Biomedical Sciences, Nagasaki university, Nagasaki, Japan

12:30 p.m. 7254

ONCE YOU'VE HAD MALARIA YOU'LL NEVER FORGET (OR WILL YOU?): THE MEMORY B CELL AND PLASMA CELL RESPONSE TO *PLASMODIUM* REINFECTION

Elizabeth M. Fusco, Nathan W. Schmidt
Indiana University School of Medicine, Indianapolis, IN, United States

12:45 p.m. 7255

NEUTRALIZING AND INTERFERING HUMAN ANTIBODIES DEFINE THE STRUCTURAL AND MECHANISTIC BASIS FOR ANTIGENIC DIVERSION

Palak N. Patel, Thayne H. Dickey, Christine S. Hopp, Ababacar Diouf, Wai Kwan Tang, Carole A. Long, Kazutoyo Miura, Peter D. Crompton, Niraj H. Tolia
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

1 p.m. 7256

STRUCTURE GUIDED MIMICRY OF AN ESSENTIAL *P. FALCIPARUM* RECEPTOR-LIGAND COMPLEX ENHANCES CROSS NEUTRALIZING ANTIBODIES

Sean Yanik[1], Varsha Venkatesh[1], Bianca Loveless[2], Deepti Sarkar[1], Kazutoyo Miura[3], Carole Long[3], Martin Boulanger[2], Prakash Srinivasan[1]
[1]Johns Hopkins, Baltimore, MD, United States, [2]University of Victoria, Saanich, BC, Canada, [3]NIAID, Rockville, MD, United States

Scientific Session 172

Mosquitoes- Epidemiology and Vector Control II

Regency Ballroom C - Ballroom Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

CHAIR

Zinsou Come Koukpo
Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

Kristan Schneider
University of Applied Sciences Mittweida, Mittweida, Germany

11:30 a.m. 7257

VERTICAL AND HORIZONTAL TRANSMISSION OF MICROSPORIDIA MB IN *ANOPHELES* ARABIENSIS: EFFECT ON LIFE HISTORY TRAITS

Syeda Tullu Bukhari, Tracy Maina, Aclaine Shisia, Godfred Yaw Boanyah, Jeremy K. Herren
International Center of Insect Physiology and Ecology, Nairobi, Kenya

11:45 a.m. 7258

CHARACTERIZING ANTIBODY RESPONSES TO MOSQUITO SALIVARY ANTIGENS OF THE SOUTHEAST ASIAN MALARIA VECTORS WITH A HUMAN CHALLENGE MODEL OF CONTROLLED EXPOSURE

Victor Chaumeau[1], Ellen Kearney[2], Paul A. Agius[3], Sunisa Sawasdichai[1], Katherine O'Flaherty[2], Praphan Wasisakun[1], Daniela Da Silva Goncalves[2], Laaongsri Niwetphongprai[1], Thaw Htwe Min[1], James Beeson[2], Julie A. Simpson[4], François Nosten[1], Freya Fowkes[2]
[1]Shoklo Malaria Research Unit, Mae Ramat, Thailand, [2]Burnet Institute, Melbourne, Australia, [3]Deakin University, Melbourne, Australia, [4]University of Melbourne, Melbourne, Australia

Noon 7259

ANOPHELES SALIVARY ANTIBODY BIOMARKERS ASSESS THE EFFECTIVENESS OF PERSONAL INSECT REPELLENT AND IDENTIFY FOCI OF MALARIA TRANSMISSION IN SOUTHEAST MYANMAR

Ellen A. Kearney[1], Paul A. Agius[2], Punam Amratia[3], Su Yun Kang[3], Katherine O'Flaherty[1], Win Han Oo[4], Julia C. Cutts[1], Daniela Da Silva Goncalves[1], Kefyalew A. Alene[3], Aung Thi[5], Htin Kyaw Thu[4], Myat Mon Thein[4], Nyi Nyi Zaw[4], Wai Yan Min Htay[4], Aung Paing Soe[4], Naanki Pasricha[1], Brendan Crabb[1], James Beeson[1], Victor Chaumeau[6], Julie A. Simpson[7], Peter Gething[3], Ewan Cameron[3], Freya JI Fowkes[1]
[1]Burnet Institute, Melbourne, Australia, [2]Biostatistics Unit, Faculty of Health, Deakin University, Melbourne, Australia, [3]Malaria Atlas Project, Telethon Kids Institute, Perth, Australia, [4]Burnet Institute, Yangon, Myanmar, [5]Department of Public Health, Myanmar Ministry of Health and Sports, Yangon, Myanmar, [6]Shoklo Malaria Research Unit, Mahidol University, Mae Sot, Thailand, [7]Centre for Epidemiology and Biostatistics, The University of Melbourne, Melbourne, Australia

12:15 p.m. 7260

WIDE AND SUSTAINED LONG-TERM TARGET EFFICACY OF AN INJECTABLE LONG-ACTING IVERMECTIN FORMULATION AGAINST*PLASMODIUM*VECTORS IN THE FIGHT AGAINST MALARIA

Cheick O. Ouedraogo[1], Lamidi Zela[2], Angélique Porciani[3], Dieudonné D. Soma[4], Sié H. Pooda[5], Fabrice A. Somé[1], Joel Tarning[6], Kevin Kobylinski[6], Malik A. Bandaogo[7], Ali Ouari[8], Thibaut Deramoudt[9], André B. Sagna[10], Sophie Le Lamer-Déchamps[11], Christophe Roberge[11], Cédric Pennetier[12], Nicolas Moiroux[3], Guiguigbaza-Kossignan Dayo[13], Roch K. Dabiré[1], Karine Mouline[3]
[1]Institut de Recherche en Sciences de la Santé - IRSS-DRO, Bobo Dioulasso, Burkina Faso, [2]Centre International de Recherche Développement pour l'Elevage en zones Sub-humides - CIRDES, Bobo Dioulasso, Burkina Faso, [3]Institut de Recherche pour le Developpement - IRD, Montpellier, France, [4]Université Nazi Boni, Bobo Dioulasso, Burkina Faso, [5]Université de Dédougou, Dédougou, Burkina Faso, [6]Mahidol Oxford Tropical Medicine Research Unit, Mahidol, Thailand, [7]Centre de Recheche Développement pour l'élevage en zones Sub-humides - CIRDES, Bobo Dioulasso, Burkina Faso, [8]Instut de Recherche en Sciences de la Santé - IRSS-DRO, Bobo Dioulasso, Burkina Faso, [9]MedinCell, Jacou, France, [10]Institut de Recherche pour le Developpement - IRD, Bobo-Dioulasso, Burkina Faso, [11]MedInCell, Jacou, France, [12]Institut de Recherche pour le Developpement - IRD, Bobo Dioulasso, Burkina Faso, [13]Centre International de Recherche Elevage en zones Sub-humides - CIRDES, Bobo Dioulasso, Burkina Faso

12:30 p.m. 7261

INFLUENCE OF ANOPHELINE BITING PREFERENCES ON THE *PLASMODIUM FALCIPARUM* HUMAN INFECTIOUS RESERVOIR IN WESTERN KENYA

Christine Markwalter[1], Zena Lapp[1], Lucy Abel[2], Emmah Kimachas[2], Evans Omondi[1], Betsy Freedman[1], Tabitha Chepkwony[2], Mark Amunga[2], Judith N. Mangeni[3], Steve Taylor[1], Andrew A. Obala[4], Wendy P. O'Meara[1]
[1]Duke University, Durham, NC, United States, [2]Academic Model Providing Access to Healthcare (AMPATH), Eldoret, Kenya, [3]School of Public Health, Moi University, Eldoret, Kenya, [4]School of Medicine, Moi University, Eldoret, Kenya

12:45 p.m. 7262

ASSESSING THE STATISTICAL POWER OF A SEMI-FIELD EXPERIMENT: TESTING SINGLE AND COMBINED INTERVENTIONS AGAINST MALARIA VECTORAN. ARABIENSIS

Andrea M. Kipingu[1], Dickson W. Lwatoejera[2], Samson S. Kiware[2], Mafalda Viana[1], Paul C.D. Johnson[1]
[1]University of Glasgow, Glasgow, United Kingdom, [2]Ifakara Health Institute, Dar Es Salaam, United Republic of Tanzania

1 p.m. 7263

SEMI-FIELD EVALUATIONS OF THE IMPACT OF NOVEL BITE PREVENTION INTERVENTIONS ON *ANOPHELES* MINIMUS LANDING AND KEY LIFE HISTORY TRAITS IN THAILAND

Elodie Vajda[1], Amanda Ross[2], Manop Saeung[3], Arissara Pongsiri[4], David McIver[5], Allison Tatarsky[5], Nakul Chitnis[2], Jeffrey Hii[5], Jason Richardson[6], Michael Macdonald[6], Sarah J. Moore[7], Neil F. Lobo[8], Theeraphap Chareonviriyaphap[3], Alongkot Ponlawat[4]
[1]University of Califonia, San Francisco/University of Basel/Swiss Tropical and Public Health Institute, San Francisco, CA, United States, [2]University of Basel/Swiss Tropical and Public Health Institute, Basel, Switzerland, [3]Kasetsart University, Bangkok, Thailand, [4]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [5]University of Califonia, San Francisco, San Francisco, CA, United States, [6]Innovative Vector Control Consortium, Liverpool, United Kingdom, [7]Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, [8]University of Notre Dame/University of Califonia, San Francisco, Notre Dame, IN, United States

Symposium 173

Plasmepsin Inhibitors: Novel Mechanisms Leading to an Antimalarial Development Candidate

Regency Ballroom D - Ballroom Level (West Tower)
Sunday, October 22, 11:30 a.m. - 1:15 p.m. U.S. Central Time Zone

This session does not carry CME credit.

Phenotypic screens of an aspartyl protease inhibitor library identified potent plasmepsin X (an aspartic protease) hits. Potency, pharmacokinetics and pharmacodynamics properties were optimized by a medicinal chemistry program that yielded clinical candidate MK-7602, a potent dual plasmepsin IX (an aspartic protease related to plasmepsin X but having distinct protein substrates) and X inhibitor with robust *in vivo* efficacy against liver, blood, and transmission stages of the malaria parasite life cycle. This compound has an excellent resistance profile with a very high barrier to the selection of resistance by *P. falciparum* and has advanced into a first in human phase 1 clinical trial. Speakers will convey the biological advantages of targeting highly conserved plasmepsin enzymes that culminate in the discovery

of antimalarial drug candidate MK-7602. More specifically, data will be presented on: 1) the essential highly conserved molecular targets plasmepsin IX and X; 2) drug resistance in malaria and data describing the high barrier for the development of resistance in *P. falciparum* for dual targeting plasmepsin inhibitors; 3) data demonstrating robust long-lasting immunity in mice for liver-stage plasmepsin treated animals (ChemoVaccination), and how this sporozoite derived immunity could confer long lasting immunity against malaria clinically; 4) the breadth of spectrum of dual targeting plasmepsin inhibitors including activity against *P. falciparum*, P. vivax and P. knowlesi; 5) a detailed understanding of the in vivo pharmacokinetic and pharmacodynamic properties of plasmepsin inhibition, and; 6) how these parameters culminate in the discovery of and early clinical data for MK-7602.

CHAIR

Alan F. Cowman
The Walter and Eliza Hall Institute of Medical Research, Parkville, Australia

David Olsen
Merck and Co Inc, West Point, PA, United States

11:30 a.m.
INTRODUCTION

11:40 a.m.
DEVELOPMENT OF PLASMEPSIN IX/X DUAL INHIBITORS - BIOLOGY AND MECHANISM OF ACTION

Alan F. Cowman
WEHI, Parkville, Australia

Noon
DUAL PLASMEPSIN INHIBITORS: 3 STAGE MALARIA INHIBITORY POTENCY AND ROBUST *P. FALCIPARUM* RESISTANCE PROFILE

Paola Favuzza
The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia

12:20 p.m.
CHALLENGES OF *P. VIVAX* MALARIA TREATMENT: PLASMEPSIN INHIBITOR PROFILING

Agnes Orbanova
Malaria Research Unit, Institut Pasteur du Cambodge, Phnom Penh, Cambodia

12:40 p.m.
SAFETY, TOLERABILITY, AND PHARMACOKINETICS OF THE ANTIMALARIAL MK-7602 IN HEALTHY PARTICIPANTS

Susan E. Stanley
Merck and Co Inc, Boston, MA, United States

1 p.m.
CHEMOVACCINATION: LIVER STAGE PLASMEPSIN INHIBITOR PHARMACOLOGY LEADING TO LONG LASTING IMMUNITY TO REINFECTION

Justin A. Boddey
The Walter and Eliza Hall Institute of Medical Research, Parkville, Australia

ASTMH 2023 Annual Meeting Adjourns

Sunday, October 22, 1:15 p.m. U.S. Central Time Zone

See you next year at the 2024 Annual Meeting

October 23-27, 2024 (Wednesday through Sunday)
New Orleans Ernest N. Morial Convention Center
New Orleans, Louisiana, United States

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