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

VOLUME 107 OCTOBER 2022 NUMBER 4 SUPPLEMENT

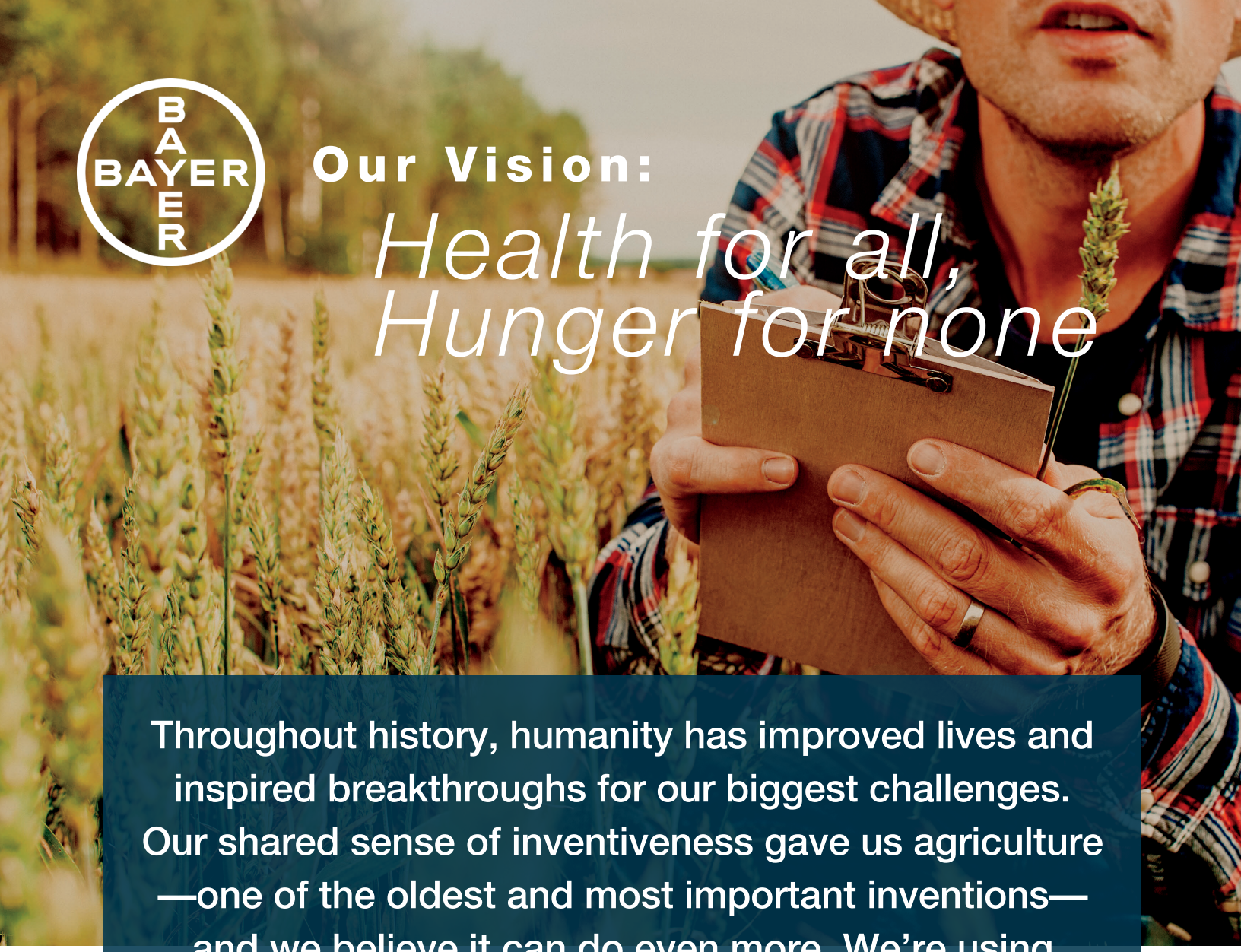
2022 October 30 – November 3

ANNUAL MEETING

Seattle Convention Center | Seattle, Washington, USA

PROGRAM BOOK

Supplement to
The American Journal of Tropical Medicine and Hygiene



Our Vision:

Health for all, Hunger for none

Throughout history, humanity has improved lives and inspired breakthroughs for our biggest challenges. Our shared sense of inventiveness gave us agriculture —one of the oldest and most important inventions— and we believe it can do even more. We're using innovation to shape what's possible for farmers, consumers, and the planet. We seek to deliver world-class science, set new standards in sustainability, and drive digital transformation.

COME SEE US AT BOOTH #205! ASK ABOUT AGRICULTURE & OUR ROLE IN *Health for all, Hunger for none*

Science for a ***better life***

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Welcome to #TropMed22, your access to all that is new, evolving, challenging, successful and exciting in tropical medicine and global health. For the first time in three years, the Annual Meeting is taking place in person.

We can't think of a better group of minds that we would want together right now as we reflect on what happened during the COVID-19 pandemic and in the midst of this monkeypox outbreak. We are so excited to be with you all for these conversations.

For those of you unable to attend in person, we welcome you to join us virtually via the 50 or so sessions that are being livestreamed throughout the meeting.

Kicking off this year's meeting will be our keynote speaker, Maurício L. Barreto, an Emeritus University Professor at Universidade Federal da Bahia in Brazil and a Senior Investigator of Fundação Oswaldo Cruz (Fiocruz). Dr. Daniel G. Bausch will deliver the President's Address, "Poverty, Inequalities, Social Justice and Health: Notes from Brazil." The Craig Lecture will be delivered by Dr. Patty J. García, a Professor at the School of Public Health at Cayetano Heredia University (UPCH) in Lima-Peru and a member of the U.S. National Academy of Medicine.

The Commemorative Lecture will be different this year, featuring trainees and junior colleagues Dr. Hanna Ehrlich (a past ASTMH Board member), Dr. Bartholomew Ondigo (a current Board member) and Oyeronke Oyebanji sharing perspectives as they navigate their career paths. This year's Alan J. Magill Malaria Eradication Symposium will look at some of the challenges facing malaria elimination progress, and we have special sessions on monkeypox and pandemics. The popular Innovations Pitch Competition is back, featuring five finalists proposing innovative solutions for global health and equitable sharing.

All of this plus the cutting-edge content on malaria, protozoa, viral infections and the rest you have come to expect. Find it all on the meeting app, available for free at the App Store and Google Play. And be sure to check out the offerings and information from our sponsors and exhibitors at the Opening Reception, along with complimentary food and drink. They make all of the above possible.

We look forward to seeing you again for our long-awaited in-person Annual Meeting!

¡¡Bienvenido a #TropMed22!! Estamos emocionados de traerles todo lo que es nuevo, en evolución, desafiante, exitoso y emocionante en medicina tropical y salud global. Por primera vez en tres años, la Reunión Anual se lleva a cabo de manera presencial. Estamos ansiosos por verlos, ser parte de reuniones improvisadas en los pasillos y, sí, dar y recibir nuestra parte de abrazos.

No podemos pensar en un mejor grupo de mentes que querríamos juntas en este momento mientras reflexionamos sobre lo que sucedió durante la pandemia de COVID-19 y el brote de MPXV de 2022. Esperamos tener estas conversaciones con usted.

Para aquellos de ustedes que no puedan asistir de manera presencial, les damos la bienvenida virtualmente a través de las más de 50 sesiones transmitidas en vivo durante la reunión.

El inicio de la reunión de este año estará a cargo de nuestro orador principal, el Dr. Maurício L. Barreto, profesor emérito de la Universidade Federal da Bahia en Brasil e investigador principal de la Fundação Oswaldo Cruz (Fiocruz). El Dr. Daniel G. Bausch pronunciará el discurso del presidente, "ASTMH: ¿Un medio para qué fin? La Conferencia Craig estará a cargo de la Dra. Patty J. García, Profesora de la Escuela de Salud Pública de la Universidad Cayetano Heredia (UPCH) en Lima-Perú y miembro de la Academia Nacional de Medicina de los Estados Unidos. El popular Innovations Pitch Competition está de regreso, con cinco finalistas que proponen soluciones innovadoras para la salud global y el intercambio equitativo.

La conferencia conmemorativa tiene un nuevo giro este año, ya que presenta a nuestros jóvenes colegas, la Dra. Hanna Ehrlich (ex miembro de la Junta de ASTMH), el Dr. Bartholomew Ondigo (miembro actual de la Junta), y Oyeronke Oyebanji, que comparten perspectivas a medida que navegan por sus carreras de salud global. El Simposio de Erradicación de la Malaria Alan J. Magill de este año evaluará los desafíos que enfrenta la eliminación de la malaria. También tenemos sesiones especiales sobre la viruela símica y lo que sigue con respecto a infecciones emergentes y reemergentes, brotes, vigilancia de enfermedades y respuesta mejorada.

Todo esto más el contenido de vanguardia sobre malaria, protozoos, arbovirus, helmintos, equidad en salud, salud planetaria y el resto que espera en ASTMH cada año. Encuéntrelo todo en la aplicación de reuniones, disponible de forma gratuita en App Store y Google Play. Asegúrese de consultar las ofertas y la información de nuestros patrocinadores y expositores en la Recepción de apertura, junto con alimentos y bebidas de cortesía. Ayudan a hacer posible todo lo anterior.

¡Esperamos verlo nuevamente para nuestra tan esperada reunión anual de manera presencial!

Bienvenue au partenariat # TropMed22, votre accès à tout ce qui est nouveau, évolutif, stimulant, efficace et passionnant en matière de médecine tropicale et de santé mondiale. Pour la première fois en trois ans, la réunion annuelle se déroule en personne.

Nous ne pouvons imaginer un meilleur groupe d'esprits que celui que nous aimerions réunir en ce moment pour analyser les événements survenus pendant la pandémie de COVID-19 et au milieu de cette épidémie de variole du singe. Nous sommes très ravis de vous avoir tous parmi nous pendant ces conversations.

Pour ceux d'entre vous qui ne peuvent pas assister à la réunion en personne, nous vous vous invitons à nous joindre virtuellement par le biais de plus de la cinquantaine de séances diffusées en direct tout au long de la réunion.

Le coup d'envoi de la réunion de cette année sera donné par notre orateur principal, Maurício L. Barreto, professeur émérite à l'Universidade Federal da Bahia au Brésil et chercheur principal de la Fundação Oswaldo Cruz (Fiocruz). Le Dr Daniel G. Bausch prononcera le discours du président, intitulé « Pauvreté, inégalités, justice sociale et santé » : Notes du Brésil » La conférence Craig sera donnée par le Dr Patty J. García, professeur à l'École de santé publique de l'université Cayetano Heredia (UPCH) à Lima-Pérou et membre de l'Académie nationale de médecine des États-Unis.

La conférence commémorative a une nouvelle tournure cette année, avec nos stagiaires et jeunes collègues le Dr Hanna Ehrlich (ancien membre du Conseil d'administration de l'ASTMH), le Dr Bartholomew Ondigo (membre actuel du Conseil d'administration) et Oyeronke Oyebanji, qui partageront leurs points de vue sur leur parcours professionnel. Le symposium Alan J. Magill sur l'éradication du paludisme de cette année se penchera sur certains des défis auxquels sont confrontés les progrès de l'élimination du paludisme, et nous avons prévu des séances spéciales sur la variole du singe et les pandémies. Le célèbre concours Innovations Pitch est de retour, avec cinq finalistes proposant des solutions innovantes pour la santé mondiale et le partage équitable.

Tous ces éléments ajoutés au contenu à la pointe de la technologie sur le paludisme, les protozoaires, les infections virales et le reste, auquel vous êtes habitués. Vous trouverez tout sur l'application de la réunion, disponible gratuitement sur App Store et Google Play. Et n'oubliez pas de consulter les offres et les informations de nos sponsors et exposants lors de la réception d'ouverture, et de profiter du repas et des boissons offertes. Ils facilitent la réalisation des activités sus-évoquées.

Nous sommes impatients de vous revoir pour notre réunion annuelle en présentiel, tant attendue !

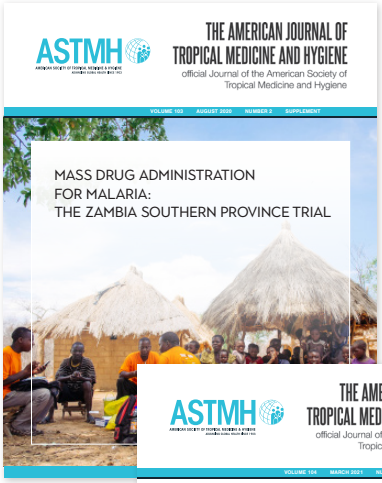
Christine A. Petersen, DVM, PhD, FASTMH
Scientific Program Chair

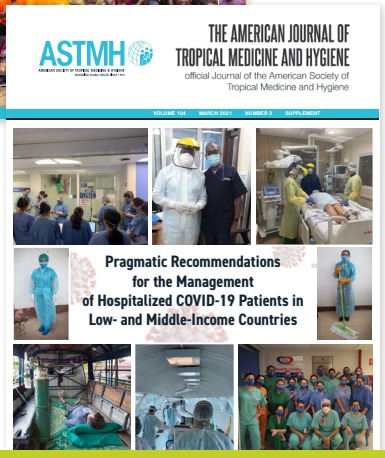
Stephen Popper, ScD
Associate Scientific Program Chair

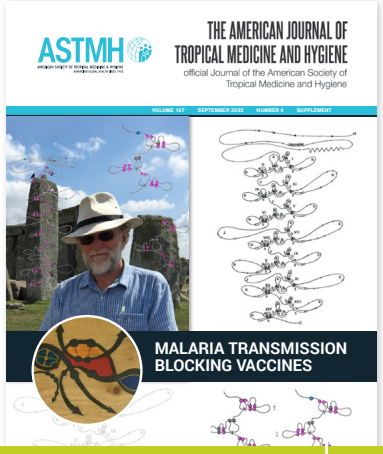
Daniel G. Bausch, MD, MPH&TM, FASTMH
President

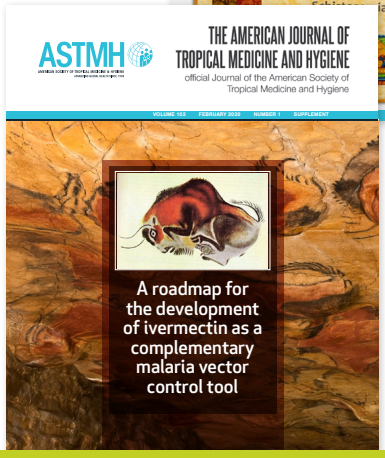
Karen A. Goraleski
CEO

The *American Journal of Tropical Medicine and Hygiene* publishes special supplemental issues annually 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 Cathi Siegel, Managing Editor and Publisher, at journal@ajtmh.org.

PATTY MURRAY
WASHINGTON

COMMITTEES:
APPROPRIATIONS
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HEALTH, EDUCATION, LABOR, AND PENSIONS
VETERANS' AFFAIRS

United States Senate
WASHINGTON, DC 20510–4704

October 30, 2022

I am pleased to welcome you to the American Society of Tropical Medicine and Hygiene's (ASTMH) 2022 Annual Meeting—and pleased to welcome the summit itself to the great state of Washington, which has a long track record of leadership in global health, science, technology, and research.

Every year, this meeting brings together the world's foremost experts in tropical medicine and hygiene to make advances on one of our world's most pressing problems— protecting global health. The challenges you are all focused on have never been more urgent. I applaud ASTMH for organizing what promises to be a highly successful summit, and I look forward to seeing what advances come out of this year's conference.

I have always been a passionate advocate for public health and health care, and for making sure our most vulnerable populations get equitable treatment and access to such services. Today, more than ever, we need to focus on equity in global health. Too many children and adults are dying from preventable infectious diseases, even as we continue to make promising developments in vaccines, tests, treatments, and other public health measures. Over 627,000 people died of malaria alone in 2020, and over 75% of those deaths were young children. That is heartbreaking, and unfortunately, as everyone here knows all too well, just the tip of the iceberg. The world is also still battling COVID-19, monkeypox outbreaks, and a new Ebola outbreak, on top of a lack of clean water, nutrition, and sanitation services and the ever-increasing occurrence of environmental disasters. We can and must do better.

We must work together to address emerging tropical diseases, because no one is safe from these diseases until everyone is safe. We must strengthen our preparedness and response systems, and invest in a public health system that serves us all. That is why I have been so proud of passing the *PREVENT Pandemics Act* through the Health, Education, Labor, and Pensions Committee, which I chair, and why I have been pushing to bolster our public health funding as well. I worked with Ranking Member Burr and members of both parties to ensure the PREVENT Act increases our surveillance capabilities to detect new threats, improves our forecasting abilities to predict new threats, and enhances our laboratory capacity and medical supply chains. This bill is a step forward in protecting global health, and rest assured that I am pushing every day for its passage—and I will continue to fight for global health authorities, funding, and resources.

The insight of experts like those gathered here will continue to be critical to informing those efforts, as well as the efforts of communities across the country and across the world. Thank you and I look forward to continued collaboration with each of you on protecting global health and preventing tropical diseases. I know that this meeting will form lasting partnerships and foster an exchange of ideas that will save lives for years to come.

Sincerely,

Patty Murray

Patty Murray
United States Senator

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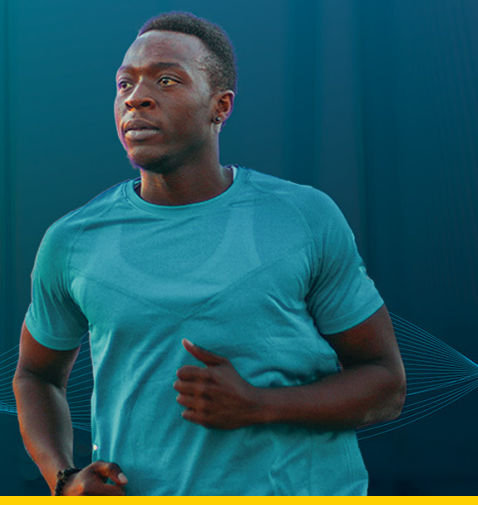
ASTMH 2022 ANNUAL MEETING



ALSO VISIT US AT **BOOTH #131** IN THE EXHIBIT HALL

ABBOTT SPONSORED SYMPOSIUM

While attending the ASTMH 2022 Annual Meeting, join Abbott for our sponsored symposium, held in conjunction with the Annual Meeting.

CHALLENGES IN MALARIA DIAGNOSTICS AND THE NEED FOR NEXT GENERATION TESTS

Wednesday, November 2, 2022 | 5:15 – 7:00 PM

Seattle Convention Center, Room 611/612

In order to combat malaria and accurately identify malaria infected individuals, diagnostics must adapt to the ever changing malaria landscape. Histidine-rich protein 2/3 (HRP2/3) negative *P. falciparum* parasites continue to spread and *P. vivax* control and elimination has become a top priority.

In this sponsored symposium, join a panel of malaria stakeholders as they share the diagnostic challenges that exist on the ground, their needs for innovation and how to avoid standing still so that new and emerging technologies are accessible to the communities who desperately need them.

Conference registration is required to participate in the program.

This sponsored symposium is made possible through the generous support of Abbott.

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ROCHE

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.

ASTMH THANKS THE FOLLOWING PARTNERS

Center for Compassionate Leadership **Kikundi**

ASTMH thanks and acknowledges NIH for their support of the 2022 Annual Meeting.

Funding for this conference was made possible [in part] by 1R13AI172243-01 from the National Institute of Allergy and Infectious Diseases. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

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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.

In-Person attendees have access to the On-Demand content until October 1, 2023.

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

(ePosters available through April 30, 2023)

Attendee Benefit! Included in Registration!

JOIN TODAY!

ASTMH Membership

Be a Member — Join ASTMH

We invite you to join ASTMH and benefit from membership in the premier international organization for professionals involved in tropical medicine and global health. ASTMH provides a forum for sharing scientific advances, exchanging ideas, fostering new research and providing professional education.

Join online at astmh.org or visit the **TropMed Hub** in the Exhibit Hall for more information.

Advantages of ASTMH 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 page charges for publishing 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

Membership Dues

Student (Undergraduate, Graduate, Pre-Doctoral): **$15**

Trainee (Post-Doctoral, Resident, Fellow): **$25**

Early-Career: **$100**

Regular Member: **$250**

Regular Member: Low/Low-Middle Income Countries: **$25**

Fellow of ASTMH (FASTMH): $50 voluntary contribution

Lifetime: **$4,600**

Affiliate Membership in high income country: **$500**

Affiliate Membership in LMIC: **$250**

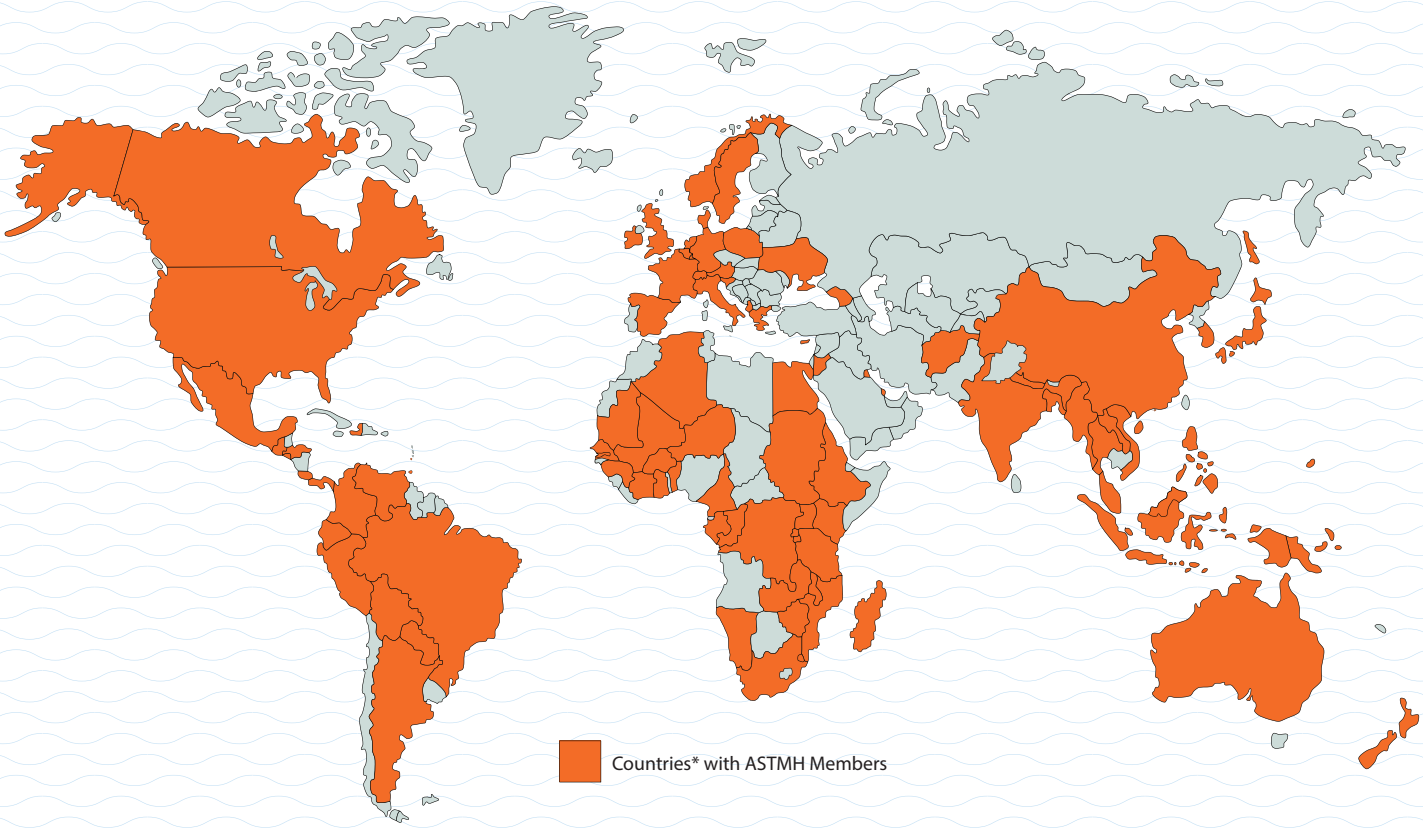
Welcome to our Members from Low and Lower-Middle Income Countries!

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.

ASTMH Members Across Six Continents

(as of July 2022)



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GLOBAL INSTITUTE FOR DISEASE ELIMINATION

MALARIA AND NTD INTEGRATION
FROM SILOS TO SYNERGIES

Tuesday 1 November 2022
7:00AM - 8:45AM PST
Room 613/614

Join the Global Institute for Disease Elimination (GLIDE) for our Sponsored Symposium, held alongside the ASTMH 2022 Annual Meeting. This panel discussion will highlight the importance of cross-program integration to increase the efficiency of resources and operations, sustainability, and community acceptance. It will also provide a platform for disease programs to share key lessons and approaches for practical implementation of cross-program integration.

For more information please contact info@glideae.org

Become a Student Member of ASTMH

$15

Available to full-time undergraduate and graduate students in the fields of global health, international health, tropical medicine or a related discipline.

Visit **astmh.org** to learn more about ASTMH membership.

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JOIN TODAY!

Join 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.

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.

#IamTropMed
#ASTMHinclusion

THE ROAD TO MALARIA ELIMINATION IN BONNY ISLAND

Using community health structure
with private sector support

THE BONNY MALARIA ELIMINATION PROJECT

Nigeria LNG Limited is working in partnership with US-PMI through the Bonny Malaria Elimination Project to make Bonny Island Nigeria's first malaria free zone and a tourist haven. This initiative along with other health interventions will promote rapid socio-economic development for the residents of the Island.

Nigeria LNG Limited

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Sunday, October 30, 2022

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<tr><td>10:30 – 11 a.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>11 – 11:30 a.m.</td><td></td><td rowspan="2">ACAV SIE Subcommittee</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>11:30 a.m. – Noon</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Noon – 12:30 p.m.</td><td></td><td rowspan="4">ACAV SIRACA Subcommittee</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>12:30 – 1 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>1 – 1:30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>1:30 – 2 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>2 – 2:30 p.m.</td><td></td><td rowspan="3">ACAV SALS Subcommittee</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>2:30 – 3 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="2">Student Reception</td><td></td><td></td><td></td></tr>
<tr><td>3 – 3:30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>3:30 – 4 p.m.</td><td></td><td rowspan="4">ACAV Council Meeting</td><td rowspan="4">ACME Council Meeting</td><td rowspan="4">ACMCIP Council Meeting</td><td rowspan="4">Clinical Group Council Meeting</td><td rowspan="4">ACGH Council Meeting</td><td></td><td></td><td></td><td></td></tr>
<tr><td>4 – 4:30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>4:30 – 5 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>5 – 5:30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>5:30 – 6 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="3">LIVE STREAMING
Opening Plenary Session and Awards Program P. 102</td><td></td><td></td></tr>
<tr><td>6 – 6:30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>6:30 – 7 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>7 – 7:30 p.m.</td><td rowspan="4">Opening Reception and Exhibits</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>7:30 – 8 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>8 – 8:30 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>8:30 – 9:00 p.m.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

Sunday, October 30, 2022

	Room 606/607	Room 608/609	Room 611/612	Room 613/614	Room 615/616/617	Room 618/619/620	Sheraton – Cirrus Ballroom		
8 – 8:30 a.m.							Metagenomics Pre-Meeting Course: Using Metagenomics to Survey Vector-Based Pathogens P. 90		
8:30 – 9 a.m.									
9 – 9:30 a.m.	Young Investigator Award Session C P.94	Young Investigator Award Session D P. 95	Young Investigator Award Session E P. 97	Young Investigator Award Session F P. 98					
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. 100				
11:30 a.m. – Noon									
Noon – 12:30 p.m.									
12:30 –1 p.m.									
1 – 1:30 p.m.						First-Time Attendee Orientation			
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.									
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, 2023.

LIVE STREAMING

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

(ePosters available through April 30, 2023)

Monday, October 31, 2022

	Exhibit Hall 4BC	Poster Hall 4A	Room 6AB	Room 6C	Room 6E	Room 602/603/604	Room 605/610
8 – 8:30 a.m.			LIVE STREAMING 2 Scientific Session Malaria: Developments in Antimalarial Resistance and Chemoprev. P. 105	LIVE STREAMING 3 Symposium Structure-Based Development of a Second-Generation CSP Vaccine P. 105	4 Scientific Session Global Health: Maternal, Newborn & Child Health P. 106	LIVE STREAMING 5 Scientific Session Schistosomiasis I: Immunology, Pathology, Mol. Bio., Dx and Rx P. 107	6 Scientific Session ACMCIP: Parasite Biology and Interventions P. 108
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.	Poster Session A Set-Up					
10 – 10:30 a.m.							
10:30 – 10:45 a.m.		Poster Session A Viewing	13 Plenary Session II Charles Franklin Craig Lecture (In-Person-Only) P. 113				
10:45 – 11 a.m.							
11 – 11:30 a.m.	Exhibit Hall Open	14 Poster Session A Presentations P. 114					
11:30 a.m. – Noon						LIVE STREAMING 16 Late-Breakers in Basic Science P. 161	
Noon – 12:30 p.m.							
12:30 – 1 p.m.		Poster Session A Viewing	LIVE STREAMING 17 Symposium Alan J. Magill Malaria Eradication Symposium P. 161	LIVE STREAMING 18 Scientific Session Global Health Security and COVID-19 P. 162	19 Symposium From the Panama Canal to the Pantanal: Emerging Zoonotic Arboviruses in the Neotropics P. 163	LIVE STREAMING 20 Scientific Session ACMCIP: Protozoans- Cellular and Molecular Parasitology P. 163	21 Scientific Session Schistosomiasis II: Epidemiology and Control P. 164
1 – 1:30 p.m.							
1:30 – 2 p.m.							
2 – 2:30 p.m.							
2:30 – 3 p.m.	Exhibit Hall Open Coffee Break 2:30 p.m. – 3 p.m.						
3 – 3:30 p.m.			LIVE STREAMING 28 Scientific Session Malaria: Improving the Evidence Base for Elimination P. 169	LIVE STREAMING 29 Symposium ACGH I: Role of Women in Advancing Global Health P. 170	30 Symposium Rx and Prevention of Malaria during Pregnancy in High-Risk Groups in SSA P. 171	LIVE STREAMING 31 Scientific Session ACMCIP: Parasite Immunology P. 172	32 Symposium New Dual AI Nets for Malaria Control in Settings of Vector Resistance P. 172
3:30 – 4 p.m.							
4 – 4:30 p.m.		Poster Session A Dismantle					
4:30 – 4:45 p.m.							
4:45 – 5 p.m.							
5 – 5:30 p.m.							
5:30 – 6 p.m.			LIVE STREAMING 39 Scientific Session Malaria Dx: Challenges and Innov P. 177	LIVE STREAMING 40 Scientific Session Clinical Tropical Medicine: Diagnostics and Febrile Syndromes P. 178	41 Symposium Malaria Prog in Discovery and Clin Dev of Anti-Malaria mAbs P. 179	LIVE STREAMING 42 Scientific Session Viral Hemorrhagic Fevers P. 179	43 Symposium Scaling up World's First Malaria Vaccine Recommended for Use P. 180
6 – 6:30 p.m.							
6:30 – 7 p.m.							
7 – 7:30 p.m.				LIVE STREAMING Sponsored Symposium Biotechnology for Vector Control: Scaling for Impact P. 56 and 185		LIVE STREAMING Sponsored Symposium Child Immunization: Struggles and Strategies during COVID-19 P. 55 and 185	
7:30 – 8 p.m.							
8 – 8:30 p.m.							
8:30 – 9:00 p.m.							

Monday, October 31, 2022

	Room 606/607	Room 608/609	Room 611/612	Room 613/614	Room 615/616/617	Room 618/619/620
8 – 8:30 a.m.	7 Symposium Progress towards Dev. Gene Drive Mosquitoes in Fight against Malaria P. 108	8 Scientific Session Entomology: Mosquitoes-Vector Biology-Epidemiology I P. 109	9 Scientific Session Filariasis: Clinical, Immunology, Diagnostics P. 110	10 Symposium Biomarkers of Chagas Disease Progression and Treatment Efficacy P. 111	11 Symposium Electronic Data Capture (EDC) Technology during MDA for NTD Program Implementation P. 111	12 Symposium ANC Surveillance: An Old Platform for New Users? P. 112
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						
Noon – 12:30 p.m.						
12:30 –1 p.m.						
1 – 1:30 p.m.	22 Symposium Care for Afghan Evacuees to the U.S. P. 165	23 Scientific Session Mosquitoes: Molecular Genetics P. 165	24 Symposium Zeroing in on Infectious Reservoir in Areas of Declining Transmission in SSA P. 166	25 Scientific Session Ectoparasite-Borne Disease P. 167	26 Scientific Session Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Interventions P. 168	27 Symposium Financial Incentive Strategies to Improve Quality of Care: Lessons from HIV, Newborn Care and Malaria Case Management P. 168
1:30 – 2 p.m.						
2 – 2:30 p.m.						
2:30 – 3 p.m.						
3 – 3:30 p.m.	LIVE STREAMING 33 Symposium Monkeypox: Perspectives on an Outbreak Bio, Epi and Social Narrative P. 173	34 Symposium ACME I: Annual Business Meeting, Awards and Hoogstraal Medal Presentations P. 173	35 Scientific Session Filariasis – Epidemiology and Control P. 174	36 Symposium NTD at Home: STH Lack of Adequate Sanitation in Southeastern United States P. 175	37 Scientific Session Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Outcomes P. 175	38 Symposium The Benefits of Electron Data to Improve Information and Decision-Making for Disease Elimination and Eradication P. 176
3:30 – 4 p.m.						
4 – 4:30 p.m.						
4:30 – 4:45 p.m.						
4:45 – 5 p.m.						
5 – 5:30 p.m.						
5:30 – 6 p.m.	44 Scientific Session Global Health: Neglected Tropical and Non-Communicable Diseases P. 181	45 Symposium ACME II: Preparing ACME Professionals for Science in Warmer, Wetter, More Populated World P. 182	46 Symposium Advances in Enteric Fever Diagnostics P. 182		47 Symposium Ecological Drivers of Powassan Encephalitis Emergence in North America P. 183	48 Symposium *P. vivax* and Relapsing Malaria P. 183
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.						

Tuesday, November 1, 2022

	Exhibit Hall 4BC	Poster Hall 4A	Room 6AB	Room 6C	Room 6E	Room 602/603/604	Room 605/610
7 – 8 a.m.				50 Special Session Tips from the ASTMH Green Task Force P. 186			
8 – 8:30 a.m.							
8:30 – 9 a.m.							
9 – 9:30 a.m.			51 Plenary Session III: Commemorative Lecture P. 186				
9:30 – 10 a.m.	Exhibit Hall Open Coffee Break 9:45 a.m. – 10:15 a.m.	Poster Session B Set-Up					
10 – 10:30 a.m.		Poster Session B Viewing	52 Scientific Session Flavivirus Vaccines and Immunity P. 187	53 Scientific Session ACMCIP: Malaria: Immunology and Vaccines P. 188	54 Scientific Session Malaria: Drugs and Clinical Trials P. 189	55 Symposium Innovations Pitch Competition: Global Health Human Rights P. 190	56 Symposium Dev and Clin Eval of Genetically Atten., Rep. Competent, Late Arresting (LARC) PfSPZ Vaccines in Mosquitoes or Bioreactors P. 190
10:30 – 10:45 a.m.							
10:45 – 11 a.m.							
11 – 11:30 a.m.							
11:30 a.m. – Noon							
Noon – 12:30 p.m.	Exhibit Hall Open	63 Poster Session B Presentations P. 196	63A Symposium Demystifying NIH Grants for Trainees P. 240	64 Late-Breakers in Clinical and Applied Sciences P. 240			
12:30 – 1 p.m.							
1 – 1:30 p.m.							
1:30 – 2 p.m.		Poster Session B Viewing 12:45 – 4 p.m.	65 Scientific Session Malaria Vaccine Dev and Human Trials P. 240	66 Symposium ACGH II: Health System Resiliency: Lessons from Pandemics and Climate Change P. 241	67 Symposium ACAV I: Annual Business Meeting P. 242	68 Scientific Session Mosquitoes: Insecticide Resistance and Control P. 242	69 Scientific Session Kinetoplastida and Other Protozoa: Molecular Biology and Immunology P.243
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	76 Scientific Session Malaria: Approaches for Biology and Pathology P. 249	77 Symposium A Scientist's Cheat Sheet to Understanding Washington, DC P. 250		79 Scientific Session Integrated Control Measures for NTDs P. 250	80 Symposium Paradigm for Elimination of NTDs in Africa: African Leishmaniases Consortium Approach P. 251
4:30 – 4:45 p.m.							
4:45 – 5 p.m.							
5 – 5:30 p.m.							
5:30 – 6 p.m.							
6 – 6:30 p.m.			87 Scientific Session Malaria: Immune Responses P. 256	88 Symposium Stories from the Field Hosts ASTMH's First StorySlam P. 257		89 Symposium Advances in Point-Of-Care Technologies for NTDs P. 258	
6:30 – 7 p.m.							
7 – 7:30 p.m.							
7:30 – 8 p.m.							

Tuesday, November 1, 2022

	Room 606/607	Room 608/609	Room 6 11/612	Room 613/614	Room 615/616/617	Room 618/619/620
7 – 8 a.m.				LIVE STREAMING Sponsored Symposium Malaria and NTD Integration: From Silos to Synergies P. 56 and 186	Sponsored Symposium Arboviral Diseases: An Emerging and Re-Emerging Public Health Threat P. 57 and 185	
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.	57 Symposium Global Health Leaders in Analytics and Modelling: A New Generation of Modellers in LMICs P. 191	58 Symposium to Honor the Life and Career of Dr. Philip K. Russell, FASTMH P. 192	59 Symposium Arthropod Saliva: Current Research Avenues and Future Opportunities P. 192	60 Symposium SOS! How the Schistosomiasis Oversampling Study Informs Optimal Sampling P. 193	61 Scientific Session Mosquitoes-Vector Biology-Epidemiology II P. 194	62 Scientific Session Alphaviruses P. 194
10:30 – 10:45 a.m.						
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.	70 Symposium ACMCIP I: Insights into the Pathogenesis of Parasitic Infections Gained from Multi-omics P. 244	71 Symposium Clinical Group I: Marcolongo Lecture: Practical Aspects of Travelers' Diarrhea for the Clinician P. 244	72 Symposium Improve Preventive Chemotherapy for NTD: Adaptation of a Quality Improvement Model P. 246	73 Symposium Challenges and Opportunities in the Management of Diarrhea among Children with Wasting P. 246	74 Scientific Session Arthopods: Other Arthropods P. 247	75 Symposium Breaking the Silos between Tropical Medicine and Sexual and Reproductive Health: Equity, Integration and Sustainability P. 248
2 – 2:30 p.m.						
2:30 – 3 p.m.						
3 – 3:30 p.m.						
3:30 – 4 p.m.						
4 – 4:30 p.m.	81 Symposium ACMCIP II: Trager and Trainee Awardee Symposium P. 252	82 Symposium Clinical Group II: Practical Considerations of When and How to Manage Helminth Infections in Non-Endemic Areas P. 252	83 Scientific Session Bacteriology: Enteric Infections P. 253	84 Scientific Session One Health: The Interconnection between People, Animals, Plants and Their Shared Environment P. 254	85 Symposium WHO Verification Guidelines for Onchocerciasis Elimination: Defining Onchocerciasis Transmission Zones in LF Co-Endemic East Africa P. 255	86 Symposium Overcoming Neglected Challenges to Malaria Elimination to Reach the Last Mile P. 255
4:30 – 4:45 p.m.						
4:45 – 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.						

Wednesday, November 2, 2022

	Exhibit Hall 4BC	Poster Hall 4A	Room 6AB	Room 6C	Room 6E	Room 602/603/604	Room 605/610
8 – 8:30 a.m.			LIVE STREAMING 90 Scientific Session Malaria Epi, Surveillance and Data Utilization P. 259	LIVE STREAMING 91 Symposium Emergence of Artemisinin Resistance in East Africa P. 260	92 Symposium Pandemic Surveillance and Pathogen Prediction P. 261	LIVE STREAMING 93 Symposium Molecular Surveillance in Africa P. 261	94 Scientific Session Cestodes and Nematodes P. 262
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.						
		Poster Session C Set-Up					
10 – 10:30 a.m.							
		Poster Session C Viewing	LIVE STREAMING 101 Plenary Session IV President's Address P. 268				
10:30 – 10:45 a.m.							
10:45 – 11 a.m.							
11 – 11:30 a.m.	Exhibit Hall Open	102 Poster Session C Presentations P. 269					
11:30 a.m. – Noon			LIVE STREAMING 103 Late-Breakers in Malaria P. 311	LIVE STREAMING 104 Late-Breakers in Virology P. 311			
Noon – 12:30 p.m.							
12:30 – 1 p.m.							
		Poster Session C Viewing	LIVE STREAMING 105 Scientific Session Plasmodium Genetics and Genomic Epi P. 311	LIVE STREAMING 106 Scientific Session Global Health: Planetary Health P. 312	107 Symposium Genomic Surveillance Capacity Building for Global Health P. 313	LIVE STREAMING 108 Symposium Vaccines that Interrupt Malaria Transmission (VIMT) – Dev, Eval and Imp P. 313	109 Scientific Session Bacteriology: Enteric infections - V. Cholerae and *E. coli* P. 314
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.			LIVE STREAMING 116 Scientific Session Malaria: Delivery of Interventions P. 319	LIVE STREAMING 117 Symposium Democratization and Decolonization of Tropical Medicine and Global Health P. 320	118 Symposium Implementation of Multiplex Serologic Methods: Multi-Pathogen Surveillance to Inform Public Health Decision Making P. 321	LIVE STREAMING 119 Symposium Invasion of Anopheles stephensi into Africa P. 321	120 Scientific Session Bacteriology: Trachoma, Systemic Infections and Other Bacterial Infections P. 322
3:30 – 4 p.m.							
4 – 4:30 p.m.		Poster Session C Dismantle					
4:30 – 4:45 p.m.							
4:45 – 5 p.m.							
5 – 5:30 p.m.							
5:30 – 6 p.m.						LIVE STREAMING Sponsored Symposium The Road to Malaria Elimination Using Community Health Structures with Private Sector Support in Bonny Island, Nigeria P. 57 and 328	
6 – 6:30 p.m.							
6:30 – 7 p.m.							
7 – 7:30 p.m.							
7:30 – 8 p.m.							

Wednesday, November 2, 2022

	Room 606/607	Room 608/609	Room 611/612	Room 613/614	Room 615/616/617	Room 618/619/620
8 – 8:30 a.m.	95 Symposium Hepatitis E: Epidemiology, Evidence, and Vaccine Policy P. 263	96 Scientific Session Mosquitoes - Biochemistry and Molecular Biology P. 264	97 Symposium Integration of Female Genital Schistosomiasis into Health Systems and Reproductive Healthcare P. 264	98 Symposium Implement Seasonal Chemorx in New Geographies outside Sahel P. 265	99 Symposium ACAV II: Zoonotic and Arbo-viruses: One Health Research and Response P. 266	100 Symposium Building Research Capacity in LMICs and Pandemic Preparedness: Lessons Learned, Future Directions P. 267
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						
Noon – 12:30 p.m.						
12:30 –1 p.m.						
1 – 1:30 p.m.	110 Scientific Session Flavivirus Transmission and Virus-Host Interactions P. 315	111 Symposium Interface of Tick Immune Signaling, Microbiota, and Persistence of Bacterial Pathogens P. 316	112 Symposium Proteomics for Identifying Diagnostic Markers of CNS Infection P. 316	113 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis I P. 317	114 Symposium Slaying the Dragon: Reframe and Investigate Transmission Dynamics for Guinea Worm Eradication P. 318	115 ASTMH Annual Business Meeting P. 319
1:30 – 2 p.m.						
2 – 2:30 p.m.						
2:30 – 3 p.m.						
3 – 3:30 p.m.	121 Scientific Session Dengue Transmission and Virus-Host Interactions P. 323	122 Symposium Strides Toward a National Strategy to Address Vector-Borne Disease Threats in U.S. P. 324	123 Symposium The State of Zika Diagnostics in 2022: Innovative Strategies and Qualified Resources Advanced Since 2019 P. 324	124 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis II P. 325	125 Symposium Building a Global Emerging Infectious Disease Research Network during a Pandemic P. 326	126 Symposium New Standard for Managing LF Lymphedema: Lessons from LEDoxy and TAKeOFF Studies P. 327
3:30 – 4 p.m.						
4 – 4:30 p.m.						
4:30 – 4:45 p.m.						
4:45 – 5 p.m.						
5 – 5:30 p.m.						
5:30 – 6 p.m.			Sponsored Symposium Challenges in Malaria Diagnostics and the Need for Next Generation Tests P. 58 and 328			
6 – 6:30 p.m.						
6:30 – 7 p.m.						
7 – 7:30 p.m.						
7:30 – 8 p.m.						

Miss a Session?

In-Person attendees have access to the On-Demand content content until October 1, 2023.

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

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Thursday, November 3, 2022

	Room 6AB	Room 6C	Room 6E	Room 602/603/604	Room 605/610	Room 606/607	Room 608/609
8 – 8:30 a.m.	128 Scientific Session Malaria Prevention Several Strategies P. 329	129 Scientific Session SARS-CoV-2 and Other Viruses P. 330	130 Scientific Session Clinical Tropical Medicine: Maternal and Child Health P. 331	131 Symposium The Invisible Burden: Measuring and Evaluating the Impact of Infectious Diseases on Cognition P. 332	132 Scientific Session Kinetoplastida and Other Protozoa: Epidemiology P. 332	133 Scientific Session Global Health Security and (Re)-Emerging Infectious Diseases P. 333	134 Scientific Session Malaria: Vector Control: Threats to Current Tools and Evidence of New Tools P. 334
8:30 – 9 a.m.							
9 – 9:30 a.m.							
9:30 – 10 a.m.							
10 – 10:30 a.m.	139 Plenary Session V: A Tribute to Paul E. Farmer MD, PhD (In-Person-Only) P. 338						
10:30 – 10:45 a.m.							
10:45 – 11 a.m.							
11 – 11:30 a.m.	140 Symposium Combining Malaria Interventions: Trials to Modeling to Optimize Impact of Outcome P. 338	141 Scientific Session Clinical Tropical Medicine: Tropical Infections and HIV P. 339	142 Symposium Holistic Approach to Triple Artemisinin-Based Rx (TACTs) for Africa P. 340	143 Scientific Session ACMCIP: Kinetoplastid Cellular and Immunoparasitology P. 341	144 Scientific Session Kinetoplastida and Other Protozoa: Diagnosis and Treatment P. 342	145 Symposium Accelerating NTD 2030 Target Achievement through Paradigm Shifts in Country Ownership P. 343	
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.							

Miss a Session?

In-Person attendees have access to the On-Demand content content until October 1, 2023.

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

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Use the Meeting App to search the Annual Meeting program

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- Search by speaker, abstract or topic
- 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.

Thursday, November 3, 2022

	Room 6 11/612	Room 613/614	Room 615/616/617	Room 618/619/620	Atrium Lobby
8 – 8:30 a.m.	135 Symposium Calcified Neurocysticercosis: Closing the Knowledge Gap P. 335	136 Symposium Defining and Acting on Pneumonia Research Priorities P. 336	137 Symposium Strengthening Lab Capacity and Optim. Utilization of Approaches to Accelerate Oncho. Elimination in AFRO P. 336	138 Symposium Innovations in Data-Driven Approaches to Improving Sepsis Care for Children in Low-Resource Settings P. 337	
8:30 – 9 a.m.					
9 – 9:30 a.m.					
9:30 – 10 a.m.					Coffee Break
10 – 10:30 a.m.					
10:30 – 10:45 a.m.					
10:45 – 11 a.m.					
11 – 11:30 a.m.	146 Symposium Post-Discharge Malaria Chemoprevention in Children with Severe Anemia P. 344		147 Symposium Inform Interv. Strat to Stop Transmission of STH and Schisto: Ev. from Ethiopia, Kenya, Rwanda and Zimbabwe P. 344	148 Symposium Using Conflict Resolution Approaches to Enable Health Services and Vice-Versa P. 345	
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.					

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.

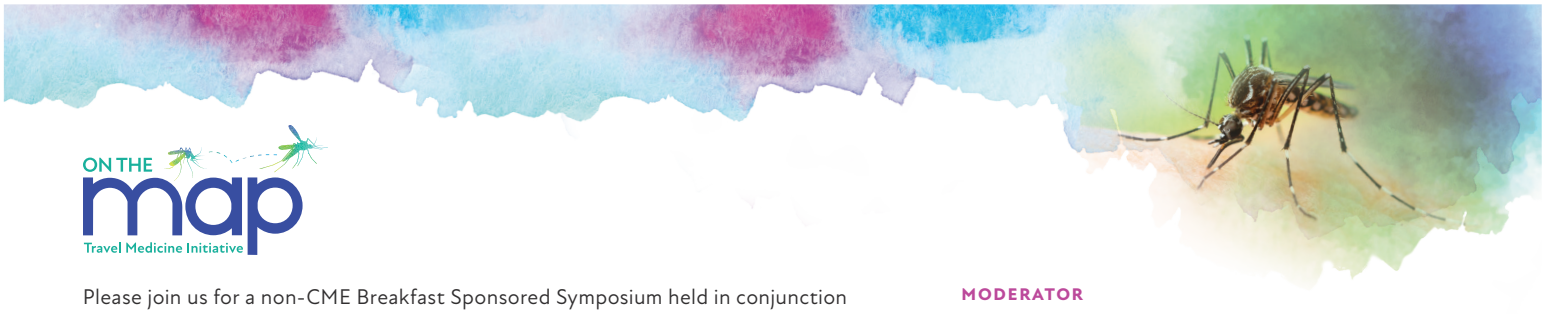
Visit **astmh.org** to learn more about ASTMH membership.

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.

It is expected that Affiliates around the globe will develop a sense of community around shared goals of global health equity.

BENEFITS OF AFFILIATE MEMBERSHIP

- Membership for the designated university faculty member, program director or NGO representative
- Membership for up to 15 pre- or post-doctoral students
- Read more here for benefits and access to the membership application



ON THE map
Travel Medicine Initiative

Please join us for a non-CME Breakfast Sponsored Symposium held in conjunction with the American Society of Tropical Medicine and Hygiene 2022 Annual Meeting

ARBOVIRAL DISEASES:

An Emerging and Re-emerging Public Health Threat

Tuesday, November 1, 2022 • 7:00 AM – 8:45 AM

Seattle Convention Center, Room 615-617, Seattle, Washington

PROGRAM DESCRIPTION

This program provides an overview from experts in infectious diseases and travel medicine on arboviral diseases, especially those transmitted by Aedes mosquitoes in urban areas. The emergence or re-emergence of arboviral disease epidemics—including Zika in Latin America; yellow fever in Angola, Brazil, and China; West Nile in the Americas; dengue in the tropics and subtropics; and chikungunya, starting in East Africa and then spreading globally—have highlighted the urgent and continuing need for integrated and improved measures for control and prevention.

MODERATOR

Karen Krueger, MD
Assistant Professor of Medicine
Clinical Director, Travel and Immunization Clinic
Division of Infectious Diseases,
Northwestern University
Feinberg School of Medicine, Chicago, Illinois

PANELISTS

Jorge E. Osorio, DVM, PhD
Professor, Department of
Pathobiological Sciences
School of Veterinary Medicine
University of Wisconsin-Madison,
Madison, Wisconsin

Fernando J. Ysern Borrás, MD, FAAP
President of Grupo Pediátrico de Caguas CSP,
Caguas, Puerto Rico
Assistant Professor, Pediatric Department,
Ponce Health Sciences University School of
Medicine, Ponce, Puerto Rico

The Sponsored Symposium is being held in conjunction with the ASTMH 2022 Annual Meeting. Valneva is the sponsor of this Breakfast Sponsored Symposium.
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valneva

EVERY CHILD DESERVES A FUTURE

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Around the world, we give children a healthy start in life, the opportunity to learn and protection from harm, We continue to be at the forefront of global efforts to end preventable child death **reaching 26.5 million children** through our Global Health Programs last year.

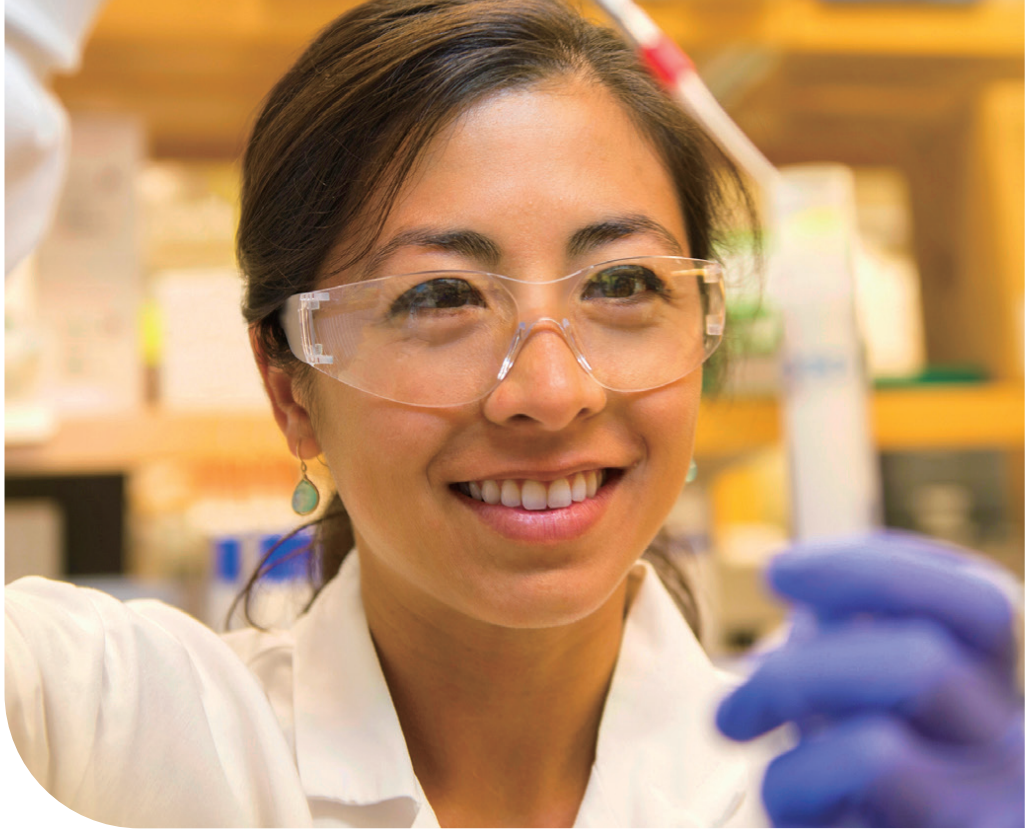
With programs in more than 100 countries and an annual budget of more than $950 million from the private sector, foundations, and major bilateral and multilateral institutions, Save the Children has a deep operating platform. Our network of over 25,000 professionals offers expertise:

- HIV and AIDS
- Malaria
- Neglected Tropical Disease
- Tuberculosis
- Adolescent and youth health
- Family Planning
- Nutrition
- Reproductive, maternal, newborn and child health
- Water, sanitation and hygiene
- Community capacity strengthening
- Social and behaviour change
- Monitoring and evaluation

We do whatever it takes for children –**every day and in times of crisis** –transforming their lives and the future we share.

www.savethechildren.org

Jordi Matas/Save the Children



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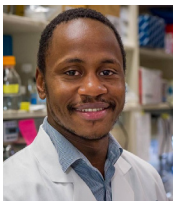
www.takeda.com

Takeda

Fellowships, Travel Awards, and Grants (cont.)

Blessing Ankrah, *Catholic University College of Ghana, Ghana*



Umaru Barrie, *University of Texas Southwestern Medical Center, United States*

Aissata Barry, *CNRFP, Burkina Faso*

Hellen Barsosio, *Kenya Medical Research Institute, Kenya*

Ketema Begna, *Haramaya University and London School of Hygiene & Tropical Medicine, Ethiopia*

Insaf Ben Hadj Ali, *Institut Pasteur de Tunis, Tunisia*

Caitlin Bourke, *Walter and Eliza Hall Institute of Medical Research, Australia*

Mariana Cunha, *University of Sao Paulo, Brazil*

John Paul Caesar Delos Trinos, *UNSW Sydney, Australia*

Moussa Djimde, *Malaria Research and Training Center, Mali*

Linda Djune Yemeli, *Center for Research on Filiriasis and Other Tropical Diseases, Cameroon*

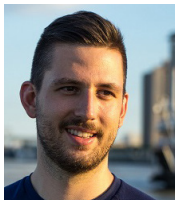
Shyam Dumre, *Tribhuvan University, Nepal*

Andrew Edielu, *MRC/UVRI & LSHTM Uganda Research Unit, Uganda*

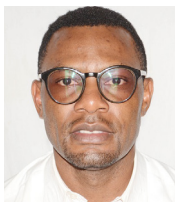
Sheila Ekodir, *Kenya Medical Research Institute, Kenya*

Victoria Githu, *Ifakara Health Institute, Tanzania*

Brendon Goh, *University of Queensland, Australia*



Aurel Holzschuh, *University of Notre Dame, United States*



Cyrille Kamdem, *University of Dschang, Cameroon*

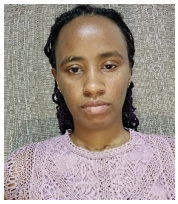
Fousseyni Kane, *ICERMali-USTTB, Mali*

Bernard N. Kanoi, *Ehime University, Japan*

Fellowships, Travel Awards, and Grants (cont.)

Salimata Kante, *ICERMali-USTTB, Mali*

Kennedy Zembere, *Malawi Liverpool Wellcome Trust, Malawi*



Caroline Kiuru, Barcelona *Institute for Global Health, Mozambique*

Maxwell Machani, *Jaramogi Oginga Odinga University of Science and Technology, Kenya*

Rex Mbewe, Malawi *University of Business and Applied Sciences, Malawi*

Adebayo Molehin, *Midwestern University, United States*

Myo Naung, *Walter Eliza Hall of Medical Institute, Australia*

Yaye Dié Ndiaye, *University Cheikh Anta Diop, Senegal*

James Ngocho, *Kilimanjaro Christian Medical University College, United Republic of Tanzania*

Nam Nguyen, *Oxford University Clinical Research Unit, Vietnam*

Wongani Nyangulu, *Kamuzu University of Health Sciences, Malawi*

Winter Okoth, *Institute for Glycomics, Griffith University, Australia*

Stephen Orena, *Infectious Diseases Research Collaboration, Uganda*

Bethanie Pelloquin, *London School of Hygiene & Tropical Medicine and Nagasaki University, United Kingdom*

Leyre Pernaute-Lau, *Karolinska Institute, Sweden*

Sadia Rahman, *icddr,b, Bangladesh*

S. M. Mazidur Rahman, *icddr,b, Bangladesh*

Carola Salas, *U.S. Naval Medical Research Unit No. 6 (NAMRU-6), Peru*

Gangi Samarawickrama, *QIMR Berghofer Medical Research Institute, Australia*

Rehnuma Sarah, *International Cholera and Diarrheal Disease Research, Bangladesh*

Fellowships, Travel Awards, and Grants (cont.)

Himal Shrestha, *La Trobe University, Australia*

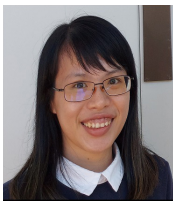
Patrick Tumwebaze, *Infectious Disease Research Collaboration, Uganda*

Patricia Silva, *University of Washington, United States*

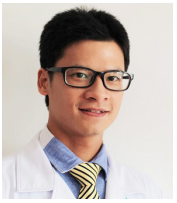
Koffi Bertin Vianou, *Institut de Recherche Clinique du Bénin, Benin*

Alick Sixpence, *Malaria Alert Center, Kamuzu University of Health Science, Malawi*

Rebecca Vinit, *Papua New Guinea Institute of Medical Research, Papua New Guinea*



Angelica Tan, *Menzies School of Health Research, Charles Darwin University, Australia*



Nguyen Vuong, *Oxford University Clinical Research Unit, Vietnam*

Brian Tarimo, *Ifakara Health Institute, Tanzania*

Jacqueline Waeni, *KEMRI Wellcome Trust, Kenya*

Surafel Tebeje, *AHRI, Ethiopia*

Baleng Wutor, *Medical Research Council Unit The Gambia at London School of Hygiene & Tropical Medicine, Gambia*

Leticia Tiburcio Ferreira, *University of Campinas, Brazil*

Fellowships, Travel Awards, and Grants (cont.)

Young Investigator Awards

SUPPORTED WITH FUNDING FROM

Anonymous Donor
William A. Petri, Jr. in memory of William A. Petri, Sr.
All individuals who made a donation during registration

Chair: Ann Moormann, *University of Massachusetts Medical School*

Young Investigator Awards are given to young scientists who have completed the majority of work described in their accepted abstracts as undergraduates, graduate students or during the first two years of postdoctoral research. The early-career investigators hold a primary role in the reported experimental work, as evidenced by first-author status on their abstracts. 2022 recipients will be determined at the competitive judging event held on Sunday, October 30, during the Annual Meeting. Winners will be announced during the Awards Program at the opening session.

Congratulations to the 2021 Winners

(Selected during ASTMH 70th Annual Meeting, November 2021)

Donald Severin Kamdem, *University of Utah, United States*

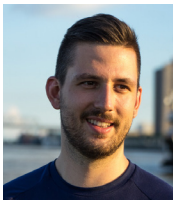
Melissa Rosenthal, *University of Nebraska Medical Center, United States*

Joelle Rosser, *Stanford University, United States*

Li Jun Thean, *Murdoch Children's Research Institute, Australia*

Megan Vogt, *Virginia Polytechnic Institute and State University, United States*

2021 First-Tier Mention



Aurel Holzschuh, *University of Notre Dame, United States*

Geofrey Makenga, *National Institute for Medical Research, Tanzania*

Hammed Mogaji, *Federal University of Agriculture, Nigeria*

Hannah Rafferty, *London School of Hygiene & Tropical Medicine, United Kingdom*

Adam Wegman, *SUNY Upstate Medical University, United States*

2021 Honorable Mention

Jacilara Conceicao, *University of Iowa, United States*

Keli Gerken, *Stanford University School of Medicine, United States*

Isaac Namango, *Swiss Tropical and Public Health Institute, Switzerland*

Program Information

All schedules are U.S. Pacific Time Zone

Poster Sessions

Convention Center – Hall 4A (Fourth Floor)

Three poster sessions will be held in Hall 4A on the fourth floor. 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 at the Seattle Convention Center, 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, 2023.

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 Pacific Time Zone

Poster Session A

Monday, October 31

Setup | 9:45 a.m. – 10:15 a.m.

Viewing | 10:15 a.m. – 4 p.m.

Presentations | 11 a.m. – 12:45 p.m.

Dismantle | 4 p.m. – 6:15 p.m.

Poster Session B

Tuesday, November 1

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

Wednesday, November 2

Setup | 9:45 a.m. – 10:15 a.m.

Viewing | 10:15 a.m. – 4 p.m.

Presentations | 11 a.m. – 12:45 p.m.

Dismantle | 4 p.m. – 6:15 p.m.

Program Information

All schedules are U.S. Pacific Time Zone

POSTER SESSION A

ENTRANCE

Virology

Entomology

Global Health

Malaria

Bacteriology - Enteric Infections

Bacteriology - Other Bacterial Infections

Clinical Tropical Medicine

HIV and Tropical Co-Infections

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Diagnosis and Treatment (Including Leishmania and Trypanosomes)

One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

Pneumonia, Respiratory Infections and Tuberculosis

Schistosomiasis and Other Trematodes – Diagnostics and Treatment

Schistosomiasis and Other Trematodes – Epidemology and Control

Water, Sanitation, Hygiene and Environmental Health

Late-Breakers

POSTER SESSION B

ENTRANCE

Virology

Entomology

Global Health

Malaria

Bacteriology - Enteric Infections

Cestodes - Echinococcosis/ Hydatid disease

Cestodes - Taeniasis and Cysticercosis

Clinical Tropical Medicine

Helminths - Nematodes - Filariasis (Epidemiology)

Helminths - Nematodes - Intestinal Nematodes

Integrated Control Measures for Neglected Tropical Diseases (NTDs)

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Cellular and Molecular Biology (Including Leishmania and Trypanosomes)

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Epidemiology (Including Leishmania and Trypanosomes)

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Immunology (Including Leishmania and Trypanosomes)

One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

Pneumonia, Respiratory Infections and Tuberculosis

Water, Sanitation, Hygiene and Environmental Health

Late-Breakers

Program Information

All schedules are U.S. Pacific Time Zone

POSTER SESSION C

ENTRANCE

Virology

Entomology

Global Health

Malaria

Bacteriology - Enteric Infections

Bacteriology - Systemic Infections

Bacteriology – Trachoma

Clinical Tropical Medicine

Helminths - Nematodes - Filariasis (Cellular and Molecular Biology)

Helminths - Nematodes - Filariasis (Clinical)

Helminths - Nematodes - Filariasis (Immunology)

Helminths - Nematodes - Filariasis (Other)

Pneumonia, Respiratory Infections and Tuberculosis

Schistosomiasis and Other Trematodes – Epidemiology and Control

Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology

Late-Breakers

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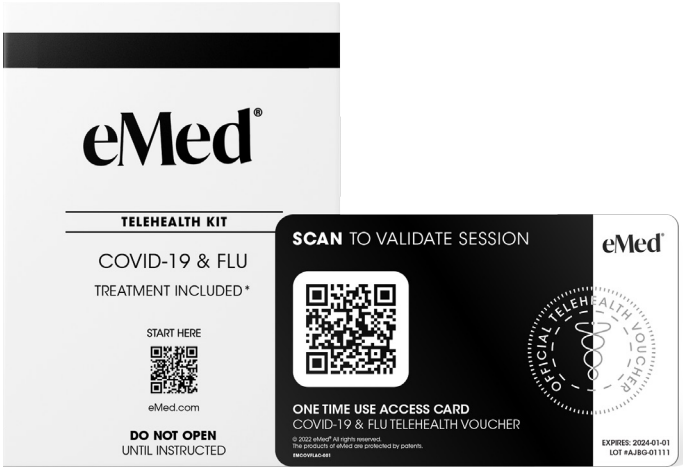

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Program Information

All schedules are U.S. Pacific Time Zone

Meet us in the TropMed Hub

Exhibit Hall (Convention Center - Fourth Floor)

Visit the TropMed Hub and visit with representatives from:

- American Society of Tropical Medicine and Health (ASTMH)
- *American Journal of Tropical Medicine and Hygiene* (*AJTMH*)

ASTMH subgroups" and list the subgroups under them

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

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

Symposium 55

5th Annual Innovations Pitch Competition

LIVE STREAMING

Convention Center - Room 602/603/604 (Sixth Floor)

Tuesday, November 1, 10:15 a.m. - Noon

The Innovations Pitch Competition is a TED Talk-style, rapid-pitch session held in front of a live audience. It is a lively, fun and interactive session showcasing some of the most inspiring ideas that focus on bright ideas to reduce risk, improve prediction and deliver better healthcare tools for outbreak-prone diseases in low-resource settings. This year's competition will highlight tools and methods that focus on global health and equity.

Sponsored Symposia

Child Immunization: Struggles and Strategies during COVID-19

Convention Center - Room 602-604 (6th Floor)
Monday, October 31, 7:15 p.m. – 9 p.m.

Sponsored by Save the Children

This Sponsored Symposium will focus on challenges and mitigation measures adapted to improve routine child immunization coverage in the global COVID-19 pandemic context. COVID-19, the world's most widespread pandemic in a century, has put health systems in all countries under unprecedented strain. Countries have been able to respond to COVID-19 thanks to previous investments in their health systems. However, strict lockdowns and shifting government priorities to combat the pandemic disrupted health services and routine immunization services, highlighting and exacerbating inequities both within and between countries. The effects of the pandemic have varied between lower-income countries, as many of them found it challenging to accelerate the roll-out of COVID-19 vaccines while maintaining and extending the reach of routine immunization systems. For child healthcare, the global coverage rate for diphtheria, tetanus, and pertussis (DTP3) doses - a benchmark for measuring global coverage of routine immunization - dropped from 86% in 2019 to 83% in 2020 , leaving 3.7 million more children un-or under vaccinated than in 2019. Disruption of health services including routine immunization caused by the COVID-19 pandemic has increased the number of zero-dose children, and continued disruption in 2021 shows the need to safeguard routine immunization amid COVID-19 vaccine rollout. In the proposed symposium sessions, we aim to share the results and lessons learned from activities supported by International Vaccine Access Center (IVAC) at Johns Hopkins University and Save the Children's country office teams in Bangladesh and Kenya. The presentations and discussion session during the symposium will focus on the challenges faced and the strategies adapted to overcome them in order to keep the pace and coverage of routine immunization services, specifically in low and middle income countries. We believe that the symposium will offer an opportunity to cross-share lessons from the different geographic regions represented, and the information-rich content and discussion will be instrumental in offering the global health audience a comprehensive summary of effective ways to address post-COVID challenges for keeping child immunization coverage high.

CHAIR

Irene Koek, Head of Global Health
Save the Children, Washington, DC, United States

WELCOME ADDRESS

Irene Koek, Head of Global Health
Save the Children, Washington, DC, United States

MODERATOR, PRESENTATIONS AND DISCUSSION

Charles A. Knirsch, Vice President, Clinical Research and Development
Pfizer Inc., New York, NY, United States

KEYNOTE SPEECH: BUILDING BACK BETTER STRATEGIES FOR IMMUNIZATION: LESSONS FROM COVID-19

Anis Siddique, Team Lead, Immunization Coverage/Equity
UNICEF HQ, New York, NY, United States

RESULTS FROM DOOR-TO-DOOR IMMUNIZATION STRATEGY IN NAIROBI COUNTY, KENYA

Linda T. Misiko, Health Technical Advisor
Save the Children Kenya, Nairobi, Kenya

RESULTS FROM DOOR-TO-DOOR IMMUNIZATION STRATEGY IN NAIROBI COUNTY, KENYA

Asma Ali Awadh, Sub-County Medical Officer Health
Kibra/Langata Sub-County, Nairobi Metropolitan Services, Nairobi, Kenya

CHILD IMMUNIZATION CATCH-UP AFTER COVID-19 DISRUPTIONS IN BANGLADESH

Shohel Rana, Project Mgr, Tackling Childhood Pneumonia
Save the Children Bangladesh, Barishal, Bangladesh

CHILD IMMUNIZATION CATCH-UP AFTER COVID-19 DISRUPTIONS IN BANGLADESH

Md Shamsul Haque, Line Director (MNCAH)
Directorate General of Health Services, Ministry of Health and Family Welfare, Bangladesh, Dhaka, Bangladesh

A SYSTEMATIC REVIEW OF IMMUNIZATION SERVICE DISRUPTION AND RECOVERY IN THE WAKE OF THE COVID-19 PANDEMIC IN LMICS

Chizoba Wonodi, Associate Scientist
IVAC at Johns Hopkins University, Baltimore, MD, United States

CHALLENGES AND OPPORTUNITIES FOR ROUTINE IMMUNIZATION IN THE ERA OF COVID-19 VACCINE ROLLOUT IN NIGERIA

Daniel Ali, Assistant Scientist
IVAC at Johns Hopkins University, Baltimore, MD, United States

Sponsored Symposia

Biotechnology for Vector Control: Scaling for Impact

Convention Center - Room 6C (6th Floor)
Monday, October 31, 7:15 p.m. – 9 p.m.

Sponsored by Bayer Crop Science

Oxitec is the leading developer of biological solutions to control pests that transmit disease, destroy crops and harm livestock. For this session, leaders from the company will discuss recent innovations and programs that they have developed to address mosquito control and decrease the incidence of vectored diseases in at-risk populations.

CO-CHAIR
S. Eliza Dunn, MD, FACMT, Medical Affairs Lead
Bayer US Crop Science, Chesterfield, MO, United States

CO-CHAIR
Kevin Gorman, PhD, Chief Development Officer
Oxitec, Abingdon, United Kingdom

PROSPECTS IN THE FIGHT AGAINST VECTOR-BORNE DISEASES
Grey Frandsen, CEO
Oxitec, Abingdon, United Kingdom

FRIENDLY™ TECHNOLOGY FOR MALARIA PREVENTION
Kelly Matzen, PhD, Chief Technology Officer
Oxitec, Abingdon, United Kingdom

FRIENDLY™ AEDES IN THE HANDS OF THE COMMUNITY
Kevin Gorman, PhD, Chief Development Officer
Oxitec, Abingdon, United Kingdom

Malaria and NTD Integration: From Silos to Synergies

Convention Center - Room 613/614 (6th Floor)
Tuesday, November 1, 7 a.m. - 8:45 a.m.

Sponsored by Global Institute for Disease Elimination (GLIDE)

Integration across programs within the health sector or with other sectors can increase efficiency of resources and operations, sustainability, and community acceptability of programs. Although long proposed as a beneficial strategy, there has been limited integration in practice to date. In the Global Technical Strategy for Malaria 2016-2030 and new NTD Roadmap to 2030, WHO encourages an increased drive to integrate programs. Malaria and NTD programs have long existed side by side in government offices and in the field. Still, their approaches to pursuing program goals continue to evolve along different, yet intersecting pathways. Apart from vector control, malaria programs are, for the most part, integrated into primary health care. However, as they move towards elimination, they are expanding their use of more vertical, targeted approaches. At the same time, NTD programs are evolving away from targeted campaigns towards a strong emphasis on sustainability and integration. This panel discussion will highlight lessons learned from each program and will stimulate discussions on cross-disease collaboration and integration. The discussion will draw on the experiences of NTD and malaria disease program managers who have recently used an integration workshop framework (developed by GLIDE and Bridges to Development) to guide their efforts to identify win-win opportunities for collaboration. The session will end with a moderated Q&A session with the speaker panel. By the end of this session, participants will be able to identify key lessons and approaches for practical implementation of cross-program integration efforts.

WELCOME
Simon Bland, CEO
Global Institute for Disease Elimination (GLIDE), Abu Dhabi, United Arab Emirates

PANEL INTRODUCTION BY MODERATOR
Ngozi Erondu, Technical Director
Global Institute for Disease Elimination (GLIDE), Abu Dhabi, United Arab Emirates

COUNTRY-LEVEL PROGRAM INTEGRATION: WITHIN THE GLOBAL HEALTH DEVELOPMENT AGENDA AND FUNDING
Alan Brooks
Bridges to Development, Geneva, Switzerland

INCENTIVIZING ACTION: CHALLENGES IN BRINGING THE PROGRAMS TOGETHER
Dr Fatma Kabole
NTD Program Manager, Ministry of Health, Zanzibar, Tanzania, United Republic of

Sponsored Symposia

IDENTIFYING OPPORTUNITIES: INTEGRATION WORKSHOP, NEUTRAL PARTNERS PROVIDING A PLATFORM AND FACILITATING THE CONVERSATION

Dr. Keziah L. Malm
Malaria program manager, Ghana Health Service, Accra, Ghana

INTEGRATED VS VERTICAL PROGRAMS: DRAWBACKS AND BENEFITS

Gregory S. Noland
Program Director, River Blindness, Lymphatic Filariasis, Schistosomiasis and Malaria, The Carter Center, Atlanta, GA, United States

QUESTION AND ANSWER

Ngozi Erondu, Technical Director
Global Institute for Disease Elimination (GLIDE), Abu Dhabi, United Arab Emirates

Arboviral Diseases: An Emerging and Re-Emerging Public Health Threat

Convention Center - Room 615-617 (6th Floor)
Tuesday, November 1, 7 a.m. - 8:45 a.m.

Sponsored by Valneva

This program provides an overview from experts in infectious diseases and travel medicine on arboviral diseases, especially those transmitted by Aedes mosquitoes in urban areas. The emergence or re-emergence of arboviral disease epidemics—including Zika in Latin America; yellow fever in Angola, Brazil, and China; West Nile in the Americas; dengue in the tropics and subtropics; and chikungunya, starting in East Africa and then spreading globally—have highlighted the urgent and continuing need for integrated and improved measures for control and prevention.

MODERATOR

Karen Krueger, MD, Assistant Professor of Medicine
Clinical Director, Travel and Immunization Clinic, Division of Infectious Diseases, Northwestern University, Feinberg School of Medicine, Chicago, IL, United States

PANELIST

Jorge E. Osorio, DVM, PhD
Professor, Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI, United States

PANELIST

Fernando J. Ysern Borrás, MD, FAAP
President of Grupo Pediátrico de Caguas CSP, Assistant Professor, Pediatric Department, Ponce Health Sciences, University School of Medicine, Ponce, PR, United States

The Road to Malaria Elimination Using Community Health Structures with Private Sector Support in Bonny Island, Nigeria

Convention Center - Room 602-604 (6th Floor)
Wednesday, November 2, 5:15 p.m. – 7 p.m.

Sponsored by Nigeria LNG Limited (NLNG)

Community participation especially when partnership, delegated power or citizens' control is attained remains pivotal to sustainability of project goals and objectives. Global efforts towards malaria eradication were stalled and possibly regressed due to disruption of health systems by the COVID-19 pandemic. Nevertheless, community health structures continued to serve as first point of care for most diseases. Health reforms in most countries have focused on health system strengthening with attention to the formal health structures. This leaves a system-strengthening gap between the primary health care system and the informal community health structures that are consulted by majority. This session will share the journey so far of the partnership between the community health system and private sector towards a malaria-free Bonny Island despite the COVID-19 pandemic. The community health system strengthening strategy will play a key role in containment of future pandemics especially in low and middle-income countries.

CHAIR

Dr. Anastasia Isodje
Nigeria LNG Limited (NLNG), Bonny Island, Rivers State, Nigeria

CO-CHAIR

Charles Epelle
Nigeria LNG Limited (NLNG), Bonny Island, Rivers State, Nigeria

INTRODUCTION AND OBJECTIVES

Charles Epelle
Nigeria LNG Limited (NLNG), Bonny Island, Rivers State, Nigeria

BONNY MALARIA ELIMINATION PROJECT: HOW IT ALL STARTED

Dr. Okuns Ohiosimuan
Nigeria LNG Limited (NLNG), Bonny Island, Rivers State, Nigeria

RIVERS STATE, NIGERIA USE OF BEHAVIOR ECONOMICS IN HEALTH FACILITIES AND COMMUNITIES TO DRIVE OWNERSHIP

Dr. Edima Ottoho
Boston University School of Public Health, Boston, MA, United States

REACHING EVERY HOUSEHOLD THROUGH STRONG COMMUNITY HEALTH SYSTEMS AND LOCAL STRUCTURES

Dr. Anastasia Isodje
Nigeria LNG Limited (NLNG), Bonny Island, Rivers State, Nigeria

Sponsored Symposia

Challenges in Malaria Diagnostics and the Need for Next Generation Tests

Convention Center - Room 611/612 (6th Floor)
Wednesday, November 2, 5:15 p.m. – 7 p.m.

Sponsored by Abbott

When fighting malaria, standing still means sliding back. This aphorism also applies to current malaria diagnostic solutions, which need to evolve to maintain their ability to correctly identify malaria infected individuals, with or without symptoms, in an evolving epidemiological context, in which hrp2/3 negative P. falciparum parasites are spreading and where P. vivax control and elimination has become a top priority. In this symposium, malaria diagnostic stakeholders will discuss what challenges currently exist on the ground, what innovation is needed to be addressed and how to ensure that up and coming innovations can ultimately be made accessible to the end-users who need them.

INTRODUCTION

Dr. Luis Gonzalez, Moderator
Abbott, Chicago, IL, United States

INTRODUCTION

Dr. Xavier Ding, Moderator
Abbott, Baar, Switzerland

MALARIA DIAGNOSIS: OLD AND EMERGING NEEDS AND OPPORTUNITIES TO ADDRESS THEM

Dr. Gonzalo Domingo
PATH, Seattle, WA, United States

MALARIA DIAGNOSTICS IN ETHIOPIA AND CURRENT CHALLENGES RELATED TO HRP2 DELETION

Prof Lemu Golassa
Aklilu Lemma Institute of Pathobiology, Addis Ababa University,, Addis Ababa, Ethiopia

SHIFTS, SHORTCOMINGS, AND OPPORTUNITIES IN THE MALARIA DIAGNOSTICS MARKET

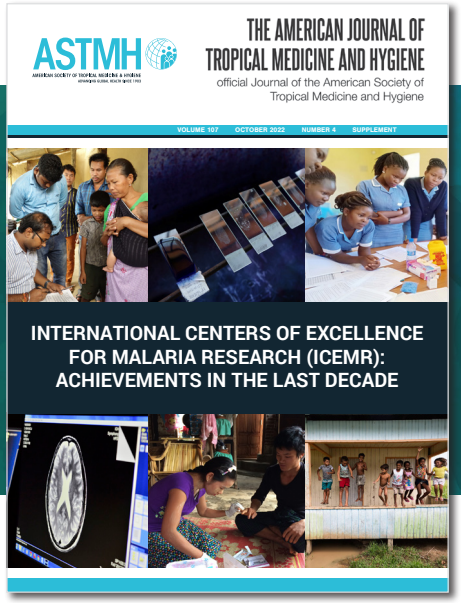
Kelsey Barrett
UNITAID, Geneva, Switzerland

WHAT WILL IT TAKE TO SCALE UP & SUSTAIN MALARIA INNOVATION

Ingrid Etoke
Bill & Melinda Gates Foundation, London, United Kingdom

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 supplementary 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 page charges for publishing in the *Journal* so if you are not already a member, consider joining today.

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

#TropMed22
#IamTropMed #ASTMHinclusion

Onsite: What, When, Where

Social Media at the 2022 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 **#TropMed22** and **#IamTropMed** hashtags.

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.

ASTMH Twitter Board

If you're tweeting during the meeting, be sure to add the hashtag **#TropMed22** to your tweets so that your message gets through to other attendees or those following the meeting exclusively on Twitter. Using the hashtag is a great way to connect with your fellow tweeps, pick up new followers or, for exhibitors, drive traffic to your booth.

#TropMed22 #IamTropMed @ASTMH

Onsite: What, When, Where

Registration

Exhibit Hall Lobby (Convention Center - Fourth Floor)

Annual Meeting Registration Hours

Sunday, October 30	6:30 a.m. – 7:30 p.m.
Monday, October 31	7 a.m. – 5 p.m.
Tuesday, November 1	7 a.m. – 5 p.m.
Wednesday, November 2	7 a.m. – 5 p.m.
Thursday, November 3	7 a.m. – 10:30 a.m.

The following food functions are included in the registration fee:

- Opening reception (Sunday)
- Student reception (Sunday)
- Poster session lunches (Monday, Tuesday, Wednesday)
- 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.

Convention Center

Annual Meeting sessions and events will be held at the Seattle Convention Center.

Seattle Convention Center
(formerly Washington State Convention Center)
705 Pike Street
Seattle, Washington 98101, United States
Phone: +1-206-694-5000

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

Room 309 (Convention Center - Third Floor)

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:

Sunday, October 30	2 p.m. – 5 p.m.
Monday, October 31	7:45 a.m. – 5:30 p.m.
Tuesday, November 1	7:45 a.m. – 5:30 p.m.
Wednesday, November 2	7:45 a.m. – 5:30 p.m.

Impromptu Meeting Rooms for Attendees

Convention Center - Room 213 and Room 214 (Second Floor)

Room 213 and Room 214 on the second floor of the Seattle Convention Center 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.

Onsite: What, When, Where

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, 2023

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: Sydney Jones: +1-561-809-5522 **sjones@burness.com**

Information for Speakers: Speaker Ready Room

Room 310 (Convention Center - Third Floor)

Hours

Sunday, October 30	**7 a.m. – 7 p.m.**
Monday, October 31	**7 a.m. – 7 p.m.**
Tuesday, November 1	**7 a.m. – 7 p.m.**
Wednesday, November 2	**7 a.m. – 5 p.m.**
Thursday, November 3	**7 a.m. – 11:30 a.m.**

Slide Presentation Format Guidelines

- Save your presentation as a Microsoft PowerPoint file in a format that is compatible with the most current version of PowerPoint.
- Save your file in a PPTX format for both Macintosh and PC.
- Test your presentation on a Windows machine running Windows 10 to ensure your presentation runs properly.
- In rare instances, flash drives or portable hard disks may fail or become corrupt. It is advised to make a backup copy of your presentation and media files on some type of online cloud storage such as one of the following: Google Drive, DropBox, Microsoft One Drive, Box.com, etc. It is always better to have multiple backups of your files. If you do not have access to online cloud storage and your presentation is small enough in file size, you can email your presentation media files to yourself as a backup.

All meeting rooms will be equipped with one Windows 10 computer and the most current version of PowerPoint, screen, LCD projector display device, microphone and laser pointer. You will not be permitted to connect your own computer to the LCD projector. Your presentation will be run from the AV technician's PC-based computer. Therefore, you should visit the Speaker Ready Room in advance of your session, with your presentation saved to a storage device (USB flash drive). Please inform your meeting room technician as to any special needs e.g. video playback or audio playback in your presentation.

Embedded Video and Audio

If your presentation includes embedded video or audio, it is imperative that you visit the Speaker Ready Room in advance of your presentation to ensure compatibility with meeting equipment. Embedded videos should be saved in mp4 or .wmv format. Quicktime .mov, will not be compatible. Embedded audio should be saved in mp3 or .wav format.

Important: Slide presentation format is widescreen HD (16:9 aspect ratio).

Audiovisual staff will be available in the Speaker Ready Room to answer questions about the slide presentation format or to assist in converting presentations to the widescreen HD format. Please note that slide presentations using the 4:3 aspect ratio will display correctly, but black frames will appear on the sides of the screen when presented. Load your presentation in the Speaker Ready Room 24 hours prior to your session. If you are unable to do so, visit the Speaker Ready Room as early as possible on the morning of your presentation. Speakers can begin accessing the Speaker Ready Rooms on Sunday, October 30 at 9 a.m..

Audiovisual Guidelines

Important Things to Remember

- The slide presentation format is widescreen HD (16:9 aspect ratio)
- Slide presentations using the 4:3 aspect ratio will display correctly, but black frames will appear on the sides of the screen when presented
- Save your presentation as a Microsoft PowerPoint file in a format that is compatible with the most current version of PowerPoint
- Save your file in a PPTX format for both Macintosh and PC
- All meeting rooms will be equipped with one Windows 10 computer and the most current version of PowerPoint

Continuing Education at TropMed22

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 24.75 *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 $150 US.
- Claim CME credit for one session during a period of concurrent sessions.
- Virtual attendees can claim CME credit
- CME certificates will be sent by e-mail in January.
- Complete the CME Survey and CME Claim Form by Wednesday, November 9 **here**.

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

Submit CME Survey and CME Claim Form by Wednesday, November 9 in order to receive ABIM MOC credit.

If you wish to receive ABIM MOC credit, you must register for CME credit for $150. 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 24.75 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 $150 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, November 9 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 Sunday, October 30, registrants for veterinarian continuing education will be sent an evaluation form by e-mail. This form will indicate the sessions that qualify for veterinary CE credits. The fee to claim veterinarian continuing education credit is $150, 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 2023. More information will be posted to the website in the spring of 2023. 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.

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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 on a monthly basis. 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 half-a-million readers from all over the world
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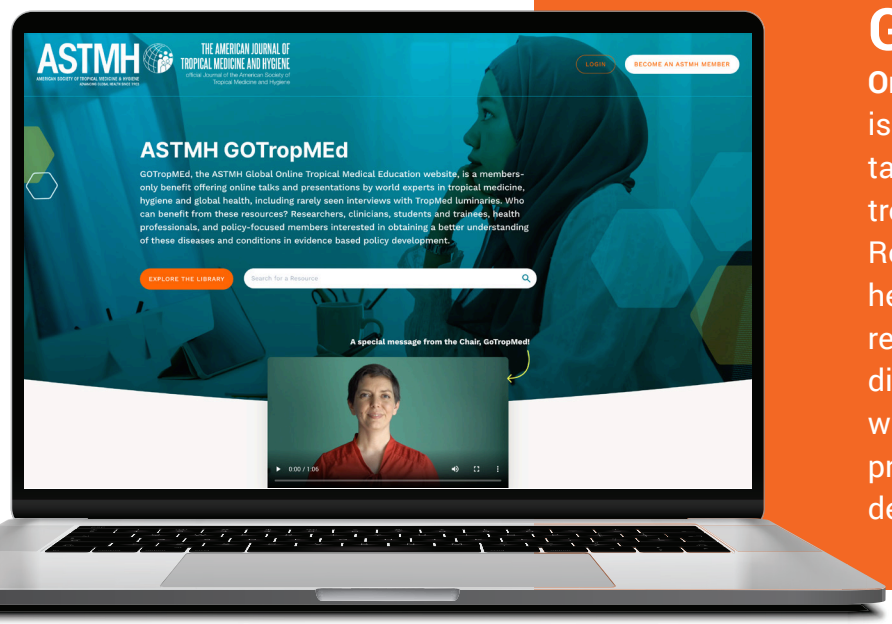
- Discounted publication costs for ASTMH members
- No charge to publish supplementary data online
- Support for publishing research from low- and middle-income countries
- Open Access publishing options
- A panel of Section Editors with expertise in all aspects of tropical medicine
- Average time to 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 page charges for publishing 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 2023
April 25, 2023

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 nearly 200 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, Booth 138 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.

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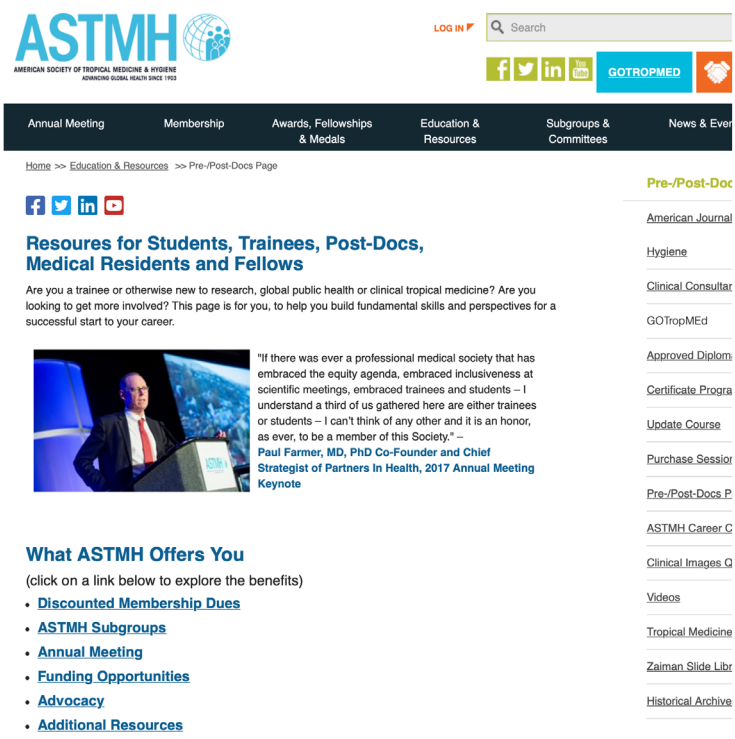
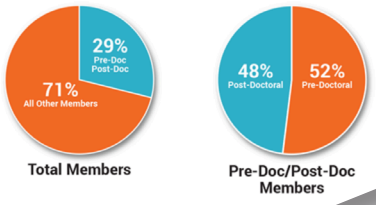
Check Out Our Online Page for Students, Trainees, Post-Docs, Medical Residents and Fellows

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

Sunday, October 30

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

Convention Center - Room 201 (2nd Floor)
Sunday, October 30, 11 a.m.- Noon

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

Convention Center - Room 201 (2nd Floor)
Sunday, October 30, Noon - 2 p.m.

Young Investigator Award Committee Meeting

Convention Center - Room 602/603/604 (6th Floor)
Sunday, October 30, 2 p.m. - 4 p.m.

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

Convention Center - Room 201 (2nd Floor)
Sunday, October 30, 2 p.m. - 3:30 p.m.

ACCTMTH Clinical Research Award Committee Meeting

Convention Center - Room 615/616/617 (6th Floor)
Sunday, October 30, 3 p.m. - 4 p.m.

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

Convention Center - Room 212 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m.

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

Convention Center - Room 213 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Convention Center - Room 203 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m.

ASTMH Committee on Global Health (ACGH) Council Meeting

Convention Center - Room 214 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m.

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

Convention Center - Room 201 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m.

Monday, October 31

Diploma Course Directors Meeting

Convention Center - Room 202 (2nd Floor)
Monday, October 31, 7 a.m.- 8 a.m.

Trainee Membership Committee

Convention Center - Room 209 (2nd Floor)
Monday, October 31, 7 a.m.- 8 a.m.

International Membership Committee Meeting

Convention Center - Room 203 (2nd Floor)
Monday, October 31, 7 a.m.- 8 a.m.

AJTMH Editorial Board Meeting

Convention Center - Room 204 (2nd Floor)
Monday, October 31, 7 a.m.- 8 a.m.

Digital Education Committee Meeting

Convention Center - Room 204 (2nd Floor)
Monday, October 31, 11 a.m.- 12:30 p.m.

Membership Committee Meeting

Convention Center - Room 212 (2nd Floor)
Monday, October 31, 11:15 a.m. - 12:30 p.m.

Ben Kean Fellowship Committee Meeting

Convention Center - Room 209 (2nd Floor)
Monday, October 31, 11:15 a.m. - 12:30 p.m.

ASTMH Board, Subgroup and Committee Meetings

Tuesday, November 1

Shope Fellowship Committee Meeting

Convention Center - Room 202 (2nd Floor)
Tuesday, November 1, 7 a.m.- 8 a.m.

CTropMed Exam Committee Meeting

Convention Center - Room 202 (2nd Floor)
Tuesday, November 1, 12:15 p.m. - 1:30 p.m.

Wednesday, November 2

ASTMH Presidents Meeting

Sheraton - Jefferson AB (Union Street Tower - 4th Floor)
Wednesday, November 2, 7 a.m.- 8 a.m.

Diploma Course Certification Committee Meeting

Convention Center - Room 209 (2nd Floor)
Wednesday, November 2, 7 a.m.- 8 a.m.

Scientific Program Committee Meeting

Convention Center - Room 2AB (2nd Floor)
Wednesday, November 2, 7:15 a.m. - 8:15 a.m.

Clinical Group Past Presidents Meeting

Convention Center - Room 209 (2nd Floor)
Wednesday, November 2, 11:15 a.m. - 12:30 p.m.

Thursday, November 3

ASTMH Board of Directors Meeting

Sheraton - Cirrus Ballroom (Pike Street Tower - 35th Floor)
Thursday, November 3, 7 a.m. - 8 a.m.

VISIT THE EXHIBIT HALL

4th Floor, across from the Registration Desk

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 Monday, October 31
- Morning and afternoon hours include coffee breaks
- Mid-day hours include lunch locations

DON'T MISS THE TROPMED HUB — EXHIBIT BOOTH #138. 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 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)

Thank you to all the 2022 Exhibitors.
See you in the Exhibit Hall!

Exhibitor List

BOOTH NUMBER	INSTITUTION
Island 131	Abbott
225	ACON Labs, Inc.
113	altona Diagnostics USA, Inc.
205	Bayer Crop Science
308	BEI Resources
400	BioFire Defense
318	Biomedical Advanced Research and Development Authority (BARDA)
111	Biomedical Research Institute
112	Care Med Choice, LLC
203	Carramore International, Ltd.
104	Centre for Tropical Medicine and Global Health
Island 115	Chan Zuckerberg Initiative, LLC
321	ClinEpiDB - University of Pennsylvania
213	CTK Biotech
331	DF/Net Research, Inc.
224	Doctors Without Borders/Medecins Sans Frontieres (MSF)
223	Drugs & Diagnostics for Tropical Diseases
219	Drugs for Neglected Diseases *initiative* (DND*i*)
102	Elsevier
300	FHI Clinical
110	Genetic Signatures
420	Georgetown University
327	Global Institute for Disease Elimination (GLIDE)
421	GSK
404	Henry M. Jackson Foundation for the Advancement of Military Medicine
422	HUMAN Gesellschaft Fuer Biochemica Und Diagnostica MbH
226	In Vitro Diagnostic Solutions
114	InBios International, Inc.
227	Integrated DNA Technologies
405	International Society of Travel Medicine ISTM
322	London Centre for Neglected Tropical Disease Research
206	London School of Hygiene & Tropical Medicine
106	Longhorn Vaccines and Diagnostics, LLC
207	Malaria Partners International
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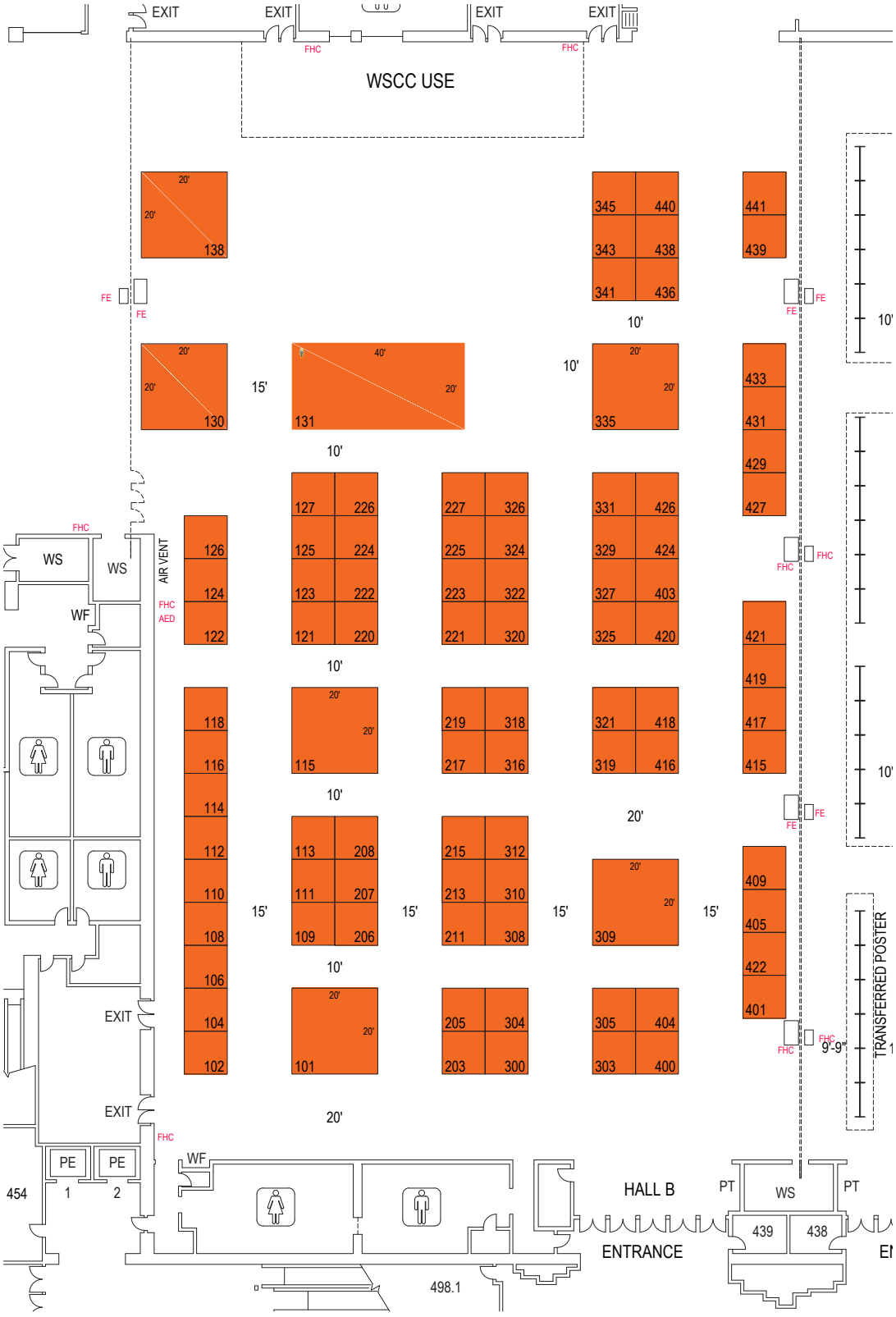

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Abbott

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Island 131

https://www.globalpointofcare.abbott/en/index.html

Abbott is a global leader in point-of-care (POC) diagnostics with a comprehensive portfolio 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.

ACON Labs, Inc.

Booth 325

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ACON Laboratories has led the way in making high-quality diagnostic and medical devices more affordable to people around the world. ACON specializes in OEM products as well as Products for Diabetes Care and Clinical Chemistry including Urinalysis Reagent Strips, Urine Analyzers, Urine Controls and Blood Glucose Meter products. ACON laboratories is the legal manufacturer of FDA EUA FlowFlex COVID-19 Antigen home test. A rapid test for the detection of COVID-19 antigens in nasal specimens.

altona Diagnostics USA, Inc.

Booth 113

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altona Diagnostics is a medical diagnostic company that develops and manufactures in vitro diagnostic tests for the PCR-based detection of pathogens.

Bayer Crop Science

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Booth 205

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Throughout history, humanity has improved lives and inspired breakthroughs for our biggest challenges. Our shared sense of inventiveness gave us agriculture—one of the oldest and most important inventions—and we believe it can do even more. We're using innovation to shape what's possible for farmers, consumers, and the planet as we seek to deliver world-class innovation, set new standards in sustainability, and drive digital transformation.

BEI Resources

Booth 308

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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. BEI Resources supplies authenticated bacterial, viral, fungal and parasitic disease pathogens, including HIV, Mycobacterium, malaria parasites, select agents, arboviruses, human microbiome species and arthropod vectors. Available materials include antibodies, nucleic acids and other reagents for research and development of diagnostics, vaccines, and therapeutics. Explore the catalog and benefits we offer by registering at www.beiresources.org, and let us serve as a catalyst for your research efforts. We'll take care of the details while you focus on your research.

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Bill & Melinda Gates Foundation

SPONSOR

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info@gatesfoundation.org
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, the foundation is led by CEO Mark Suzman, under the direction of Bill and Melinda Gates and Warren Buffett.

BioFire Defense

Booth 400

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At BioFire Defense we deliver a fully integrated suite of biological agent identification products, including BioFire FilmArray and RAZOR Mk II Systems to the biodefense and first responder community. Our products and services speed up medical results, help people stay healthy, and make communities more secure. During ASTMH, we'll be showcasing our BioFire® Global Fever Panel which takes a syndromic approach to clinical testing. With just one test, bacterial, viral and protozoan targets can be identified in whole blood in under an hour with only 2 minutes of hands-on time using the BioFire FilmArray 2.0 System.

Biomedical Advanced Research and Development Authority (BARDA)

Booth 318

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The Biomedical Advanced Research and Development Authority (BARDA) provides an integrated, systematic approach to the development of the necessary vaccines, drugs, therapies, and diagnostic tools for public health medical emergencies such as chemical, biological, radiological, and nuclear (CBRN) accidents, incidents and attacks; pandemic influenza (PI), and emerging infectious diseases (EID). Together with its industry partners, BARDA promotes the advanced development of medical countermeasures to protect Americans and respond to 21st-century health security threats. Since its inception in 2006, BARDA-funded partners have generated more than 70 FDA approvals and licensures for vaccines, therapeutics, diagnostics and devices.

Biomedical Research Institute

Booth 111

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The Schistosomiasis Resource Center 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.

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Burroughs Wellcome Fund

SUPPORTER

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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.

Care Med Choice, LLC

Booth 112
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Care Med Choice, LLC. provides portable TENS (transcutaneous electrical nerve stimulation) units offering a wide variety of benefits, including alleviating back, nerve, and diabetic pain and migraines. Our units can also improve circulation, and sleep patterns and have been shown to decrease the use of pain relievers that can cause negative side effects.

Carramore International, Ltd.

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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.

Center for Compassionate Leadership

PARTNER

https://www.centerforcompassionateleadership.org/

We envision a more compassionate, peaceful world where individuals are able to express their full, innate potential for the greater good of all. The mission of the Center for Compassionate Leadership is to advance compassionate methods of leadership by integrating best practices of modern leadership, evidence-based science, and contemplative wisdom. The Center accomplishes this through thought leadership, research, curriculum and training, community, and collaboration.

Centre for Tropical Medicine and Global Health

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Oxford's Centre for Tropical Medicine and Global Health is a network of research centres based in Oxford (UK), Africa and Southeast Asia. These are among the largest-scale and most enduring research facilities run by any university overseas. The majority of our research is conducted at three Wellcome Programmes in Kenya, Vietnam and Thailand. Other units in Myanmar, Laos, Cambodia, DRC, Uganda, Nepal and Indonesia provide a wide network of study locations. We focus on national health priorities where we operate, in close alignment to our host institutions. Besides conducting research into infectious diseases, from basic research and diagnostics development to drug discovery, clinical trials and implementation, we run training programmes for research scientists. Our research has for example informed WHO's advice on first-line treatment for malaria. Our aim is to provide world-class research facilities in the countries in which we operate, coupled with a strong ethos of capacity development.

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Chan Zuckerberg Initiative, LLC

Island 115

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www.chanzuckerberg.com

The Chan Zuckerberg Initiative was founded in 2015 to help solve some of society's toughest challenges — from eradicating disease and improving education, to addressing the needs of our local communities. Through collaboration, providing resources, and building technology, our mission is to help build a more inclusive, just, and healthy future for everyone.

ClinEpiDB - University of Pennsylvania

Booth 321

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@ClinEpiDB

The Clinical Epidemiology Database Resource, ClinEpiDB (**https://ClinEpiDB.org**), is a global open-access platform for exploration of clinical and epidemiological data. We integrate high quality data within the browser in a point-and-click interface. We enable investigators to maximize the utility and reach of their data to make optimal use of information released by others. ClinEpiDB is funded by the Bill and Melinda Gates Foundation and NIAID as a project of VEuPathDB. ClinEpiDB staff is available for demonstrations of the website and discussions of accessing or integrating data at booth #321.

CTK Biotech

Booth 213

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CTK Biotech develops and manufactures innovative immunodiagnostic tools and point-of-care diagnostic test kits for the IVD community worldwide. Our IVD products allow medical professionals to quickly and accurately diagnose disease and meet patient needs. The simplicity and portability of our test kits make them ideally suited for use in a wide range of settings including remote locations and countries with large populations where complicated medical diagnostics are not readily available.

DF/Net Research, Inc.

Booth 331

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Founded in 2004, DFnet is a women-owned small business headquartered in Seattle, with offices across the US, Canada, South Africa and India. DFnet provides data management, data analytics, and eClinical solutions (DFdiscover) supporting global health research. As a data-focused Contract Research Organization (CRO), we know accurate data drives results. Over our 18-year history, we have consistently delivered quality data for over 170 studies globally, spanning all phases of clinical trials.

DFnet's people, processes, and products have made us a trusted partner for government, academic, global health and biopharmaceutical clients worldwide. DFnet's expertise in global settings and our proven DFdiscover software has a long history of clinical trial success. The features of DFdiscover provide the tools needed to efficiently collect (online and offline), manage, review, and monitor data, both onsite and remotely.

Doctors Without Borders/Medecins Sans Frontieres (MSF)

Booth 224

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Doctors Without Borders/Medecins Sans Frontieres (MSF) is a global movement providing lifesaving care. Every day, Doctors Without Borders teams deliver emergency medical aid to people in

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crisis, with humanitarian projects in more than 70 countries. MSF was founded by a group of doctors and journalists in 1971 with the core principles including independence, neutrality, and impartiality, as well as a strong commitment to medical ethics and to bearing witness as we speak out on behalf of our patients.

Drugs & Diagnostics for Tropical Diseases

Booth 223

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Drugs & Diagnostics for Tropical Diseases (DDTD) is a 501(c)(3) nonprofit focusing on developing ultra-low-cost treatments and diagnostics for diseases that predominately affect impoverished populations. DDTD aspires to provide programs that have a global reach, as well as direct benefits to local communities.

Drugs for Neglected Diseases *initiative* (DND*i*)

Booth 219

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A not-for-profit research and development organization, DND*i* works to deliver new treatments for neglected patients, those living with Chagas disease, sleeping sickness (human African trypanosomiasis), leishmaniasis, filarial infections, mycetoma, pediatric HIV, hepatitis C, and dengue. DND*i* is also coordinating the ANTICOV clinical trial to find treatments for mild-to-moderate COVID-19 cases in low- and middle-income countries. Since its inception in 2003, DND*i* has delivered twelve new treatments to date, including new drug combinations for kala-azar, two fixed-dose antimalarials, a child-friendly antiretroviral treatment for young children with HIV, and DND*i*'s first successfully developed new chemical entity, fexinidazole, approved in 2018 for the treatment of both stages of sleeping sickness.

Elsevier

Booth 102

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.

FIND

SPONSOR

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Twitter: @FINDdx

FIND, the global alliance for diagnostics, seeks to ensure equitable access to reliable diagnosis around the world. We connect countries and communities, funders, decision-makers, healthcare providers and developers to spur diagnostic innovation and make testing an integral part of sustainable, resilient health systems. We are working to save 1 million lives through accessible, quality diagnosis, and save US$1 billion in healthcare costs to patients and health systems. We are co-convener of the Access to COVID-19 Tools (ACT) Accelerator diagnostics pillar, and a WHO Collaborating Centre for Laboratory Strengthening and Diagnostic Technology Evaluation.

FHI Clinical

Booth 300

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FHI Clinical is a full-service contract research organization (CRO) with the global expertise, responsive approaches and proven solutions to manage complex clinical research in resource-limited settings around the world. Our mission is to address unmet research needs and achieve maximum social impact by supporting the development of life-saving vaccines and medicines.

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Genetic Signatures

Booth 110

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Genetic Signatures is a specialty molecular diagnostics company focused on the development and commercialization of its proprietary technology, 3base™ to provide hospitals and laboratories the ability to screen for a wide array of pathogens in a high throughput environment.

Georgetown University

Booth 420

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Georgetown University is training next-generation leaders in infectious disease. If you are an undergraduate, early career professional, or experienced researcher, come by and find out what a master's degree from Georgetown can do for you. Representatives from two graduate programs—Global Infectious Disease and Biohazardous Threat Agents & Emerging Infectious Diseases—are excited to meet you.

Global Institute for Disease Elimination (GLIDE)

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Booth 327

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www.GLIDEAE.org
Twitter: @GLIDE_AE

GLIDE is a global health Institute, rooted in Abu Dhabi, focused on accelerating the elimination of preventable infectious diseases of poverty: currently malaria, polio, lymphatic filariasis, and river blindness, by 2030 and beyond. Founded in 2019 as the result of a long-standing collaboration between His Highness Sheikh Mohamed bin Zayed, President of the UAE, and the Bill & Melinda Gates Foundation, GLIDE works to elevate awareness and engagement, advance elimination strategies, and foster and scale innovation.

GSK

ADVERTISER

Booth 421

https://www.gsk.com
Twitter: @gsk

GSK unites science, talent and technology to get ahead of disease together. Our approach to global health is science-led, prioritising areas where we can make the most impact, and address the greatest global need.

Henry M. Jackson Foundation for the Advancement of Military Medicine

Booth 404

www.hjf.org

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.

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HUMAN Gesellschaft Fuer Biochemica Und Diagnostica MbH

Booth 422

We at HUMAN assist laboratories in meeting their daily challenges and implementing long-term IVD projects to ensure patient care. Our broad product portfolio with German quality standards provides the most comprehensive solutions that fit local requirements. Our global service and supply capabilities, in cooperation with our long-standing distribution partners, enable us to support healthcare professionals in more than 160 countries. All of this and more has made us one of the leading companies in the IVD industry over the last half-century.

In Vitro Diagnostic Solutions

Booth 226

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In Vitro Diagnostic Solutions is a company that develops novel, point-of-care testing technologies for the healthcare, veterinary, and consumer markets. Currently, three different assays are in various stages of development for the diagnosis and/or management of rare metabolic disorders and novel biomarkers for underserved populations. Since its founding in 2017, IVDS has acquired over $7 million in funding through the National Institutes of Health and the National Science Foundation. IVDS has expertise in analytical method development, product development, and formulation chemistry for

InBios International, Inc.

Booth 114

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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, Anthrax, Melioidosis, Monkeypox, and Filaria. InBios also provides contract services. Our excellent team of engineers, scientists, and regulatory professionals stand ready to assist with your next assay development or contract manufacturing project.

Integrated DNA Technologies

Booth 227

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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

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Twitter: @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

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improve health standards in their community, benefitting 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 ISTM

Booth 405

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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.

Kikundi

PARTNER

Kikundi Community of Practice
University of Washington
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www.ntdcop.org

Kikundi is a Community of Practice for Neglected Tropical Disease (NTD) Program Managers in Africa. Kikundi provides a platform for Program Managers to learn from one another in-person and online, collaborating in the pursuit of reaching national and global NTD benchmarks. Kikundi provides access to up-to-date NTD professional development and training resources, group problem-solving forums, direct messaging, and other tools to advance their technical and professional goals. Through these resources, Kikundi fosters collaborative decision-making and network-building to solve common NTD implementation and management challenges.

London Centre for Neglected Tropical Disease Research

Booth 322

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LCNTDR is an innovative research collaboration, bringing together leading experts to tackle diseases which affect the lives of over 1.7 billion of the poorest people across the globe. LCNTDR undertakes cutting-edge research to build the evidence base around the design, implementation and evaluation of neglected tropical disease prevention, control, elimination and eradication programmes.

London School of Hygiene & Tropical Medicine

Booth 206

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The London School of Hygiene & Tropical Medicine is a world-leading centre for research and postgraduate education in public and global health.

Longhorn Vaccines and Diagnostics, LLC

Booth 106

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Longhorn Vaccines and Diagnostics, a One Health company, showcases the predicate FDA-cleared inactivating transport medium PrimeStore® MTM for both RNA (Influenza, SARS-CoV-2) and DNA (MTB). PrimeStore® MTM is proven to completely lyse/

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inactivate all types of viruses and challenging, high-consequence pathogens. Nucleic acid (both RNA and DNA) transport stability has been proven at ambient and high temperatures along with extended biobanking stability, including multiple freeze/thaw cycles based on over a decade of peer-reviewed publications. Note: not all "MTMs" all created equal. The UK Health Security Agency found that only PrimeStore® MTM completely inactivated SARS-CoV-2 in 2020 testing (published) and it was the quickest media to inactivate Monkeypox (published 2022). Trust the original leader in pathogen inactivation - PrimeStore® MTM. Patented, with a nucleic acid chaperone for improved extraction for multiple sample types and testing platforms, and a 30-month shelf life.

Malaria Partners International

Booth 207

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Malaria Partners International is a not-for-profit organization run by Rotarians and community leaders. We focus on advocacy within the Rotary community and on projects and large-scale programs in the regions where malaria is most prevalent. Malaria Partners International works in close alignment with national malaria control programs in endemic countries and has established chapter organizations in Zambia, Uganda and West Africa. Our efforts, in concert with our strategic partners, can reduce malaria morbidity and mortality through multi-faceted efforts at the national, provincial and community level. We work to ignite an international Rotarian campaign for the global eradication of malaria. We advocate for support of Malaria elimination through presentations at numerous Rotary clubs throughout the U.S. and Africa. In addition, we participate in international malaria advocacy events to bring visibility and funding for malaria prevention and treatment. Our vision is that malaria is eliminated worldwide.

MCD Global Health

Booth 217

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MCD Global Health is a public health nonprofit organization. We are recognized in the U.S. and internationally as a leader, innovator, and trusted partner in the design, implementation, and assessment of high-quality programs in global health. Internationally, MCD has worked in more than 40 low- and middle-income countries in the areas of malaria, WASH, health systems strengthening, and more. Our mission is to improve the health and well-being of people worldwide through enduring, high-quality, cost-effective, and universally accessible public health solutions.

Medicines Development for Global Health

Booth 220

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Twitter: @MedicinesDev

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.

MESTO Spritzenfrabrik Ernst Stockburger GmbH

Booth 319

Wolfram Wagner, Export Manager
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MESTO is the leading manufacturer for professional hand compression sprayers in Europe with own production in Germany. We offer a full range of user-friendly compression sprayers

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United to Beat Malaria

SPONSOR

Emile Dawisha, Sr.
Communications Officer
edawisha@unfoundation.org
https://www.beatmalaria.org

United to Beat Malaria, a grassroots campaign of the UN Foundation, brings together strategic partners and supporters around the world to take urgent action to end malaria. For more than 15 years, United to Beat Malaria (previously known as Nothing But Nets) has helped protect more than 39 million of the world's most vulnerable people by providing vital malaria interventions, in addition to successfully advocating for increased U.S. leadership and funding for global malaria programs.

University of Minnesota, Medical School

Booth 304
Beth Scrudder, Instructional Designer
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Minneapolis, Minnesota 55455 USA
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bscudder@umn.edu
https://med.umn.edu/dom/education/global-medicine

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.

University of Notre Dame's Eck Institute for Global Health

Booth 208
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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.

University of Texas Medical Branch (UTMB) Research and Training Programs in Tropical and Emerging Infectious Diseases

Booth 320
Peter Melby, Director
301 University Boulevard, Mailroute 0435
Galveston, Texas 77555 USA
+1-210-317-5007
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https://www.utmb.edu/ihii/home
Twitter: @ihii_utmb

The University of Texas Medical Branch (UTMB) is unique in its research and training opportunities related to tropical and emerging infectious diseases. Coordinated leadership of multiple academic 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 laboratories, and arthropod and animal facilities enable research with high-containment pathogens. Multiple training opportunities, including NIH-funded T32 training programs are available to predoctoral and postdoctoral scientists, clinical trainees, and academic physicians.

Valneva

Island 309
Sheri Hall, US Marketing Manager
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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

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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.

Valneva Medical

SPONSORED SYMPOSIUM SPONSOR

Booth 221

Ellen Shannon, US Head of Medical Affairs
4550 Montgomery Avenue, Suite 460
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+1-301-793-0586
www.onthemap@valenva.com
https://onthemapwithtravelmedicine.com/

Visit Valneva's Medical Booth #221 for more information on arboviral diseases, especially those transmitted by Aedes mosquitoes.

Vectech

Booth 305

Tristan Ford
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tristan@vectech.io
https://www.vectech.io/

Vectech develops vector information and sensing solutions with AI and applied optics to support vector management organizations in achieving the best possible outcomes. Their IDX system for automated mosquito species identification, counting, and analysis of data was developed with support from the 2018 ASTMH Outbreak Innovations Pitch competition award.

Vestergaard

Island 335

Patrick Sieyes, Head of Global Growth, Public Health, Africa
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Twitter: @vestergaard

Vestergaard is one of the world's leading manufacturers of innovative, high-quality tools to improve global health outcomes in mainly low- and middle-income countries. Known for their PermaNet® long-lasting insecticidal nets (LLINs) to prevent malaria, the company has manufactured more than 800 million PermaNet® bed nets, protecting an estimated 1.6 billion lives in malaria-endemic countries.
Their partnerships and gro

VEuPathDB- University of Pennsylvania

Booth 418

Omar Harb, Director of Outreach & Education
Lynch Labs 433 S University Avenue
Philadelphia, Pennsylvania 19104 USA
oharb@sas.upenn.edu
https://VEuPathDB.org
Twitter: @veupathdb

VEuPathDB (https://VEuPathDB.org) is one of two NIAID-funded Bioinformatics Resource Centers (BRCs) providing free, on-line access to genomic scale data resources for >500 species of eukaryotic pathogens and related taxa, including protozoan parasites, fungi & oomycetes, arthropod vectors of disease, and selected host species. VEuPathDB resources empower end-users to leverage diverse multi-Omics datasets, without requiring specialized analytical or computational skills. Advanced search capabilities, data visualizations, and custom analysis tools are applied to genomic-scale datasets, enabling in silico hypothesis development and testing, and facilitating the discovery of meaningful biological relationships. Representatives from VEuPathDB will be available for live demonstration and discussions at booth #418.

VisionQuest Biomedical, Inc.

Booth 116

Vinayak Joshi, Vice President of Operations
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https://www.visionquest-bio.com/

VisionQuest revolutionizes malaria diagnostics with ASPIRE software to detect malarial retinopathy, a retinal biomarker of cerebral malaria, a fatal syndrome of malaria in Africa that kills hundreds of thousands of children annually. With an additional software plugin, ASPIRE provides automated screening for diabetic Retinopathy, a common complication of diabetes and leading cause of blindness. Detecting multiple retinal dysfunctions with the same device and setup makes ASPIRE cost-effective, affordable, and accessible to the populations in need.

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Vysnova Partners, Inc.

Booth 324

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Vysnova Partners brings a complete set of capabilities proven in diverse environments that meet the needs of our clients. A program management firm with over 10 years of experience delivering professional and technical services worldwide for Government clients. Vysnova provides a broad range of professional and institutional support services in Public/Global Health, Life Science Research & Development, M&E, Government Acquisition, and Information Technology. Our core focus is advancing the health and well-being of communities.

Walter Reed Army Institute of Research (WRAIR)

Booth 326

Lee Osberry
503 Robert Grant Avenue
Silver Spring, Maryland 20910 USA
+1-301-319-3347
lee.a.osberry.civ@health.mil
www.wrair.army.mil

The Walter Reed Army Institute of Research is the largest biomedical research laboratory in the DoD and is based in Maryland with facilities throughout the world. The Institute is committed to innovation and excellence with a military-specific focus to protect the health and readiness of the Warfighter.

Xpedite Diagnostics GmbH

Booth 108

Andy Wende, CEO
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We aim to eXpedite molecular Diagnostics by providing innovative and smart nucleic acid extraction products. Our core expertise is the rapid extraction of DNA and RNA with a growing portfolio of kits, which leverage our Reverse Purification and Cell-Capture technology. We innovate the field of nucleic acid extraction. We bring molecular technologies to the Point-of-Care. We value high quality and regulatory compliance.

Thursday, October 13

Clinical Pre-Meeting Course

The Big Syndromes in Tropical Medicine: A Practical Clinical Update on the Diagnosis and Management of Tropical Diseases

Virtual Course

Thursday, October 13, 1 p.m. – 5 p.m.

Tropical and travel related diseases may be grouped in syndromes depending on the characteristics of their presentations. The same infections can present with different manifestations and severity depending on the organism and the host. Their diagnostic and management approach may vary according to the type of exposure, burden of the infection and immunologic status of the host. Therefore, a given tropical disease may affect differently a refugee from an endemic country and a recently returned traveler. This pre-meeting course will provide the audience with a clinical update on the main tropical diseases' syndromes. Clinical tropical and travel medicine experts from around the world will present their state-of-the-art approach to the diagnosis and management of tropical and travel related diseases. Speakers will discuss the epidemiology and different presentations as well as appropriate work-up for syndromes affecting migrants and returned travelers. Interactive presentations will go over basic concepts and advanced practice points for each syndrome. Clinical case scenarios will be discussed by the experts at the end of each day with an open microphone format where the participants will be able to ask questions, share their experiences and obtain practical management tips.

COURSE CO-CHAIR

Sapha Barkati
Medicine, McGill University Health Centre, Montreal, QC, Canada

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

1 p.m.
INTRODUCTION
Sapha Barkati
McGill University Health Centre, Montreal, QC, Canada

1 p.m.
INTRODUCTION
Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

1:15 p.m.
SCREENING THE ASYMPTOMATIC TRAVELERS AND MIGRANTS
Michael Libman
McGill University, Montreal, QC, United States

2 p.m.
TRAVELERS AND MIGRANTS WITH DERMATOLOGIC SYNDROMES
Scott Norton
George Washington University, Washington, DC, United States

2:45 p.m.
BREAK

3 p.m.
APPROACH TO EOSINOPHILIA IN TRAVELERS AND MIGRANTS
Pedro Legua
Universidad Peruana Cayetano Heredia, Lima, Peru

3:45 p.m.
INTERACTIVE CASE PRESENTATIONS

Friday, October 14

The Big Syndromes in Tropical Medicine: A Practical Clinical Update on the Diagnosis and Management of Tropical Diseases

Virtual Course

Friday, October 14, 1 p.m. – 5 p.m.

1 p.m.
TRAVELERS AND MIGRANTS WITH DIARRHEA
Mark Riddle
University of Nevada, Reno, NV, United States

1:45 p.m.
APPROACH TO FEVER IN THE RETURNED TRAVELER AND MIGRANT
Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

2:30 p.m.
BREAK

2:45 p.m.
COMMON SYNDROMES IN THE PEDIATRIC TRAVELER AND MIGRANT
Susan Kuhn
University of Calgary, Calgary, AB, Canada

3:30 p.m.
INTERACTIVE CASE PRESENTATIONS

Saturday, October 29

ASTMH Board of Directors Meeting

Sheraton - Cirrus Ballroom (Pike Street Tower - 35th Floor)

Saturday, October 29, 8 a.m. – 3:15 p.m. U.S. Pacific Time Zone

Sunday, October 30

Registration

Convention Center - Atrium Lobby (4th Floor)
Sunday, October 30, 6:30 a.m. - 7:30 p.m. U.S. Pacific Time Zone

Speaker Ready Room

Convention Center - Room 310 (3rd Floor)
Sunday, October 30, 7 a.m. - 7:30 p.m. U.S. Pacific Time Zone

Workshop

Introduction to Spatial Analysis for Infectious Diseases

Convention Center - Room 204 (2nd Floor)
Sunday, October 30, 7:30 a.m. - 4:30 p.m. U.S. Pacific Time Zone

MAP is a global and interdisciplinary research collaboration with over 15-years of experience in the development of leading-edge databases, modelling, and analytics to provide robust and actionable information to support the global fight against malaria. We are partnering with ASTMH to offer an introductory course to Spatial Analysis for Infectious Disease Data using R and QGIS. Our experienced team of geospatial modelers will take participants through the handling, managing, and understanding of spatial data, connecting data to public health information needs, best practises in GIS and an introduction to spatial analysis. This workshop will provide participants with: - A fundamental understanding of the importance and utilization of spatial data in the public health field including identifying patterns, magnitude, and associated risk factors to guide decisions. - Hands on learning on handling data in R using various packages (e.g., base R, tidyverse, sf, sp, rgdal, raster). - Exercises in handling spatial data to produce disease risk maps in QGIS or R. - An understanding of the data structures and common storage/transfer formats for spatial data. - Hands-on modelling experience using R-INLA.

Metagenomics Pre-Meeting Course: Using Metagenomics to Survey Vector-Based Pathogens

Sheraton - Cirrus Ballroom (Pike Street Tower - 35th Floor)
Sunday, October 30, 8 a.m. - 5 p.m. U.S. Pacific Time Zone

Metagenomic next-generation sequencing (mNGS) is a powerful tool that enables sequencing all the genetic material in a sample. Sequencing all the microorganisms in a sample enables researchers to identify pathogens and novel taxa without a priori knowledge. This course will cover the basics of mNGS, from experimental design to data analysis, and its importance in global health. The data analysis portion of the course will be hands-on, focused on analyzing an mNGS dataset from mosquitoes collected from California using the tool Chan Zuckerberg ID (CZ ID). Chan Zuckerberg ID (CZ ID) is a free, open-source tool that enables researchers to analyze metagenomic datasets from their laptops without the need for computational skills. Although this course focuses on mNGS data acquired from mosquitoes, it should be noted that mNGS can be used to characterize the microbes in any sample type, so the tools learned in this course can be translated to other sample types of interests. Case studies of how mNGS has contributed to global health policies will also be covered.

COURSE ORGANIZER

Amy Krystosik
Chan Zuckerberg Initiative, Redwood City, CA, United States

8 a.m.
LIGHT CONTINENTAL BREAKFAST

8:30 a.m.
CASE STUDY: REAL-WORLD APPLICATION OF MNGS

Jessica E. Manning
National Institute of Allergy and Infectious Diseases, NIH, Phnom Penh, Cambodia

9 a.m.
WET LAB METHODS

Vida Ahyong
Chan Zuckerberg Biohub, San Francisco, CA, United States

Juliana Gil
Chan Zuckerberg Biohub, San Francisco, CA, United States

11 a.m.
BIOINFORMATICS INTRO

Liz Fahsbender
Chan Zuckerberg Initiative, Redwood City, CA, United States

Katrina Kalantar
Chan Zuckerberg Initiative, Redwood City, CA, United States

Noon - 1 p.m.
LUNCH

1 p.m.
CHAN ZUCKERBERG ID (CZ ID) INTRODUCTION AND HANDS-ON ACTIVITY (COFFEE BREAK INCLUDED)

Liz Fahsbender
Chan Zuckerberg Initiative, Redwood City, CA, United States

Katrina Kalantar
Chan Zuckerberg Initiative, Redwood City, CA, United States

5 p.m.
COURSE ADJOURNS

Workshop

Introduction to Data Sharing and Data Exploration on the ClinEpiDB Platform

Convention Center - Skagit 3 (Conference Center, 8th/Pike - Lower Level)
Sunday, October 30, 8 a.m. - 1 p.m. U.S. Pacific Time Zone

This workshop is for Global health researchers seeking to share data or to understand more about data sharing options; researchers seeking high quality data for secondary analysis, modeling, meta-analyses, etc.; students seeking high quality data for training purposes (theses, class projects, etc.); and trainees wanting to learn more about exploratory data analysis and data visualization with epidemiological data.Attendees will learn about the benefits and challenges of FAIR data access; understand how ontological mapping supports meta-analysis; and get hands-on training on ClinEpiDB's tools to efficiently identify, explore, visualize and download data of interest.

Young Investigator Award Sessions

CHAIR
Ann Moormann
University of Massachusetts Medical School, Worcester, MA, United States

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

Young Investigator Award Session A

Convention Center - Room 602/603/604 (6th Floor)
Sunday, October 30, 9 a.m. - 2 p.m. U.S. Pacific Time Zone

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

Lauren Cohee
University of Maryland School of Medicine, Baltimore, MD, United States

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

Tuan M Tran
University of Indiana, Indianapolis, IN, United States

9 a.m. 47

SAVING YOUNG LIVES: TRIAGE AND MANAGEMENT OF SEPSIS IN CHILDREN USING SMART TRIAGE

Yashodani Pillay[1], Dustin Dunsmuir[1], Katija Pallot[1], Matthew O. Wiens[1], Collins Agaba[2], Annette M. Nabweteme[3], Jessica Rigg[4], Stefanie K. Novakowski[1], Abner V. Tagoola[5], Niranjan Kissoon[1], Mark J. Ansermino[1]
[1]University of British Columbia, Vancouver, BC, Canada, [2]World Alliance for Lung and Intensive Care Medicine in Uganda *(WALIMU), Kampala, Uganda, [3]World Alliance For Lung and Intensive Care Medicine in Uganda (WALIMU), Kampala, Uganda, [4]Centre for International Child Health, Vancouver, BC, Canada, [5]Jinja Regional Referral Hospital, Jinja, Uganda*

9:15 a.m. 130

EFFECT OF CO-INFECTIONS ON THE TRANSMISSION OF CHIKUNGUNYA, MAYARO AND UNA VIRUSES BY *AEDES AEGYPTI* MOSQUITOES

Tessa Visser[1], Haidong Wang[2], Sandra Abbo[3], Chantal Vogels[4], Gorben Pijlman[3], Constantianus Koenraadt[1]
[1]Laboratory of Entomology, Department of Plant Sciences, Wageningen University & Research, Wageningen, Netherlands, [2]School of Public Health and Emergency Management, South University of Science and Technology, Shenzhen, China, [3]Laboratory of Virology, Department of Plant Sciences, Wageningen University & Research, Wageningen, Netherlands, [4]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

9:30 a.m. 151

DETERMINANTS OF SYMPTOMATIC DENGUE VIRUS INFECTION IN A PEDIATRIC COHORT IN NICARAGUA

Jose Victor Zambrana[1], Leah C. Katzelnick[2], Jorge Ruiz Salinas[1], Guillermina Kuan[1], Angel Balmaseda[1], Eva Harris[3]
[1]Sustainable Sciences Institute, Managua, Nicaragua, [2]Viral Epidemiology and Immunity Unit, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [3]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

9:45 a.m. 512

THIRTY DAYS MORTALITY PREDICTORS IN SEVERE ACUTE MALNOURISHED CHILDREN WITH SEVERE PNEUMONIA

Lubaba Shahrin
International Centre for Diarrheal Disease Research, Bangladesh, Dhaka, Bangladesh

10 a.m. 582

CARDIAC COMPLICATIONS OF HUMAN BABESIOSIS

Jane O'Bryan[1], Anne Spichler Moffarrah[2], Emily Ong[2], Peter J. Krause[2]
[1]Frank H. Netter MD School of Medicine at Quinnipiac University, North Haven, CT, United States, [2]Yale School of Medicine, New Haven, CT, United States

10:15 a.m. 625

TAQMAN ARRAY CARD MULTIPLEX PCR PANEL TO DETECT PATHOGENS IN WHOLE BLOOD OF FEBRILE INPATIENTS IN NORTHERN TANZANIA, 2016-2019.

James Samwel Ngocho[1], Jie Liu[2], Nathaniel H. Kalengo[3], Kajiru G. Kilonzo[1], Grace Kinabo[1], Bingileki F. Lwezaula[4], Furaha Lyamuya[1], Annette Marandu[4], Ronald Mbwasi[1], Blandina T. Mmbaga[5], Calvin Mosha[4], Manuela Carugati[6], Deng B. Madut[7], John P. Bonnewell[8], Michael J. Maze[9], Venance P. Maro[1], John A. Crump[10], Eric R. Houpt[2], Matthew P. Rubach[6]
[1]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, [2]Department of Medicine, Division of Infectious Diseases and International Health, University of Virginia, Charlottesville, VA, United States, [3]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, [4]Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, [5]Kilimanjaro Clinical Research Institute, Moshi, United Republic of Tanzania, [6]Division of Infectious Diseases and International Health, Department of Medicine, Duke University Medical Center, Durham, NC, United States, [7]Duke Global Health Institute, Duke University, Durham, NC, United States, [8]Department of Pathology & Laboratory Medicine, Roswell Park Comprehensive Cancer Center, Buffalo, NY, United States, [9]Department of Medicine, University of Otago, Christchurch, New Zealand, [10]11Centre for International Health, University of Otago, Dunedin, New Zealand

10:30 a.m. 821

SARS-COV-2 AND MALARIA INTERACTIONS IN PREGNANCY AND THEIR IMPACT ON BIRTH OUTCOMES IN UGANDA

Karen Blake Jacobson[1], Patience Nayebare[2], Abel Kakuru[2], Jimmy Kizza[2], Miriam Aguti[2], Felistas Nankya[2], Jessica Briggs[3], Saki Takahashi[3], Bryan Greenhouse[3], Isabel Rodriguez-Barraquer[3], Joaniter I. Nankabirwa[2], Gloria Cuu[2], Stephanie L. Gaw[3], Philip J. Rosenthal[3], Moses R. Kamya[2], Isaac Ssewanyana[2], Grant Dorsey[3], Prasanna Jagannathan[1]
[1]Stanford School of Medicine, Stanford, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]University of California, San Francisco School of Medicine, San Francisco, CA, United States

10:45 a.m.

1030

ASSOCIATION BETWEEN ANTIBIOTIC USE AND LENGTH OF HOSPITAL STAY AMONG CHILDREN PRESENTED WITH ACUTE WATERY DIARRHEA IN A TERTIARY CARE HOSPITAL, KARACHI

Zoya Haq[1], Sonia Qureshi[2], Shahzadi Resham[2], Marium Hashmi[2], Abdullah B. Naveed[1], Syed Asad Ali[2]

[1]Liaquat National Medical College, Karachi, Pakistan, [2]Aga Khan University Hospital, Karachi, Pakistan

11 a.m.

1080

STRONGYLOIDES STERCORALIS INFECTIONS IN THE MILITARY HEALTH SYSTEM

Branson Taheri[1], Nicole Hockenbury[2], Huai-Ching Kuo[3], Dan Lu[3], Edward Mitre[4], Patrick Hickey[5]

[1]Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [2]Infectious Disease Clinical Research Program, Henry Jackson Foundation, Bethesda, MD, United States, [3]Infectious Disease Clinical Research Program, Henry Jackson Foundation. Department of Preventive Medicine and Biostatistics, Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [4]Department of Microbiology and Immunology, School of Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [5]Department of Pediatrics, School of Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD, United States

11:15 a.m.

1188

ABAMETAPIR - A PROMISING SINGLE DOSE SCABICIDE CANDIDATE WITH MULTIPLE TARGETS

Gangi Rameshika Samarawickrama[1], Deepani D. Fernando[1], Tao Wang[2], Pasi Korhonen[2], Robin B. Gasser[2], Vern M. Bowles[3], Katja Fischer[1]

[1]Infection and Inflammation Program, QIMR Berghofer Medical Research Institute, Herston, Brisbane, Australia, [2]Faculty of Veterinary and Agricultural Sciences, University of Melbourne, Parkville, Victoria, Australia, [3]Centre for Animal Biotechnology, University of Melbourne, Parkville, Victoria, Australia

11:30 a.m.

1189

B-TRIKETONES, A NOVEL NEXT GENERATION SCABICIDE?

Nirupama A. Nammunige[1], Kylie Agnew-Francis[2], Sara Taylor[1], Hieng Lu[1], Deepani D. Fernando[1], Craig Williams[2], Katja Fischer[1]

[1]Cellular and Molecular Biology Department, Infectious Diseases Program, QIMR Berghofer Medical Research Institute, Herston, Australia, [2]School of Chemistry and Molecular Biosciences, University of Queensland, Herston, Australia

11:45 a.m.

1605

MOLECULAR CHARACTERIZATION OF EXTENDED-SPECTRUM BETA-LACTAMASE (ESBL) PRODUCING ESCHERICHIA COLI ISOLATED FROM HOSPITAL ENVIRONMENTS AND PATIENT SAMPLES IN BANGLADESH

M. Moniruzzaman[1], Mohammed Tanveer Hussain[2], Monir Hossain[1], Md. Sakib Hossain[1], Md. Tamzid Islam[1], Partha Paul[1], Md. Shafiqul Islam[1], Mahbubul H. Siddiqee[2], Dinesh Mondal[1], Zahid Hayat Mahmud[1]

[1]Laboratory Sciences and Services Division, International Center for Diarrheal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh, [2]Brac University, Dhaka, Bangladesh

Noon

1694

UNDERESTIMATION OF TUBERCULOSIS MORTALITY IN RESEARCH PARTICIPANTS CAUSED BY CONSENT BIAS

Luz Quevedo Cruz[1], Rosario Montoya Villanueva[2], Rosario Sosa Ccanto[2], Jessica Franco Gutierrez[2], Eric Ramos Maguiña[2], Nataly Bailon Gonzales[2], Jonathan Gomez Suarez[2], Maribel Rivero Moron[2], Matthew Saunders[1], Paula P. Carballlo-Jimenez[1], Carlton Evans[1], Sumona Datta[3]

[1]Imperial College London, London, United Kingdom, [2]Asociación Benéfica Prisma, Lima, Peru, [3]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

12:15 p.m.

1777

IMPACT OF NUTRITION ON TUBERCULOSIS TREATMENT OUTCOMES IN INDIA: A MULTICENTER PROSPECTIVE COHORT ANALYSIS

Pranay Sinha[1], Chinnaiyan Ponnuraja[2], Nikhil Gupte[3], Senbagavalli P. Babu[4], Samyra R. Cox[5], Sonali Sarkar[4], vidya Mave[3], Mandar Paradkar[6], Chelsie Cintron[1], S. Govindarajan[7], Aarti Kinikar[8], Nadesan Priya[9], Sanjay Gaikwad[8], Balamugesh Thangakunam[9], Arutselvi Devarajan[10], Mythili Dhanasekaran[11], Jeffrey A. Tornheim[5], Amita Gupta[12], Padmini Salgame[13], Devashyam J. Christopher[9], Hardy Kornfeld[14], Vijay Viswanathan[10], Jerrold J. Ellner[15], C. R. Horsburgh, Jr.[1], Akshay N. Gupte[1], Chandrasekaran Padmapriyadarsini[16], Natasha S. Hochberg[1]

[1]Boston University, Boston, MA, United States, [2]Indian Council of Medical Research, National Institute for Research in Tuberculosis, Chennai, India, [3]Byramjee Jeejeebhoy Government Medical College and Sassoon General Hospitals- Johns Hopkins University Clinical Research Site, Pune, India, [4]Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India, [5]Division of Infectious Diseases, Center for Clinical Global Health Education, Johns Hopkins University, School of Medicine, Baltimore, MD, United States, [6]Johns Hopkins India, Pune, India, [7]National Tuberculosis Elimination Programme, Puducherry, India, [8]Byramjee Jeejeebhoy Government Medical College and Sassoon General Hospitals, Pune, India, [9]Christian Medical College, Vellore, India, [10]Prof. M. Viswanathan Diabetes Research Centre, Chennai, India, [11]Prof. M. Viswanathan Diabetes Research Centre,, Chennai, India, [12]Division of Infectious Diseases, Center for Clinical Global Health Education, Johns Hopkins University, School of Medicine,, Baltimore, MD, United States, [13]Center for Emerging Pathogens, Department of Medicine, New Jersey Medical School, Rutgers Biomedical and Health Sciences,, Newark, NJ, United States, [14]Department of Medicine, University of Massachusetts Chan Medical School, Worcester, MA, United States, [15]Center for Emerging Pathogens, Department of Medicine, New Jersey Medical School, Rutgers Biomedical and Health Sciences, Newark, NJ, United States, [16]Indian Council of Medical Research, National Institute for Research in Tuberculosis,, Chennai, India

12:30 p.m.

1784

INTERMITTENT PREVENTIVE TREATMENT WITH DIHYDROARTEMISININ-PIPERAQUINE FOR THE PREVENTION OF MALARIA IN PREGNANCY: IMPLEMENTATION FEASIBILITY IN A ROUTINE HEALTHCARE SYSTEM SETTING IN WESTERN KENYA

Hellen C. Barsosio[1], Jayne Webster[2], Frederick Omiti[1], Alloys K'Oloo[1], Michael A. Ojuok[1], Dawn Odiwa[1], Benson Omondi[1], Elizabeth Okello[1], Feiko O. ter Kuile[3], Maia Lesosky[3], Simon Kariuki[1], Jenny Hill[3]

[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]London School of Hygiene and Tropical Medicine, London, United Kingdom, [3]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

12:45 p.m.

1798

EFFECTS OF MATERNAL INTRAVENOUS IRON TREATMENT DURING PREGNANCY ON CHILD MORBIDITY IN THE FIRST POSTPARTUM YEAR IN MALAWI: A RANDOMIZED CONTROLLED TRIAL

Glory Mzembe[1], Gomezgani Mhango[2], Mphatso Mwambinga[2], Zinenani Truwah[2], William Nkhono[1], Sant-Rayn Parischa[3], Martin N. Mwangi[2], Kamija S. Phiri[2]

[1]Kamuzu University of Health Sciences, Blantyre, Malawi, [2]Training and Research Unit of Excellence (TRUE), Blantyre, Malawi, [3]Population Health and Immunity Division, The Walter and Eliza Hall Institute of Medical Research (WEHI), Melbourne, Australia

Young Investigator Award Session B

Convention Center - Room 605/610 (6th Floor)
Sunday, October 30, 9 a.m. - 2 p.m. U.S. Pacific Time Zone

JUDGE

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

Dionicia Gamboa
Universidad Peruana Cayetano Heredia, Lima, Peru

Prasanna Jagannathan
Stanford, Stanford, CA, United States

Geofrey Makenga
National Institute for Medical Research (NIMR), Tanzania, United Republic of Tanzania

9 a.m. 121

USING BAYESIAN STATE-SPACE MODELS TO UNDERSTAND THE POPULATION DYNAMICS OF THE DOMINANT MALARIA VECTOR, ANOPHELES FUNESTUS IN RURAL TANZANIA

Halfan S. Ngowo[1], Fredros O. Okumu[1], Emmanuel E. Hape[1], Issa H. Mshani[1], Heather M. Ferguson[2], Jason Matthiopoulos[2]
[1]Ifakara Health Institute, Ifakara, United Republic of Tanzania, [2]University of Glasgow, Glasgow, United Kingdom

9:15 a.m. 277

MODELLING THE OPTIMAL ALLOCATION OF GLOBAL MALARIA FUNDING FOR ERADICATION

Nora Schmit, Matteo Pianella, Hillary M. Topazian, Giovanni D. Charles, Peter Winskill, Katharina Hauck, Azra C. Ghani
Imperial College London, London, United Kingdom

9:30 a.m. 440

SPATIOTEMPORAL DISTRIBUTION AND DETERMINANTS OF SCRUB TYPHUS IN THAILAND

Reiden Magdaleno[1], Abigail Collingwood[1], Richard P. Fiorella[2], Edward Ionides[3], Kevin M. Bakker[4]
[1]University of Michigan School of Public Health, Ann Arbor, MI, United States, [2]Department of Geology and Geophysics, University of Utah, Salt Lake City, UT, United States, [3]Department of Statistics, University of Michigan, Ann Arbor, MI, United States, [4]Department of Epidemiology, University of Michigan, Ann Arbor, MI, United States

9:45 a.m. 1002

STRATEGIC INTRODUCTION OF THE RTS,S/AS01 MALARIA VACCINE RELATIVE TO SCALE-UP OF EXISTING INTERVENTIONS

Hillary M. Topazian, Nora Schmit, Ines Gerard-Ursin, Giovanni D. Charles, Azra C. Ghani, Peter Winskill
Imperial College London, London, United Kingdom

10 a.m. 1060

GEOSPATIAL MODELING OF THE BASELINE ONCHOCERCA VOLVULUS NODULE PREVALENCE IN ETHIOPIA AS AN AID TO ELIMINATION

Himal Shrestha, Shannon M. Hedtke, Karen McCulloch, Warwick N. Grant
La Trobe University, Bundoora, Australia

10:15 a.m. 1350

THE IMPACT OF DEMOGRAPHIC TRANSITION AND SOCIO-ECONOMIC FACTORS ON DENGUE CIRCULATION IN BRAZIL, 2001-2020

Sarah Kada[1], Michael A. Johansson[1], Jessica L. Butler[2], Talia M. Quandelacy[2]
[1]CDC, San Juan, PR, United States, [2]University of Colorado, Colorado School of Public Health, Aurora, CO, United States

10:30 a.m. 1601

EXAMINING THE RANGE OF SPATIAL EFFECTS OF NEW CLASSES OF LONG-LASTING INSECTICIDAL NETS (LLINS) ON MALARIA INFECTION AND VECTOR DENSITY: AN ANISOTROPIC SEMIVARIANCE ANALYSIS IN THE CONTEXT OF A PHASE III CLUSTER RANDOMIZED MALARIA VECTOR CONTROL TRIAL OF DUAL ACTIVE INGREDIENT LLINS

Charles R. Thickstun[1], Jacklin F. Mosha[2], Eliud Lukole[2], Nancy S. Matowo[3], Elizabeth Mallya[4], Jacklin Martin[2], Alphaxard Manjurano[2], Immo Kleinschmidt[5], Franklin W. Mosha[4], Mark Rowland[3], Monica Taljaard[6], Natacha Protopopoff[3], Manisha A. Kulkarni[6]
[1]University of Ottawa, Ottawa, ON, Canada, [2]Department of Parasitology, National Institute for Medical Research, Mwanza Medical Research Centre, Mwanza, United Republic of Tanzania, [3]Department of Disease Control, London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Department of Parasitology, Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, [5]MRC International Statistics and Epidemiology Group, London School of Hygiene & Tropical Medicine, London, United Kingdom, [6]School of Epidemiology and Public Health, University of Ottawa, Ottawa, ON, Canada

10:45 a.m. 1669

CONSIDERATION OF SCALE IN THE APPLICATION OF SPATIAL STATISTICAL MODELS TO IDENTIFY AREAS AND CLUSTERS OF RELATIVE LOW COVERAGE FROM A LYMPHATIC FILARIASIS MASS DRUG ADMINISTRATION CAMPAIGN IN LEOGANE AND GRESSIER, HAITI

Elaina Sinclair[1], Luccène Desir[1], Madsen Beau-de-Rochars[1], Mérilien Jean-Baptiste[2], Marc-Aurèle Telfort[2], Lance A. Waller[3], Karen E.S. Hamre[1]
[1]The Carter Center, Atlanta, GA, United States, [2]Ministere de la Sante Publique et de la Population, Port-au-Prince, Haiti, [3]Emory University, Atlanta, GA, United States

11 a.m. 1696

INSIGHTS INTO ENVIRONMENTAL DETERMINANTS OF SOIL-TRANSMITTED HELMINTHS TRANSMISSION USING GPS TRACKING TECHNOLOGY

Jeffrey G. Sumboh[1], Eyram Schwinger[2], Irene O. Donkor[3], Jewelna E.B. Akorli[1], Duah Dwomoh[4], Felix O. Ababio[5], Michael Cappello[6], Michael D. Wilson[1]
[1]Department of Parasitology, Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]Department of Mathematics, University of Ghana, Accra, Ghana, [3]Department of Epidemiology, Noguchi Memorial Institute for Medical Research, Accra, Ghana, [4]School of Public Health, University of Ghana, Accra, Ghana, [5]Soil Research Institute, Council for Scientific and Industrial Research, Accra, Ghana, [6]Department of Pediatrics and Program in International Child Health, Yale University School of Medicine, New Haven, CT, United States

11:15 a.m. 1750

HOUSEHOLD TRANSMISSION OF THE SARS-COV-2 OMICRON VARIANT IN AN URBAN SLUM SETTLEMENT IN BRAZIL

Juan P. Aguilar Ticona[1], Nivison Nery Jr[2], Mariam O. Fofana[3], Emilia M. M. Andrade Belitardo[2], Ricardo Khouri[2], Olatunji Johnson[4], Renato Victoriano[2], Jaqueline S. Cruz[2], Guilherme S. Ribeiro[2], Mitermayer G. Reis[2], Derek A.T. Cummings[5], Federico Costa[1], Albert I. Ko[3]
[1]Instituto de Saúde Coletiva, Universidade Federal da Bahia, Salvador, Brazil, [2]Instituto Gonçalo Moniz, Fundação Oswaldo Cruz, Ministério da Saúde, Salvador, Brazil, [3]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, [4]Department of Mathematics, University of Manchester, Manchester, United Kingdom, [5]Department of Biology, University of Florida, Gainesville, FL, United States

11:30 a.m. 1770

AN 8-GENE MACHINE LEARNING MODEL IMPROVES CLINICAL PREDICTION OF SEVERE DENGUE PROGRESSION

Yiran Liu
Stanford University, Stanford, CA, United States

Young Investigator Award Session C

Convention Center - Room 606/607 (6th Floor)
Sunday, October 30, 9 a.m. - 2 p.m. U.S. Pacific Time Zone

JUDGE

Gregory A. Deye
NIH, Rockville, MD, United States

Tracey Lamb
University of Utah, Salt Lake City, UT, United States

Javan Ochieng Okendo
University of Cape Town, Cape Town, South Africa

Anita Suresh
FIND, Geneva, Switzerland

9 a.m. 2

CLASSICAL GENETICS IDENTIFIES MULTIPLE GENETIC LOCI INFLUENCING RESPONSE TO ANTIMALARIAL DRUG COMBINATIONS

Mackenzie A.C. Sievert[1], Richard T. Eastman[2], Katrina Button-Simons[1], Lisa A. Checkley[1], Zione Cassady[1], Sudhir Kumar[3], Xue Li[4], Marina McDew-White[4], Zina Itkin[2], Stefan H. Kappe[3], Anton Simeonov[2], François H. Nosten[5], Ian H. Cheeseman[4], Timothy J.C. Anderson[4], Ashley M. Vaughan[3], Michael T. Ferdig[1]
[1]University of Notre Dame, South Bend, IN, United States, [2]National Center for Advancing Translational Sciences, Rockville, MD, United States, [3]Seattle Children's Research Institute, Seattle, WA, United States, [4]Texas Biomedical Research Institute, San Antonio, TX, United States, [5]Shoklo Malaria Research Unit, Mahidol University, Mae Sot, Thailand

9:15 a.m. 118

COMBINING MULTIPLE METHODS OF NEXT GENERATION SEQUENCING ENHANCES UNDERSTANDING OF INSECTICIDE RESISTANCE MECHANISMS IN PERMETHRIN RESISTANT AN. COLUZZII DISPLAYING REDUCED PBO-SYNERGY FROM MAFERINYAH, GUINEA

Bethanie J. Pelloquin[1], Moussa Sylla[2], Noboru Minakawa[3], Mark Rowland[1], Susana Campino[1], Thomas Walker[1], Louisa A. Messenger[1]
[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]Centre de Formation et de Recherche en Santé Rurale de Mafèrinyah, Conakry, Guinea, [3]Nagasaki University, Nagasaki, Japan

9:30 a.m. 148

THE ROLE OF ANTIGENIC AND GENETIC DIVERSITY IN DRIVING THE INFECTION AND DISEASE RISKS OF DENGUE VIRUS

Lin Wang[1], Angkana T. Huang[1], Leah C. Katzelnick[2], Ana Coello Escoto[2], Rachel Sippy[1], Richard Jarman[3], Stefan Fernandez[4], Irina Maljkovic Berry[3], Simon Cauchemez[5], Derek A. T. Cummings[6], Henrik Salje[1]
[1]University of Cambridge, Cambridge, United Kingdom, [2]National Institutes of Health, Bethesda, MD, United States, [3]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [4]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [5]Institut Pasteur, Paris, France, [6]University of Florida, Gainesville, FL, United States

9:45 a.m. 217

ASSESSMENT OF *PLASMODIUM FALCIPARUM* ARTEMISININ RESISTANCE INDEPENDENT OF KELCH13 POLYMORPHISMS AND WITH ESCALATING MALARIA IN BANGLADESH

Maisha Khair Nima[1], Angana Mukherjee[1], Saiful Arefeen Sazed[2], Muhammad Riadul Haque Hossainey[3], Ching Swe Phru[2], Fatema Tuj Johora[4], Innocent Safeukui[1], Barbara Calhoun[1], Wasif Ali Khan[2], Mohammad Shafiul Alam[2], Kasturi Haldar[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]icddr,b, Dhaka, Bangladesh, [3]George Washington University, Washington, DC, United States, [4]Georgia State University, Atlanta, GA, United States

10 a.m. 570

GENOME-WIDE SNPS ANALYSIS FOR TRACKING THE SPREAD OF ANOPHELES STEPHENSI IN EASTERN ETHIOPIA AND SOMALILAND

Jeanne N. Samake[1], Philip Lavretsky[2], Isuru Gunarathna[1], Solomon Yared[3], Dejene Getachew[4], Said Ali[5], Dereje Dengela[6], Meshesha Balkew[6], Sarah Zohdy[7], Seth R. Irish[7], Tamar E. Carter[1]
[1]Baylor University, Waco, TX, United States, [2]University of Texas at El Paso, El Paso, TX, United States, [3]Jigjiga University, Jigjiga, Ethiopia, [4]Dire Dawa University, Dire Dawa, Ethiopia, [5]Somaliland Ministry of Health Department, Hargeisa, Somalia, [6]PMI VectorLink Ethiopia Project, Abt Associates, Addis Ababa, Ethiopia, [7]U.S. President's Malaria Initiative, Entomology Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

10:15 a.m. 575

GENOMIC SIGNATURES OF SEXUAL SELECTION IN THE YELLOW FEVER MOSQUITO *AEDES AEGYPTI*

Claudia A. Wyer[1], Brian Hollis[2], Lauren J. Cator[1]
[1]Imperial College London, Ascot, United Kingdom, [2]University of South Carolina, Columbia, SC, United States

10:30 a.m. 602

SINGLE-CELL APPROACHES TO DISSECTING *BRUGIA MALAYI* PARASITE-HOST-DRUG INTERACTIONS

Clair Henthorn, Paul Airs, Mostafa Zamanian
University of Wisconsin- Madison, Madison, WI, United States

10:45 a.m. 628

METAGENOMIC NEXT-GENERATION SEQUENCING OF NASOPHARYNGEAL SWABS IN ACUTE FEBRILE ILLNESS IN CAMBODIA

Christina Yek[1], Sreyngim Lay[2], Sophana Chea[2], Jennifer A. Bohl[3], Mengheng Oum[2], Sokna Ly[2], Ratanak Sath[2], Vida Ahyong[4], Cristina M. Tato[4], Heng Seng[5], Sovann Ly[5], Chanthap Lon[2], Jessica E. Manning[1]
[1]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, [2]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, Phnom Penh, Cambodia, [3]Vaccine Research Center, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [4]Chan Zuckerberg Biohub, San Francisco, CA, United States, [5]Department of Communicable Disease, Ministry of Health, Phnom Penh, Cambodia

11 a.m. 753

WHOLE TRANSCRIPTOMIC ANALYSIS OF ANOPHELES ARABIENSIS RESISTANT TO PYRETHROIDS AND ORGANOPHOSPHATES FROM WESTERN KENYA REVEALS OVEREXPRESSION OF SALIVARY GLAND AND CUTICULAR PROTEINS

Diana Omoke[1], Lucy Impoinvil[2], Dieunel Derilus[2], Stephen Okeyo[1], Helga Saizonou[3], Nicola Mulder[4], Nsa Dada[5], Audrey Lenhart[2], Luc Djogbénou[3], Eric Ochomo[1]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]University of Abomey - Calavi, Godomey, Benin, [4]Human, Heredity and Health in Africa H3ABionet network, Cape Town, South Africa, [5]Arizona State University, Phoenix, AZ, United States

11:15 a.m. 1197

RNA SEQUENCING WITH DE NOVO ASSEMBLY INDICATES EXPRESSION OF DUAL-BINDING PFEMP1S IN MALIAN CHILDREN WITH SEVERE MALARIA

Emily M. Stucke[1], Drissa Coulibaly[2], Rafal Sobota[1], Jonathan Lawton[1], Savy M. Sebastian[1], Matthew Adams[1], Noah T. Ventimiglia[1], James B. Munro[1], Ankit Dwivedi[1], Antoine Dara[2], Abdoulaye K. Kone[1], Karim Traoré[2], Bouréima Guindo[2], Bourama M. Tangara[2], Amadou Niangaly[2], Modibo Daou[2], Issa Diarra[2], Youssouf Tolo[2], Mody Sissoko[2], Bryan Cummings[1], Albert E. Zhou[1], Matthew B. Laurens[1], Amed Ouattara[1], Bourema Kouriba[2], Ogobara K. Doumbo[2], Shannon Takala Harrison[1], Christopher V. Plowe[1], Joana C. Silva[1], Mahamadou A. Thera[2], Mark A. Travassos[1]
[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]University of Sciences, Techniques and Technologies, Bamako, Mali

11:30 a.m. 1427

IDENTIFICATION OF NOVEL DETERMINANTS ASSOCIATED WITH QUININE AND CHLOROQUINE RESISTANCE IN A *PLASMODIUM FALCIPARUM* GENETIC CROSS

Mariko Kanai[1], Sachel Mok[1], Leila S. Ross[1], Tomas Yeo[1], Melanie J. Shears[2], Meseret T. Haile[1], Abhai K. Tripathi[2], Godfree Mlambo[2], Kate J. Fairhurst[1], Jessica L. Bridgford[1], Felix D. Rozenberg[1], Heekuk Park[1], Jennifer L. Small-Saunders[1], Marcus CS Lee[3], Anne-Catrin Uhlemann[1], Photini Sinnis[2], David A. Fidock[1]
[1]Columbia University Irving Medical Center, New York, NY, United States, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Wellcome Genome Campus, Hinxton, United Kingdom

11:45 a.m. 1722

DELETION-DUPLICATION EVENT MAY EXPLAIN GEOGRAPHICAL DIFFERENCES IN *PLASMODIUM FALCIPARUM* WITH HISTIDINE-RICH PROTEIN 3 DELETION

Isaac Elijah Kim[1], Nicholas J. Hathaway[2], Neeva Wernsman Young[3], David Giesbrecht[4], Jonathan J. Juliano[5], Jonathan B. Parr[6], Jeffrey A. Bailey[7]
[1]Center for Computational Molecular Biology and Warren Alpert Medical School, Brown University, Providence, RI, United States, [2]Department of Medicine, University of Massachusetts Chan Medical School, Worcester, MA, United States, [3]Department of Molecular Pharmacology, Physiology and Biotechnology, Brown University, Providence, RI, United States, [4]Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, United States, [5]Department of Epidemiology, Division of Infectious Diseases, and Curriculum in Genetics and Molecular Biology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [6]Curriculum in Genetics and Molecular Biology and Division of Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [7]Center for Computational Molecular Biology and Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, United States

Noon 1723

UNDERSTANDING THE GENOMIC DIVERSITY OF *PLASMODIUM VIVAX* RELAPSES IN THE SOLOMON ISLANDS

Caitlin Bourke, Shazia Ruybal Pesántez, Jiru Han, Jacob Munro, Robert James, Aaron Jex, Harin Karunajeewa, Melanie Bahlo, Ivo Mueller
Walter and Eliza Hall Institute, Parkville, Australia

12:15 p.m. 1774

A SINGLE HISTIDINE TO ARGININE SUBSTITUTION ON THE PRE-MEMBRANE (PRM) PROTEIN ATTENUATED A TYPE-2 DENGUE VIRUS THAT CAUSED THE SOUTH PACIFIC ISLAND OUTBREAKS IN THE 1970S

Allyson N. X. Choi, Milly M. Choy, Tanamas Siriphanitchakorn, Menchie Manuel, Lowell Z. Lin, Xin Yap, Eng Eong Ooi, Duane J. Gubler
DUKE-NUS Medical School, Singapore, Singapore

Young Investigator Award Session D

Convention Center - Room 608/609 (6th Floor)
Sunday, October 30, 9 a.m. - 2 p.m. U.S. Pacific Time Zone

Sunday October 30

JUDGE

Sasisekhar Bennuru
NIH, Bethesda, MD, United States

Bismarck Dinko
University of Health and Allied Sciences, Ho, Ghana

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

Demba Sarr
Pasteur Institute of Dakar, Dakar, Senegal

9 a.m. 158

LONGITUDINAL ASSESSMENT OF DENGUE NS1-SPECIFIC HUMORAL IMMUNE MEMORY IN HUMAN COHORTS FOLLOWING PRIMARY DENGUE INFECTION

Zoe L. Lyski[1], Brian Booty[1], Courtney A. Micheletti[1], Samantha R. Osman[1], Rachel Rodríguez-Santiago[2], Vanessa Rivera-Amill[2], William B. Messer[1]
[1]Oregon Health and Science University, Portland, OR, United States, [2]Ponce Health and Science University, Ponce, Puerto Rico

9:15 a.m. 190

SARS-COV-2 SEROPREVALENCE IN RURAL & URBAN POPULATIONS IN GHANA

Irene Owusu Donkor[1], Jewelna Akorli[1], Millicent Opoku[1], Yvonne Ashong[1], Nana Efua Andoh[1], Jeffrey Sumboh[1], Kojo Mensah Sedzro[1], Abuaku Benjamin[1], Vincent Munster[2], Kwadwo Ansah Koram[1]
[1]Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana, [2]Rocky Mountain Laboratories, Hamilton, MT, United States

9:30 a.m. 335

EVALUATION OF NATURALLY ACQUIRED IMMUNITY AGAINST NOVEL *PLASMODIUM VIVAX* PRE-ERYTHROCYTIC ANTIGENS IN HUMAN POPULATION FROM LOW ENDEMIC MALARIA REGION

Julio A. Ventocilla[1], L. Lorena Tapia[2], Joao Aguiar[3], Brandon K. Wilder[2]
[1]Vysnova Partners Inc / NAMRU-6, Lima, Peru, [2]U.S. Naval Medical Research Unit No.6, Lima-Peru (NAMRU-6), Lima, Peru, [3]Naval Medical Research Center (NMRC) and CAMRIS International Inc., Maryland, MD, United States

9:45 a.m. 422

GUT MICROBIOTA-DERIVED LIPIDS CORRELATE WITH ORAL CHOLERA VACCINE RESPONSES AND THESE LIPIDS IMPACT INNATE IMMUNE RESPONSES *IN VITRO*

Denise Chac[1], Chelsea N. Dunmire[1], Fahima Chowdhury[2], Ashraful I. Khan[2], Taufiqur R. Bhuiyan[2], Edward T. Ryan[3], Regina C. LaRocque[3], Jason B. Harris[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

10 a.m. 647

MAPPING ZIKA VIRUS-SPECIFIC NEUTRALIZING IMMUNITY FOR OPTIMAL VACCINE DEVELOPMENT

Kathryn H. Radulovacki[1], Daniel O. Espinoza[1], Yerun Zhu[1], Jaime A. Cardona-Ospina[2], Christina Mehta[1], Oyindamola Yusuf[1], Vincent Dussupt[3], Gina C. Donofrio[3], Nadine Rouphael[1], Alfonso J. Rodriguez-Morales[2], Srilatha Edupuganti[1], Kayvon Modjarrad[3], Mark J. Mulligan[4], Aravinda M. de Silva[5], Shelly J. Krebs[3], Matthew H. Collins[1]
[1]Emory University School of Medicine, Atlanta, GA, United States, [2]Fundación Universitaria Autónoma de las Américas, Pereira, Colombia, [3]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [4]NYU Langone Vaccine Center, New York, NY, United States, [5]University of North Carolina Chapel Hill, Chapel Hill, NC, United States

10:15 a.m. 648

HUMORAL AND T-CELL-MEDIATED RESPONSES TO A PRE-CLINICAL ZIKA VACCINE CANDIDATE THAT UTILIZES A UNIQUE INSECT-SPECIFIC FLAVIVIRUS PLATFORM

Danielle L. Porier, Manette Tanelus, William B. Stone, Krisangel Lopez, Dawn I. Auguste, Albert J. Auguste
Virginia Polytechnic Institute and State University, Blacksburg, VA, United States

10:30 a.m. 677

PATHOGENESIS OF CHIKUNGUNYA VIRUS ASSOCIATED WITH FATAL OUTCOMES

William M. de Souza[1], Marcilio J. Fumagalli[2], Shirlene T. Lima[3], Jeany Delafiori[4], Priscilla P. Barbosa[4], Stefanie P. Muraro[4], Gabriela F. Souza[4], Viviane S. Boaventura[5], Ester C. Sabino[6], Ricardo Khouri[7], Rodrigo R. Catharino[4], Luiz Tadeu M. Figueiredo[8], Nuno R. Faria[9], José Luiz P. Modena[4], Scott C. Weaver[1]
[1]University of Texas Medical Branch, Galveston, TX, United States, [2]The Rockefeller University, New York City, NY, United States, [3]Central Public Health Laboratory of Ceará State, Fortaleza, Brazil, [4]University of Campinas, Campinas, Brazil, [5]Universidade Federal da Bahia, Salvador, Brazil, [6]University of São Paulo, São Paulo, Brazil, [7]Fundação Oswaldo Cruz-Fiocruz, Salvador, Brazil, [8]University of São Paulo, Ribeirao Preto, Brazil, [9]Imperial College London, London, United Kingdom

10:45 a.m. 815

HIGH SEROPOSITIVITY OF SARS-COV-2 DURING THE OMICRON WAVE IN AN URBAN CITY IN GHANA

Elvis Suatey Lomotey, Daniel Odumang, Grace Opoku Gyamfi, Millicent Oye Kyei, Millicent Selassie Afatodzie, Christopher Dorcoo, Juliana Tetteh, Millicent Opoku, Nana Efua Andoh, Yvonne Ashong, Jewelna Akorli, Irene Owusu Donkor
Noguchi Memorial Institute for Medical Research, Legon-Accra, Ghana

11 a.m. 818

SARS-COV-2-SPECIFIC IGG MEASURED IN SALIVA REFLECTS IMMUNE STATUS ARISING FROM SARS-COV-2 INFECTION AND COVID-19 VACCINATION

Anusha Panjwani[1], Nora Pisanic[2], Neena Edupuganti[1], Trevor W. Simon[1], Jonathan Pollak[2], Kate Kruczynski[2], Magdielis G. Rivera[2], Daniel O. Espinoza[1], Yerun Zhu[1], Jessica R. Howard-Anderson[1], Scott Fridkin[1], Erin M. Scherer[1], Christopher D. Heaney[2], Matthew H. Collins[1]
[1]Emory University School of Medicine, Atlanta, GA, United States, [2]Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

11:15 a.m. 957

CHARACTERIZING SEROLOGICAL RESPONSES TO VARIANT SURFACE ANTIGENS IN FIRST *PLASMODIUM FALCIPARUM* INFECTIONS IN MALAWIAN INFANTS

Bernadette Hritzo[1], Rosita Asawa[1], Amed Ouattara[1], Andrea A. Berry[1], Liana R. Andronescu[1], Biraj Shrestha[1], Rie Nakajima[2], Aarti Jain[2], Omid Taghavian[2], Algis Jasinskas[2], Philip L. Felgner[2], Jobiba Chinkhumba[3], Don Mathanga[3], Mark Travassos[1], Miriam K. Laufer[1]
[1]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [2]Vaccine Research & Development Center, Department of Physiology & Biophysics, School of Medicine, University of California, Irvine, Irvine, CA, United States, [3]Malaria Alert Center, Kamuzu University of Health Sciences, Blantyre, Malawi

11:30 a.m. 1407

DEFINING PROTECTIVE ANTIBODY RESPONSES TO A RECOMBINANT SUBUNIT EBOLA VIRUS VACCINE: THE SEARCH FOR A CORRELATE OF PROTECTION

Aquena Ball, Teri Wong, Chih-Yun Lai, Albert To, Axel Lehrer
University of Hawaii at Manoa, Honolulu, HI, United States

11:45 a.m. 1693

RELIABLE ESTIMATION OF SARS-COV-2 ANTI-SPIKE PROTEIN IGG TITERS FROM SINGLE DILUTION ELISA OPTICAL DENSITY VALUES IN SEROEPIDEMIOLOGICAL SURVEYS

Emília Maria Medeiros de Andrade Belitardo[1], Nivison Nery Jr[2], Juan P. Aguilar Ticona[2], Moyra Machado Portilho[1], Guilherme Ribeiro[2], Mitermayer Galvão Reis[1], Federico Costa[3], Derek A. t. Cummings[4], Albert I. Ko[5], Mariam O. Fofana[5]
[1]Oswaldo Cruz Foundation, Salvador - Bahia, Brazil, [2]Federal University of Bahia, Salvador - Bahia, Brazil, [3]Collective Health Institute - Federal University of Bahia, Salvador - Bahia, Brazil, [4]Emerging Pathogens Institute, University of Florida, Gainesville, FL, United States, [5]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

Noon 1747

BAYESIAN FRAMEWORK TO ESTIMATE SARS-COV-2 REINFECTIONS FROM SERIAL SEROLOGIC SURVEYS IN AN URBAN SLUM POPULATION

Mariam Fofana[1], Juan Pablo Aguilar Ticona[2], Emilia Belitardo[2], Nivison Nery Jr[2], Renato Victoriano[2], Rosangela Anjos[2], Moyra Portilho[2], Mayara Carvalho de Santana[2], Laiara dos Santos[2], Daiana de Oliveira[2], Olatunji Johnson[3], Mitermayer Reis[2], Guilherme Ribeiro[2], Matt D.T. Hitchings[4], Federico Costa[5], Derek Cummings[4], Albert Ko[1]
[1]Yale School of Public Health, New Haven, CT, United States, [2]Instituto Goncalo Moniz - FIOCRUZ, Salvador, Brazil, [3]University of Manchester, Manchester, United Kingdom, [4]University of Florida, Gainesville, FL, United States, [5]Universidade Federal da Bahia, Salvador, Brazil

12:15 p.m. 1752

A NEUTROPHIL-ACTIVATING MICROBE IS REDUCED IN THE NASO-OROPHARYNX OF COVID-19 PATIENTS IN AN AFRICAN POPULATION: IMPLICATIONS FOR DISEASE SEVERITY

Jewelna Akorli, Millicent Opoku, Margaret Sena Akpo, Rahmat bint Yusif Ismail, Irene Owusu Donkor
Noguchi Memorial Institute for Medical Research, University of Ghana, Legon- Accra, Ghana

12:30 p.m. 1762

INVESTIGATING THE ROLE OF CHLAMYDIA-SPECIFIC ANTIBODIES IN OCULAR INFECTION AND DISEASE PROGRESSION

Rebecca Sarsam[1], Anna Harte[1], Athumani Ramadhani[2], Harry Pickering[1], Tamsyn Derrick[1], Amber Barton[1], Elias Mafuru[2], Patrick Massae[2], Kelvin Mbuya[2], William Makupa[2], Tara Mtuy[1], Robin L. Bailey[1], David CW Mabey[1], Matthew J. Burton[1], Martin J. Holland[1]
[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania

12:45 p.m. 1834

CELLULAR DYNAMICS OF IMMUNE EVASION DURING LEISHMANIA MAJOR INFECTION

Romaniya Zayats
University of Manitoba, Winnipeg, MB, Canada

Young Investigator Award Session E

Convention Center - Room 611/612 (6th Floor)
Sunday, October 30, 9 a.m. - 2 p.m. U.S. Pacific Time Zone

JUDGE

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

Michael Iroezindu
Walter Reed Program, Nigeria, Nigeria

Hugues Clotaire Nana Djeunga
University of Yaounde I, Yaounde, Cameroon

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

9 a.m. 1

PREDICTING THE EMERGENCE OF PIPERAQUINE-RESISTANT *PLASMODIUM FALCIPARUM* MALARIA IN AFRICA

Laura M. Hagenah, Kyra A. Schindler, Jennifer L. Small-Saunders, Kathryn Wicht, David A. Fidock
Columbia University Irving Medical Center, New York, NY, United States

9:15 a.m. 24

HUMAN GUT MICROBIOME CHANGES ARE ASSOCIATED WITH SINGLE DOSE ALBENDAZOLE TREATMENT OUTCOMES OF HOOKWORM INFECTIONS

Francis A. Appiah-Twum[1], Jewelna E B. Akorli[1], Lydia Okyere[2], Kate Sagoe[1], Irene Owusu Donkor[1], Michael Cappello[3], Michael D. Wilson[1]
[1]Department of Parasitology, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana, [2]Department of Pathobiology, University of Illinois, Urbana, IL, United States, [3]Department of Pediatrics, Yale School of Medicine, Yale University, New Haven, CT, United States

9:30 a.m. 244

BREADTH AND ABUNDANCE OF *PLASMODIUM FALCIPARUM* RIFIN AND STEVOR EXPRESSION IS ASSOCIATED WITH CEREBRAL MALARIA IN MALIAN CHILDREN

Jonathan G. 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[2], James B. Munro[1], Abdoulaye K. Koné[2], Karim Traoré[2], Bouréima Guindo[2], Bourama M. Tangara[2], Amadou Niangaly[2], Issa Diarra[2], Modibo Daou[2], Youssouf Tolo[2], Mody Sissoko[2], Kieran Tebben[1], Matthew B. Laurens[1], Amed Ouattara[1], Bourema Kouriba[2], Ogobara K. Doumbo[2], Shannon Takala-Harrison[1], Christopher V. Plowe[1], Joana C. Silva[1], Mahamadou A. Thera[2], Mark A. Travassos[1]
[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]University of Sciences, Techniques and Technologies, Bamako, Mali

9:45 a.m. 350

IMPROVED ADHERENCE TO TEST, TREAT, AND TRACK (T3) MALARIA STRATEGY AMONG OVER-THE-COUNTER MEDICINE SELLERS (OTCMS) THROUGH INTERVENTIONS IMPLEMENTED IN SELECTED RURAL COMMUNITIES OF FANTEAKWA NORTH DISTRICT, GHANA

Olajoju Temidayo Soniran[1], Benjamin Abuaku[2], Collins Ahorlu[2]
[1]Akanu Ibiam Federal Polytechnic, Unwana, Afikpo, Nigeria, [2]Noguchi Memorial Institute for Medical Research, Accra, Ghana

10 a.m. 356

COMMUNITY EDUCATION, PERCEPTION AND BEHAVIORAL CHANGE ARE THE KEY DETERMINANTS OF MALARIA OUTBREAK AT DOLONIBASTI SUB-CENTRE OF UDALGURI DISTRICT, ASSAM, NORTH-EAST INDIA

Hari Shankar[1], Rahim Ali Ahmed[2], Syed Shah Areeb Hussain[3], Ananta Swargiary[4], Avdhesh Kumar[5], Harpal Singh Suri[2], Kuldeep Singh[3], Afluza Begum[6], Joy Kumar Chakma[1], Neelima Mishra[3], Praveen K. Bharti[3]
[1]Indian Council of Medical Research, New Delhi, India, [2]National Vector Borne Disease Control Programme, Assam, India, [3]ICMR – National Institute of Malaria Research, New Delhi, India, [4]Bodoland University, Assam, India, [5]National Vector Borne Disease Control Programme, New Delhi, India, [6]Bhattadev University, Assam, India

10:15 a.m. 477

IMMUNODIAGNOSTIC POTENTIAL OF CD1A MARKER TO DETECT CUTANEOUS LEISHMANIASIS CAUSED BY LEISHMANIA DONOVANI

Hasna Riyal[1], Nilakshi Samaranayake[1], Priyani Amarathunga[2], Nihal Meedeniya[3], Deepani Munidasa[4], Nadira Karunaweera[1]
[1]Department of Parasitology, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [2]Department of Pathology, Faculty of Medicine, University of Colombo, Colombo 08, Sri Lanka, [3]Lanka Hospital Diagnostics (PVT) LTD, Colombo 05, Sri Lanka, [4]Teaching Hospital, Anuradhapura, Sri Lanka

10:30 a.m. 599

PHAGE SCREENING IDENTIFIED A NOVEL NEMATODE PAN ALLERGEN (NPA) RESPONSIBLE FOR IGE RESPONSES IN HUMAN FILARIAL TROPICAL PULMONARY EOSINOPHILIA (TPE)

Anand Setty Balakrishnan[1], Gnanasekar Munirathinam[1], Samuel Christopher Katru[1], Azadeh Hadadianpour[2], Scott Alan Smith[2], Ramaswamy Kalyanasundaram[1]
[1]University of Illinois at Chicago, College of Medicine, Rockford, IL, United States, [2]Vanderbilt University, Nashville, TN, United States

10:45 a.m. 797

IN-VITRO DETECTION OF DENGUE 1 VIRUS IN HUMAN WHOLE BLOOD, PLASMA, AND SERUM WITH NEAR-INFRARED SPECTROSCOPY

Brendon Goh, Paul Visendi, Silvia Ciocchetta, Ricardo Soares, Wenjun Liu, Maggy Lord
The University of Queensland, Brisbane, Australia

11 a.m. 870

UNDERSTANDING THE NOVEL ENDOSPLENIC LIFECYCLE OF *PLASMODIUM VIVAX*: MECHANISMS OF INTRASPLENIC RETICULOCYTE RETENTION AND ACCUMULATION

Steven Kho[1], Nurjati C. Siregar[2], Putu Ayu I. Wardani[3], Aurelie Fricot[4], David Hardy[5], Leily Trianty[6], Enny Kenangalem[7], Ric N. Price[1], Papa A. Ndour[8], Tsin W. Yeo[9], Rintis Noviyanti[6], Jeanne R. Poespoprodjo[7], Pierre A. Buffet[8], Nicholas M. Anstey[1]
[1]Menzies School of Health Research, Tiwi, Australia, [2]Rumah Sakit Cipto Mangunkusumo, Jakarta, Indonesia, [3]Rumah Sakit Umum Daerah Kabupaten Mimika, Timika, Indonesia, [4]Inserm, Paris, France, [5]Institut Pasteur, Paris, France, [6]Eijkman Institute for Molecular Biology, Jakarta, Indonesia, [7]Papuan Health and Community Development Foundation, Timika, Indonesia, [8]University of Paris, Paris, France, [9]Nanyang Technological University, Singapore, Singapore

11:15 a.m. 1201

HARBORING OF MULTIPLE *PLASMODIUM* SPECIES TRIGGERS SYMPTOMATIC MALARIA IN ENDEMIC POPULATION

Jackline A. Jumah[1], Hoseah Akala[1], Dennis Juma[1], Benjamin Opot[1], Gladys Chemwor[1], Mary Mutahi[2], Raphael Okoth[1], Edwin Wachenje[1], Redemptah Yeda[1], Charles Okudo[1], Agnes Cheruiyot[1], Edwin Kamau[3], Daniel Boudreax[4], Oliver Watson[5], Amanda Roth[3], Ben Andagalu[1]
[1]USAMRD-A-K/KEMRI, Kisumu, Kenya, [2]Welcome Trust Kilifi /KEMRI, Kilifi, Kenya, [3]Walter Reed Army research Institute, California, CA, United States, [4]Walter Reed Army research Institute, Washington, WA, United States, [5]Liver pool London School of Tropical Medicine and Hygiene, Liver pool, United Kingdom

11:30 a.m. 1492

RISK OF MALARIA FOLLOWING A SUB-PATENT INFECTION: A 29-MONTH LONGITUDINAL COHORT STUDY IN A HIGH TRANSMISSION AREA IN WESTERN KENYA

Erica E. Zeno[1], Jessie K. Edwards[1], Elizabeth Freedman[2], Lucy Abel[3], Andrew Obala[4], Judith N. Mangeni[4], Wendy Prudhomme-O'Meara[2], Steve M. Taylor[2]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Duke University, Durham, NC, United States, [3]Moi Teaching and Referral Hospital, Eldoret, Kenya, [4]Moi University, Eldoret, Kenya

11:45 a.m. 1709

AN EXERCISE IN RIGOR: COMPARING FECAL MICROBIOME PERTURBATIONS CAUSED BY ESTABLISHMENT OF CHRONIC SCHISTOSOMA MANSONI INFECTIONS IN MICE AT TWO INDEPENDENT UNIVERSITIES

Mariam A. Mhanna, Lisa M. Shollenberger
Old Dominion University, Norfolk, VA, United States

Noon 1780

RAPID DETECTION OF MYCOBACTERIUM TUBERCULOSIS USING RECOMBINASE POLYMERASE AMPLIFICATION: A PILOT STUDY

Michael Sciaudone[1], Maritza Calderón[2], Jorge Coronel[2], Robert H. Gilman[3], Natalie M. Bowman[1]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Johns Hopkins University, Baltimore, MD, United States

12:15 p.m. 1833

ACTIVATION OF ERK PATHWAY FOLLOWING LEISHMANIA AMAZONENSIS INFECTION IS NECESSARY FOR INTERNALIZATION AND PATHOGENESIS

Umaru Barrie, Dawn M. Wetzel
University of Texas Southwestern Medical Center, Dallas, TX, United States

Young Investigator Award Session F

Convention Center - Room 613/614 (6th Floor)
Sunday, October 30, 9 a.m. - 2 p.m. U.S. Pacific Time Zone

JUDGE

Andrea L Conroy
Indiana University, Indianapolis, IN, United States

Linda Batsah Debrah
KNUST, Kumasi, Ghana

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

Maggy Sikulu
QIMR Berghofer Medical Research Institute, Herston, Australia

Maria Luisa Simoes
London School of Hygiene and Tropical Medicine, United Kingdom

9 a.m. 30

WHY DO HUMANS DIFFER IN ATTRACTIVENESS TO MALARIA MOSQUITOES?

Marieke M. de Swart[1], Niels O. Verhulst[2], Joop J.A. van Loon[3], Leo A.B. Joosten[4], Hauke Smidt[1], Constantianus J.M. Koenraadt[1]
[1]Laboratory of Entomology, Wageningen University, Wageningen, Netherlands, [2]Institute of Parasitology, National Centre for Vector Entomology, Vetsuisse and Medical Faculty, University of Zürich, Zürich, Switzerland, [3]Laboratory of Entomology, Wageningen University and Research, Wageningen, Netherlands, [4]Department of Internal Medicine and Radboud Center for Infectious Diseases, Radboud University Medical Center, Nijmegen, Netherlands

9:15 a.m. 32

DOES HOST PREFERENCE DRIVE OBSERVED FEEDING PATTERNS OF AEDES ALBOPICTUS ACROSS GEOGRAPHIC POPULATIONS?

Kara Fikrig[1], Noah Rose[2], Nathan Burkett-Cadena[3], Basile Kamgang[4], Paul Leisnham[5], Jamie Mangan[1], Alongkot Ponlawat[6], Sarah Rothman[5], Tanise Stenn[3], Carolyn S. McBride[2], Laura C. Harrington[1]
[1]Cornell University, Ithaca, NY, United States, [2]Princeton University, Princeton, NJ, United States, [3]University of Florida, Vero Beach, FL, United States, [4]Centre for Research in Infectious Disease, Yaoundé, Cameroon, [5]University of Maryland, College Park, MD, United States, [6]Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand

9:30 a.m. 175

INVESTIGATING THE ROLE OF TEMPERATURE IN THE TRANSMISSION DYNAMICS OF FLAVIVIRUSES IN COLOMBIA

Andrew C. Glover, Ilaria Dorigatti, Neil M. Ferguson
Imperial College London, London, United Kingdom

9:45 a.m. 579

THE ROLE OF TICKS AND RODENTS IN THE TRANSMISSION AND EXPANSION OF TICK-BORNE FLAVIVIRUSES IN NORTHWESTERN EUROPE

Julian W. Bakker[1], Emily Pascoe[1], Hein Sprong[2], Helen Esser[3], Jeroen Kortekaas[4], Fred de Boer[3], Gorben Pijlman[5], Paul Wichgers Schreur[4], Sander Koenraadt[1]
[1]Wageningen University, Laboratory of Entomology, Wageningen, Netherlands, [2]National Institute of Public Health and the Environment (RIVM), Bilthoven, Netherlands, [3]Wageningen University, Wildlife ecology and conservation, Wageningen, Netherlands, [4]Wageningen Bioveterinary Research, Wageningen, Netherlands, [5]Wageningen University, Laboratory of Virology, Wageningen, Netherlands

10 a.m. 611

ASSOCIATION BETWEEN WASH INDICATORS AND SELF REPORTED CHILDHOOD DEATHS IN RURAL COMMUNITIES OF THE PERUVIAN AMAZON BASIN

Evelyn R. Munayco[1], John M. Nesemann[2], Jeremy D. Keenan[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]University of California, Los Angeles, CA, United States, [3]University of California, San Francisco, CA, United States

10:15 a.m. 1222

DETECTION OF *PLASMODIUM* SP. IN NEOTROPICAL PRIMATES RESCUED FROM WILDLIFE TRAFFICKING IN PERU

Fernando Javier Vilchez Delgado[1], Pamela Rodríguez Reyna[2], A. Patricia Mendoza[3], Marieke Rosenbaum[1], Francesca Falconi Agapito[2], Berónica Infante Garcia[2], Raúl Bello Santa Cruz[4], Dionicia Gamboa[2], Michael Talledo Albújar[2]
[1]Tufts University, North Grafton, MA, United States, [2]Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Neotropical Primate Conservation, Moyobamba, Peru, [4]Estación Biológica Kawsay, Madre de Dios, Peru

10:30 a.m. 1297

NEW FACES OF AN OLD FRIEND: EMERGING NEW ROLES OF ANOPHELES SALIVARY APYRASE IN *PLASMODIUM* INFECTION IN THE MOSQUITO MIDGUT

Zarna Pala[1], Thiago Luiz Alves e Silva[1], Paola Carolina Leon Valenzuela[1], Ines Martin-Martin[1], Benjamin Crews[2], Eizabeth Fischer[2], Eric Calvo[1], Joel Vega-Rodriguez[1]
[1]National Institutes of Health, Rockville, MD, United States, [2]National Institutes of Health, Hamilton, MT, United States

10:45 a.m. 1319

CHARACTERIZING PYRETHROID RESISTANCE IN FIELD-COLLECTED *ANOPHELES GAMBIAE* S.S AND ANOPHELES ARABIENSIS FROM 11 DISTRICTS IN UGANDA

Henry D. Mawejje[1], David D. Weetman[2], Adrienne Epstein[2], Amy D. Lynd[2], Moses R. Kamya[1], Jimmy Opigo[3], Catherine Maiteki-Sebuguzi[3], Jo Lines[4], Grant Dorsey[5], Martin J. Donnelly[2], Sarah G. Staedke[4]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]National Malaria Control Division, Ministry of Health, Kampala, Uganda, [4]London School of Hygiene and Tropical Medicine, London, United Kingdom, [5]University of California, San Francisco, San Francisco, CA, United States

11 a.m. 1346

THE INSECT-SPECIFIC EILAT VIRUS CAUSES SUPERINFECTION EXCLUSION AGAINST WEST NILE VIRUS IN MOSQUITO CELLS

Renuka E. Joseph, Kristine Werling, Jovana Bozic, Sultan Asad, Jason L. Rasgon
The Pennsylvania State University, State College, PA, United States

11:15 a.m. 1359

THE BITING RATES AND PATTERNS OF AE. AEGYPTI: A SYSTEMATIC REVIEW (1970 - 2021)

Mondal H. Zahid[1], Hannah V. Wyk[1], Amy C. Morrison[2], Josefina Coloma[3], Gwenyth O. Lee[1], Varsovia Cevallos[4], Patricio Ponce[4], Joseph Eisenberg[1]
[1]University of Michigan, Ann Arbor, MI, United States, [2]University of California, Davis, Davis, CA, United States, [3]University of California, Berkeley, Berkeley, CA, United States, [4]Instituto Nacional de Investigación en Salud Pública, Quito, Ecuador

11:30 a.m. 1621

ISOLATION OF PATHOGENIC LEPTOSPIRA FROM THE URINE OF SLAUGHTER HOUSE WORKERS, RODENTS AND CATTLE SLAUGHTERED AT THE YANGANDA SLAUGHTER SLAB, JOS NORTH, PLATEAU STATE, NIGERIA

David Abiayi
University of Jos, Jos, Plateau State, Nigeria

11:45 a.m. 1741

SUCCESSIVE BLOOD FEEDING ALTERS DENGUE VIRUS DISSEMINATION IN WOLBACHIA TRANSINFECTED *AEDES AEGYPTI*

Rebecca M. Johnson[1], Mallery I. Breban[2], Nathan D. Grubaugh[2], Douglas E. Brackney[1], Chantal BF Vogels[2]
[1]The Connecticut Agricultural Experiment Station, New Haven, CT, United States, [2]Yale School of Public Health, New Haven, CT, United States

Noon 1778

A SYSTEMATIC REVIEW AND META-ANALYSIS OF STRATEGIES TO QUANTIFY CATASTROPHIC COSTS DUE TO TUBERCULOSIS AND ACHIEVE THE WORLD HEALTH ORGANIZATION TARGET OF THEIR ELIMINATION

Paula P. Carballo-Jimenez[1], Sumona Datta[2], Rubén Aguirre-Ipenza[3], Matthew J. Saunders[1], Luz Quevedo Cruz[1], Carlton A. Evans[1]
[1]Imperial College London, London, United Kingdom, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]Universidad Continental, Lima, Peru

ACCTMTH Clinical Research Award Session

Convention Center - Room 615/616/617 (6th Floor)
Sunday, October 30, 11 a.m. - 3 p.m. U.S. Pacific 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

Miguel Cabada
UTMB, Houston, TX, United States

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

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

Latha Rajan
Tulane, New Orleans, LA, United States

Bryan N Tegomoh
University of California, Berkeley, United States

11:05 a.m. 142

LONGITUDINAL ANALYSIS OF PLATELET INDICES AND RED-CELL DISTRIBUTION WIDTH AND ITS CORRELATION WITH THROMBOCYTOPENIA IN DENGUE PATIENTS: A CASE-CONTROL STUDY

Muhammad Sohaib Asghar[1], Muhammad Junaid Tahir[2], Farah Yasmin[1], Najeebullah Chughtai[3], Syed Jawad Haider Kazmi[3], Rabail Yaseen[1]
[1]Dow University of Health Sciences, Karachi, Pakistan, [2]Lahore General Hospital, Lahore, Pakistan, [3]Liaquat National Hospital and Medical College, Karachi, Pakistan

11:20 p.m. 647

MAPPING ZIKA VIRUS-SPECIFIC NEUTRALIZING IMMUNITY FOR OPTIMAL VACCINE DEVELOPMENT

Kathryn H. Radulovacki[1], Daniel O. Espinoza[1], Yerun Zhu[1], Jaime A. Cardona-Ospina[2], Christina Mehta[1], Oyindamola Yusuf[1], Vincent Dussupt[3], Gina C. Donofrio[3], Nadine Rouphael[1], Alfonso J. Rodriguez-Morales[2], Srilatha Edupuganti[1], Kayvon Modjarrad[3], Mark J. Mulligan[4], Aravinda M. de Silva[5], Shelly J. Krebs[3], Matthew H. Collins[1]
[1]Emory University School of Medicine, Atlanta, GA, United States, [2]Fundación Universitaria Autónoma de las Américas, Pereira, Colombia, [3]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [4]NYU Langone Vaccine Center, New York, NY, United States, [5]University of North Carolina Chapel Hill, Chapel Hill, NC, United States

11:35 p.m. 1083

PREVALENCE, INTENSITY OF SOIL TRANSMITTED HELMINTH AMONG INDIVIDUAL LIVING IN RURAL AREA IN SOUTH OF GABON

Moutongo Mouandza Reinne, Mourou Jean Romain, Matotou Sibi Roger, Ekomi Bernadette, Mawili-Mboumba Denise Patricia, Bouyou Akotet Marielle Karine
University of Health Sciences, Libreville, Gabon

11:50 p.m. 821

SARS-COV-2 AND MALARIA INTERACTIONS IN PREGNANCY AND THEIR IMPACT ON BIRTH OUTCOMES IN UGANDA

Karen Blake Jacobson[1], Patience Nayebare[2], Abel Kakuru[2], Jimmy Kizza[2], Miriam Aguti[2], Felistas Nankya[2], Jessica Briggs[3], Saki Takahashi[3], Bryan Greenhouse[3], Isabel Rodriguez-Barraquer[3], Joaniter I. Nankabirwa[2], Gloria Cuu[2], Stephanie L. Gaw[3], Philip J. Rosenthal[3], Moses R. Kamya[2], Isaac Ssewanyana[2], Grant Dorsey[3], Prasanna Jagannathan[1]
[1]Stanford School of Medicine, Stanford, CA, United States, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]University of California, San Francisco School of Medicine, San Francisco, CA, United States

12:05 p.m.
BREAK

12:15 p.m. 1349

CO-DETECTION OF *PLASMODIUM FALCIPARUM* IN CHILDREN HOSPITALIZED WITH DENGUE FEVER IN THE DOMINICAN REPUBLIC

Zheyi Teoh[1], Brittany Simpson[1], Rafael Mena[2], Kathryn McElhinney[1], Thad Howard[1], Russell Ware[1], Elizabeth Schlaudecker[1]
[1]Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, [2]Centro de Obstetricia y Ginecologia, Santo Domingo, Dominican Republic

12:30 p.m. 1621

ISOLATION OF PATHOGENIC LEPTOSPIRA FROM THE URINE OF SLAUGHTER HOUSE WORKERS, RODENTS AND CATTLE SLAUGHTERED AT THE YANGANDA SLAUGHTER SLAB, JOS NORTH, PLATEAU STATE, NIGERIA

David Abiayi
University of Jos, Jos, Plateau State, Nigeria

12:45 p.m. 441

ETIOLOGICAL AGENTS OF DIARRHEAL DISEASES DETECTED AMONG UNDER-5 DEATHS IN MANHIÇA AND QUELIMANE DISTRICTS, MOZAMBIQUE IN THE CHAMPS NETWORK, 2017-2021

Percina Chirinda[1], Eva Dora João[1], Filomena Manjate[1], Avertino Benedito[1], Rita Mabunda[1], Nelio Nobela[1], Marcelino Garrine[1], António Sitoe[1], Elísio Xerinda[1], Dianna Blau[2], Quique Bassat[3], Inácio Mandomando[1]
[1]Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique, [2]Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]ISGlobal, Hospital Clínic - Universitat de Barcelona;, Barcelona, Spain

1 p.m. 628

METAGENOMIC NEXT-GENERATION SEQUENCING OF NASOPHARYNGEAL SWABS IN ACUTE FEBRILE ILLNESS IN CAMBODIA

Christina Yek[1], Sreyngim Lay[2], Sophana Chea[2], Jennifer A. Bohl[3], Mengheng Oum[2], Sokna Ly[2], Ratanak Sath[2], Vida Ahyong[4], Cristina M. Tato[4], Heng Seng[5], Sovann Ly[5], Chanthap Lon[2], Jessica E. Manning[1]
[1]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, [2]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, Phnom Penh, Cambodia, [3]Vaccine Research Center, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [4]Chan Zuckerberg Biohub, San Francisco, CA, United States, [5]Department of Communicable Disease, Ministry of Health, Phnom Penh, Cambodia

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

Convention Center - Room 201 (2nd Floor)
Sunday, October 30, 11 a.m. - Noon U.S. Pacific Time Zone

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

Convention Center - Room 2A (2nd Floor)
Sunday, October 30, Noon - 1:30 p.m.

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.

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

Convention Center - Room 201 (2nd Floor)
Sunday, October 30, Noon - 2 p.m. U.S. Pacific Time Zone

Point-of-Entry: First-Time Attendee Orientation

Convention Center - Room 618/619/620 (6th Floor)
Sunday, October 30, 1 p.m. - 2 p.m. U.S. Pacific 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.

SPEAKER

Desiree LaBeaud
Stanford University, Stanford, CA, United States

Workshop

WomenLift Health

Convention Center - Tahoma 1 (Conference Center, 8th/Pike - 3rd Floor)
Sunday, October 30, 1 p.m. – 3 p.m. U.S. Pacific Time Zone

Effectively Navigating Organizational Politics Organizational politics is a sometimes controversial and hotly debated topic, and it can be particularly difficult for women leaders, especially since they are often denied the space, coaching and ownership to explore such challenges without facing significant risks. This often leaves women leaders with a limited set of choices — embrace it as a necessarily evil, engage half-heartedly or refuse to play the game entirely — despite the likely negative impact on their careers. Research has found that politically savvy leaders have better career prospects, are seen as more promotable and are less likely to have derailed careers. Leaders who stumble through political realities — or avoid or ignore them — are missing opportunities, connections and resources. While the term political skill, or political savvy, generally elicits more negative than positive perceptions, it isn't inherently a bad thing. Politics are a neutral and natural part of everyday life in organizations, and a skilled leader understands that it is a necessary strategic choice. This session will help the audience reflect on and potentially reframe their relationship with organizational politics. This session is designed to help you: • Understand organizational politics and examine why they exist and how they function (knowledge and mindset) • Assess your political environment and gain awareness of your own feelings (mindset) • Increase your political savvy and practice four key skills to better navigate organizational politics (skillset)

Workshop

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

Convention Center - Tahoma 2 (Conference Center, 8th/Pike - 3rd Floor)
Sunday, October 30, 2 p.m. – 4 p.m. U.S. Pacific Time Zone

PLOS Neglected Tropical Diseases and PLOS Pathogens present a writing workshop to equip and support early-career researchers and researchers 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 Editors-in-Chief from both journals.

Workshop

Gender and Malaria Community of Practice: Working Session to Co-Create an Advocacy Agenda

Sheraton - Grand Ballroom D (2nd Floor)
Sunday, October 30, 2 p.m. – 4 p.m. U.S. Pacific Time Zone

Supported by the Bill & Melinda Gates Foundation, the global Gender and Malaria Community of Practice is working to co-create, catalyse and develop a cohesive, strategic and measurable approach that integrates gender into malaria work and identifies gender-transformative opportunities to advance gender equity and the fight against malaria. This interactive workshop is an opportunity for anyone interested in this work to engage and help build a joint advocacy agenda. The workshop objectives include: 1) Present and validate the work the malaria and gender CoP has created via its co-creative process towards developing a shared advocacy agenda on a gendered approach to accelerate malaria eradication. 2) Use this opportunity to bring together existing and new stakeholders at the local, regional and global levels who are engaged in malaria eradication and gender equality work to expand the membership of the Global Malaria and Gender Community of Practice and further provide input to the advocacy agenda.

Press Room

Convention Center - Room 309 (3rd Floor)
Sunday, October 30, 2 p.m. - 5 p.m. U.S. Pacific Time Zone

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

Convention Center - Room 201 (2nd Floor)
Sunday, October 30, 2 p.m. - 3:30 p.m. U.S. Pacific Time Zone

Young Investigator Award Committee Meeting

Convention Center - Room 602/603/604 (6th Floor)
Sunday, October 30, 2 p.m. - 4 p.m. U.S. Pacific Time Zone

Student Reception

Convention Center - Room 3AB (3rd Floor)
Sunday, October 30, 2:30 p.m. - 3:30 p.m. U.S. Pacific 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

Convention Center - Room 615/616/617 (6th Floor)
Sunday, October 30, 3 p.m. - 4 p.m. U.S. Pacific Time Zone

American Committee of Medical Entomology (ACME) Council Meeting

Convention Center - Room 203 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m. U.S. Pacific Time Zone

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

Convention Center - Room 212 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m. U.S. Pacific Time Zone

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

Convention Center - Room 201 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m. U.S. Pacific Time Zone

ASTMH Committee on Global Health (ACGH) Council Meeting

Convention Center - Room 214 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m. U.S. Pacific Time Zone

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

Convention Center - Room 213 (2nd Floor)
Sunday, October 30, 3:30 p.m. - 5:30 p.m. U.S. Pacific Time Zone

Plenary Session 1

Plenary Session I: Opening Plenary Session and Awards Program

Convention Center - Room 6ABC (6th Floor)
Sunday, October 30, 5:30 p.m. - 7 p.m. U.S. Pacific Time Zone

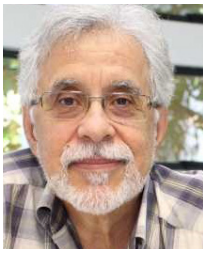
This session does not carry CME credit.

CHAIR
Daniel G. Bausch
FIND, Geneva, Switzerland

5:30 p.m.
SCIENTIFIC PROGRAM CHAIR WELCOME
Christine Petersen
University of Iowa, Iowa City, IA, United States

5:40 p.m.
WELCOMING REMARKS
Elhadj As Sy, Chair of the Board
Kofi Annan Foundation, Dakar, Senegal

5:45 p.m.
KEYNOTE ADDRESS:
POVERTY, INEQUALITIES, SOCIAL JUSTICE AND HEALTH: NOTES FROM BRAZIL



Maurício L. Barreto, MD, PhD, MPH
Emeritus University Professor, Universidade Federal da Bahia

Senior Investigator of Fundação Oswaldo Cruz (Fiocruz)
Salvador, Bahia, Brazil

An Emeritus University Professor at Universidade Federal da Bahia in Brazil and a Senior Investigator of Fundação Oswaldo Cruz (Fiocruz), Dr. Barreto's research in epidemiology and collective health covers different topics, with a great focus on the social and environmental determinants of health, health inequalities and the impact of social interventions on health. Currently, his major research program is around The 100 Million Brazilian Cohort investigating social and environmental determinants of health, particularly the impact of poverty reduction policies on health, using the linkage of large administrative Brazilian databases. Dr. Barreto has published more than 600 peer-reviewed papers in scientific journals; taught, supervised and mentored undergraduate, Masters, docs and post-docs throughout his life; and has been the founder and director of the Center of Data and Knowledge Integration for Health (cidacs) and deputy director of the National Health and Care Research (NIHR) Global Health Research Unit on Social and Environmental Determinants of Health

Inequalities. He is an elected Fellow of the Brazilian Academy of Sciences and of the World Academy of Sciences, and an Honorary Professor at the London School of Hygiene and Tropical Medicine. During the COVID-19 Pandemic, he founded and continues to coordinate the CoVida Network, is a member of the Scientific Committee advising the Governors of the Northeast Region of Brazil, and is a member of the COVID-19 Specialist Group of the Inter-Academic Panel: The Global Network of Science Academies.

6:15 p.m.
AWARDS PROGRAM
Daniel G. Bausch
FIND, Geneva, Switzerland

Recognition of ASTMH/BMGF Annual Meeting Travel Awards

Recognition of President's Challenge Travel Awards

Recognition of Burroughs Wellcome Fund - ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

Recognition of Young Investigator Awards

Recognition of ASTMH Fellowship and Grant Recipients

Recognition of 2022 Fellows of ASTMH (FASTMH)

Recognition of ASTMH Distinguished International Fellows (FASTMH)

Susan Charman
Monash University, Australia

Philippe Guerin
Infectious Diseases Data Observatory, United Kingdom

Alex Loukas
James Cook University, Australia

Don Mathanga
Kamuzu University of Health Sciences, Malawi

Daouda Ndiaye
Cheikh Anta Diop University, Senegal

John Reeder
World Health Organization, Switzerland

Maria Carla Saleh
Institut Pasteur, France

Maria Shikanai Yasuda
Universidad de Sao Paulo, Brazil

2022 ALAN J. MAGILL FELLOW
Fitsum Tadesse
Armauer Hansen Research Institute (AHRI), Addis Ababa, Ethiopia

Subgroup Medals and Awards

HARRY HOOGSTRAAL MEDAL (ACME)
Ed Cupp
Auburn University, Owensboro, KY, United States

WILLIAM TRAGER AWARD FOR BASIC PARASITOLOGY (ACMCIP)
Laura Knoll
University of Wisconsin-Madison, Madison, WI, United States

MARTIN S. WOLFE MENTORING AWARD (ACCTMTH)
Michele Barry
Stanford University, Stanford, CA, United States

RICHARD-TAYLOR AWARD (ACAV)
Duane Gubler
Duke-National University of Singapore Medical School, United States

Society-Level Medals and Awards

COMMUNICATIONS AWARD
"How Rahima came to hold a special place in smallpox history - and help ensure its end"

Alissa Escarce and Dil Afrose Jahan
NPR

BAILEY K. ASHFORD MEDAL
Subash Babu
NIH-NIRT-ICER, Chennai, India

Mohammod Jobayer Chisti
icddr,b, Dhaka, Bangladesh

Robert O. Opoka
College of Health Sciences, Makerere University, Kampala, Uganda

Silvia Portugal
Max Planck Institute for Infection Biology, Berlin, Germany

CLARA SOUTHMAYD LUDLOW MEDAL
Chikwe Ihekweazu
WHO Hub for Pandemic and Epidemic Intelligence, Berlin, Germany

Anna Maria Mandalakas
Baylor College of Medicine, Houston, Texas, United States

Bernard Pecoul
Drugs for Neglected Diseases Initiative (DNDi), Geneva, Switzerland

BEN KEAN MEDAL
William M. Stauffer
University of Minnesota Department of Medicine, Minneapolis, Minnesota, United States

WALTER REED MEDAL
William A. Petri, Jr.
University of Virginia School of Medicine, Charlottesville, Virginia, United States

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Sunday, October 30, 7 p.m. - 9:30 p.m. U.S. Pacific Time Zone

Opening Reception

Convention Center - Hall 4BC (4th Floor)
Sunday, October 30, 7 p.m. - 9:30 p.m. U.S. Pacific Time Zone

Monday, October 31

Registration

Convention Center - Atrium Lobby (4th Floor)
Monday, October 31, 7 a.m. - 5 p.m. U.S. Pacific Time Zone

Speaker Ready Room

Convention Center - Room 310 (3rd Floor)
Monday, October 31, 7 a.m. - 5 p.m. U.S. Pacific Time Zone

Meeting Sign-Up Rooms

Convention Center – Rooms 213 and 214 (2nd Floor)
Monday, October 31, 7 a.m. - 7 p.m. U.S. Pacific Time Zone

TropStop - Student/Trainee Lounge

Convention Center - Room 3A (3rd Floor)
Monday, October 31, 7 a.m. - 5 p.m. U.S. Pacific 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.

Diploma Course Directors Meeting

Convention Center - Room 202 (2nd Floor)
Monday, October 31, 7 a.m. - 8 a.m. U.S. Pacific Time Zone

Trainee Membership Committee

Convention Center - Room 209 (2nd Floor)
Monday, October 31, 7 a.m. - 8 a.m. U.S. Pacific Time Zone

International Membership Committee Meeting

Convention Center - Room 203 (2nd Floor)
Monday, October 31, 7 a.m. - 8 a.m. U.S. Pacific Time Zone

AJTMH Editorial Board Meeting

Convention Center - Room 204 (2nd Floor)
Monday, October 31, 7 a.m. - 8 a.m. U.S. Pacific Time Zone

Press Room

Convention Center - Room 309 (3rd Floor)
Monday, October 31, 7:45 a.m. - 5:30 p.m. U.S. Pacific Time Zone

Scientific Session 2

Malaria: New Developments in Antimalarial Resistance and Chemoprevention

Convention Center - Room 6AB (6th Floor)

Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Celia Florimond
Pasteur Institute in French Guiana, Cayenne, French Guiana

Christian Nsanzabana
Swiss Tropical and Public Health Institute, Basel, Switzerland

8 a.m. 1

PREDICTING THE EMERGENCE OF PIPERAQUINE-RESISTANT *PLASMODIUM FALCIPARUM* MALARIA IN AFRICA

Laura M. Hagenah, Kyra A. Schindler, Jennifer L. Small-Saunders, Kathryn Wicht, David A. Fidock
Columbia University Irving Medical Center, New York, NY, United States

(ACMCIP Abstract)

8:15 a.m. 2

CLASSICAL GENETICS IDENTIFIES MULTIPLE GENETIC LOCI INFLUENCING RESPONSE TO ANTIMALARIAL DRUG COMBINATIONS

Mackenzie A.C. Sievert[1], Richard T. Eastman[2], Katrina Button-Simons[1], Lisa A. Checkley[1], Zione Cassady[1], Sudhir Kumar[3], Xue Li[4], Marina McDew-White[4], Zina Itkin[2], Stefan H. Kappe[3], Anton Simeonov[2], François H. Nosten[5], Ian H. Cheeseman[4], Timothy J.C. Anderson[4], Ashley M. Vaughan[3], Michael T. Ferdig[1]
[1]University of Notre Dame, South Bend, IN, United States, [2]National Center for Advancing Translational Sciences, Rockville, MD, United States, [3]Seattle Children's Research Institute, Seattle, WA, United States, [4]Texas Biomedical Research Institute, San Antonio, TX, United States, [5]Shoklo Malaria Research Unit, Mahidol University, Mae Sot, Thailand

(ACMCIP Abstract)

8:30 a.m. 3

DECREASED EX VIVO SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* TO BOTH DIHYDROARTEMISININ AND LUMEFANTRINE IN NORTHERN UGANDA

Patrick K. Tumwebaze[1], Melissa D. Conrad[2], Martin Okitwi[1], Stephen Orena[1], Oswald Byaruhanga[1], Thomas Katairo[1], Jennifer Legac[2], David Giesbrecht[3], Sawyer Smith[3], Frida G. Ceja[4], Samuel L. Nsobya[1], Jeff Bailey[3], Roland A. Cooper[4], Philip J. Rosenthal[2]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]University of California, San Francisco, San Francisco, CA, United States, [3]Brown University, Providence, RI, United States, [4]Dominican University of California, San Rafael, CA, United States

(ACMCIP Abstract)

8:45 a.m. 4

IDENTIFICATION OF PIPERAQUINE RESISTANCE IN SOUTH AMERICA HIGHLIGHTING AN EVOLUTION OF MOLECULAR MARKERS CONTRASTING WITH THE SOUTHEAST ASIAN SITUATION

Celia Florimond[1], Franck de Laval[2], Angela M. Early[3], Swaélie Sauthier[1], Yassamine Lazrek[1], Stephane Pelleau[1], Wuelton M.[4], Maxime Agranier[1], Nicolas Taudon[5], François Morin[2], Magda Magris[6], Marcus V. G. Lacerda[7], Giselle M. R. Viana[1], Sócrates Herrera[8], Malti R. Adhin[9], Marcelo U. Ferreira[10], Charles J. Woodrow[11], Ghulam R. Awab[12], Horace Cox[13], Maria-Paz Ade[14], Emilie Mosnier[15], Félix Djossou[16], Daniel E. Neafsey[3], Pascal Ringwald[17], Lise Musset[1]
[1]Pasteur Institute in French Guiana, Cayenne, French Guiana, [2]Service de Santé des Armées, Marseille, France, [3]Broad Institute, Cambridge, MA, United States, [4]Universidade do Estado do Amazonas, Manaus, Brazil, [5]Institut de recherche biomédicale des armées, Brétigny-sur-Orge, France, [6]Amazonic Center for Research and Control of Tropical Diseases "Simón Bolívar", Puerto Ayacucho, Bolivarian Republic of Venezuela, [7]Instituto Leônidas & Maria Deane, Manaus, Brazil, [8]Malaria Vaccine and Drug Development Center, Cali, Colombia, [9]Anton de Kom Universiteit van Suriname, Paramaribo, Suriname, [10]University of São Paulo, São Paulo, Brazil, [11]University of Oxford, Oxford, United Kingdom, [12]Ministry of Public Health, Kabul, Afghanistan, [13]Ministry of Health, Georgetown, Guyana, [14]Pan American Health Organization/World Health Organization, Washington, DC, United States, [15]Aix Marseille University, Marseille, France, [16]Cayenne General Hospital, Cayenne, French Guiana, [17]World Health Organization, Geneva, Switzerland

9 a.m. 5

EVALUATION OF THE IMPLEMENTATION AND EFFECTIVENESS OF INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA USING DIHYDROARTEMISININ-PIPERAQUINE ON REDUCING MALARIA BURDEN IN SCHOOL-AGED CHILDREN IN TANZANIA: AN IMPLEMENTATION RESEARCH CLUSTER RANDOMIZED TRIAL

Geofrey Makenga[1], Bruno P. Mmbando[1], Misago D. Seth[1], Vito Baraka[1], Daniel P. Challe[1], Filbert Fransis[1], Athanas Mhina[1], Daniel T. Minja[1], Mercy G. Chiduo[1], Celine I. Mandara[1], Edwin Lihelukа[1], Samwel Gesase[1], Method D. Segeja[1], George Mtove[1], Mathias Kamugisha[1], Abdallah Lusasi[2], Frank Chacky[2], Anna David[2], Sumaiyya Thawer[3], Ally Mohamed[2], Samwel Lazaro[2], Fabrizio Molteni[3], Alex Nkayamba[4], Jean-Pierre Van geertruyden[5], John P. A. Lusingu[1]
[1]National Institute for Medical Research, Tanga, United Republic of Tanzania, [2]National Malaria Control Programme, Dodoma, United Republic of Tanzania, [3]Swiss Tropical and Public Health Institute, Basel, Switzerland, [4]Tanzania Medicines and Medical Devices Authority, Dar es Salaam, United Republic of Tanzania, [5]Global Health Institute, University of Antwerp, Antwerp, Belgium

9:15 a.m. 6

THE POTENTIAL IMPACT OF POINT-OF-CARE RESISTANCE DIAGNOSTICS ON SPREAD OF ANTIMALARIAL RESISTANCE WITHIN A MULTI-DRUG POPULATION TREATMENT STRATEGY

Lucy Okell[1], Oliver Watson[2], Darlington Akogo[3], Emmanuel Adabor[3], Gina Cuomo-Dannenburg[1], Kenny Malpartida-Cardenas[1], Jamal-Deen Abdulai[3], Jesus Rodriguez Manzano[1], Xavier Palmer[4], Issah Samori[1], Robert Verity[1], Pantelis Georgiou[1], Aubrey Cunnington[1]
[1]Imperial College, London, United Kingdom, [2]LSHTM, London, United Kingdom, [3]minoHealth, Accra, Ghana, [4]minoHealth, Accra, United Kingdom

9:30 a.m. 7

CONTRASTING DRUG POLICY INTERVENTIONS TO DELAY THE FIXATION OF 561H ARTEMISININ RESISTANT *PLASMODIUM FALCIPARUM* IN RWANDA

Robert Zupko, Haojun Li, Tran Dang Nguyen, Thu Nguyen-Anh Tran, Kien Trung Tran, Maciej F. Boni
Pennsylvania State University, University Park, PA, United States

Symposium 3

Structure-Based Development of a Second-Generation Circumsporozoite Protein (CSP) Malaria Vaccine

Convention Center - Room 6C (6th Floor)

Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Malaria parasite has a complex multi stage life-cycle and vaccines are being developed against unique antigens on each of these stages. Despite decades of effort, only vaccines that target the liver invasive sporozoite stage have demonstrated sterilizing protection

in vaccinated humans. RTS,S/AS01, the most advanced malaria vaccine contains a truncated form of the Circumsporozoite protein (CSP) containing the canonical NANP repeats and the C-terminal region adjuvanted with a potent adjuvant AS01 (GlaxoSmithKline Vaccines). Phase III trials with RTS,S reveal a range of protection between 30-50% against clinical malaria and the level of protection wanes rapidly after the first year. An improved version of RTS,S vaccine, R21 (Oxford University), has replicated the efficacy of RTS,S over 1 year but the efficacy data from larger Phase 2/3 trial are awaited. Two whole sporozoite vaccines PfSPZ and Pf-SPZ-Cvac (Sanaria Inc.) were shown to be highly protective in trials of Malaria naïve subjects following CHMI, but high efficacy is more limited in field trials in Africa. Human monoclonal antibodies (mAbs) isolated from protected individuals have recently revealed new highly vulnerable sites on *P. falciparum* CSP molecule. These include junctional epitopes encompassing the central (NPNA, NPDP and NPNV) repeats as well as on the C-terminal region. Proof-of-concept passive transfer studies using mAbs against two different junctional epitopes have demonstrated high level protection in humans following CHMI. These data and pre-clinical data have confirmed these new sites to elicit protective responses *in vivo* in humans. This has led a number of investigators to design second-generation vaccines that can recapitulate the inhibitory effects of these mAbs by active vaccination and broaden the protective antibody response compared to RTS,S and R21 type vaccines. In this direction a nearly full-length CSP vaccine candidate, FMP013 (Walter Reed Army Institute of Research), was recently tested in a CHMI trial. The session will discuss the unique structural features of inhibitory CSP epitopes, B-cell maturation pathways that allow long-lasting induction of highly specific and avid antibodies. Finally preclinical data on candidate epitope-based CSP vaccines will be discussed.

CHAIR

Sheetij Dutta
Walter Reed Army Institute of Research, Silver Spring, MD, United States

Robert Seder
NIAID, NIH, Bethesda, MD, United States

8 a.m.
INTRODUCTION

8:10 a.m.
STRUCTURAL INSIGHTS INTO CSP/MAB INTERACTIONS

Marie Pancera
Vaccine and Infectious Disease Division, Fred Hutch, Seattle, WA, United States

8:25 a.m.
STRUCTURAL CHARACTERIZATION OF PROTECTIVE EPITOPES IN *P. FALCIPARUM* CSP

Ian Wilson
Department of Integrative Structural and Computational Biology, Scripps Institute, La Jolla, CA, United States

8:40 a.m.
CD4+ T CELLS SHAPE B CELL RESPONSES TO PROTECTIVE EPITOPES IN CSP

Ian Cockburn
The John Curtin School of Medical Research, ANU, Canberra, Australia

8:55 a.m.
IMMUNE-BROADENED VS. IMMUNE-FOCUSED CSP VACCINES

Sheetij Dutta
Walter Reed Army Insitute of Research, Silver Spring, MD, United States

9:10 a.m.
DEVELOPMENT OF JUNCTIONAL EPITOPE-BASED VACCINES

Azza Idris
Vaccine Research Center, NIH, Bethesda, MD, United States

Scientific Session 4

Global Health: Maternal, Newborn and Child Health

Convention Center - Room 6E (6th Floor)
Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Richard Reithinger
RTI International, Washington, DC, United States

Catherine Oldenburg
University of California, San Francisco, San Francisco, CA, United States

8 a.m.
PRESENTATION BY BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP RECIPIENT

8

MATERNAL CHILD HEALTH VULNERABILITY DURING THE COVID-19 PANDEMIC IN LUSAKA, ZAMBIA

Joelle Rosser[1], Christabel Phiri[2], Duncan Chanda[2]
[1]Stanford University, Stanford, CA, United States, [2]University of Zambia School of Medicine, Lusaka, Zambia

8:15 a.m.

9

IMPACT OF COMMON GENETIC VARIANTS ON CYTOKINE RESPONSE HETEROGENEITY UPON BCG VACCINATION IN INFANTS FROM GUINEA-BISSAU

Collins K. Boahen[1], Simmone J.c.f.m. Moorlag[1], Kristoffer Jarlov Jensen[2], Vasiliki Matzaraki[1], Stephanie Fanucchi[3], Ivan Monteiro[4], Charlotte De Bree[1], Ezio T. Fok[5], Leo A.b. Joosten[1], Musa Mhlanga[5], Peter Aaby[4], Christine Stabell Benn[6], Mihai G. Netea[1], Vinod Kumar[1]
[1]Department of Internal Medicine and Radboud Center for Infectious Diseases (RCI), Radboud University Medical Center, Nijmegen, Netherlands, [2]Center for Clinical Research and Prevention, Frederiksberg and Bispebjerg Hospital, Frederiksberg, Denmark, [3]Lemba Therapeutics, Nijmegen, Nijmegen, Netherlands, [4]Bandim Health Project, Indepth Network, Bissau, Guinea-Bissau, [5]Epigenomics & Single Cell Biophysics Group, Department of Cell Biology FNWI, Radboud Institute for Molecular Life Sciences (RIMLS), Nijmegen, Netherlands, [6]Danish Institute for Advanced Study, University of Southern Denmark, Odense, Denmark

8:30 a.m.

10

TRADITIONAL UVULECTOMY: PREVALENCE AND ASSOCIATED FACTORS IN A PREGNANCY BIRTH COHORT IN NORTH SHEWA ZONE, ETHIOPIA

Bezawit M. Hunegnaw[1], Yahya Mohammed[2], Frederick G. B. Goddard[3], Mesfin Zeleke[2], Chalachew Bekele[2], Grace J. Chan[4], Delayehu Bekele[5]
[1]Department of Pediatrics and Child Health, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [2]BIRHAN HDSS, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [3]Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [4]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, [5]Department of Obstetrics and Gynecology, St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia

8:45 a.m.

11

ASSOCIATIONS BETWEEN BRAIN VOLUMETRY IN CHILDHOOD AND EARLY CHILDHOOD STUNTING

Beena Koshy[1], Samuel Berkins[1], Roshan Livingstone[1], Anitha Jasper[1], Arpan Banerjee[2], Rebecca Scharf[3], Venkata Raghava Mohan[1], Sushil John[1], Jaya Prakash Muliyil[1], Gagandeep Kang[1]
[1]Christian Medical College, Vellore, Tamil Nadu, India, Vellore, India, [2]National Brain Research Centre, Gurgaon, India, [3]University of Virginia Children's Hospital, Virginia, VA, United States

9 a.m.

12

CHARACTERIZING THE BURDEN OF HYALINE MEMBRANE DISEASE AMONG DECEASED INFANTS ENROLLED IN THE KENYA CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE NETWORK (CHAMPS) PROGRAM

Harun Odhiambo Owuor[1], Sammy Khagayi[1], Aggrey Igunza[1], Preston Izulla[2], John Wagai[2], Sarah Ngere[1], Dickens Onyango[3], Elizabeth Oele[1], Richard Omore[1], Victor Akelo[4]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Adroitz consultants limited, Nairobi, Kenya, [3]Kisumu County Health Department, Kisumu, Kenya, [4]Centers for Disease Control and Prevention, Kisumu, Kenya

9:15 a.m.

13

FACTORS ASSOCIATED WITH DISCHARGE AGAINST MEDICAL ADVICE AMONG CHILDREN TREATED FOR SUSPECTED OR PROVEN INFECTIONS AT UGANDAN HOSPITALS

Rishika Bose[1], Clare Komugisha[2], Stefanie Novakowski[3], Stephen Businge[4], Abner Tagoola[5], J Mark Ansermino[3], Niranjan Kissoon[6], Jerome Kabakyenga[7], Elias Kumbakumba[8], Nathan Kenya-Mugisha[2], Matthew O. Wiens[1]
[1]Centre for International Child Health, BC Children's Hospital Research Institute, Vancouver, BC, Canada, [2]WALIMU, Kampala, Uganda, [3]Department of Anesthesiology, Pharmacology & Therapeutics, University of British Columbia, Vancouver, BC, Canada, [4]Holy Innocents Children's Hospital, Mbarara, Uganda, [5]Department of Pediatrics, Jinja Regional Referral Hospital, Jinja, Uganda, [6]Department of Pediatrics, University of British Columbia, Vancouver, BC, Canada, [7]Maternal Newborn and Child Health Institute, Mbarara University of Science and Technology, Mbarara, Uganda, [8]Department of Paediatrics and Child Health, Mbarara University of Science and Technology, Mbarara, Uganda

9:30 a.m.

14

CLINICAL DECISION SUPPORT ALGORITHM ADHERENCE AT A PEDIATRIC TELEMEDICINE AND MEDICATION DELIVERY SERVICE IN A LOW-RESOURCE SETTING

Molly Klarman[1], Katelyn E. Flaherty[1], Xiaofei Chi[1], Youseline Cajsuma[1], Lerby Exantus[2], Jason Frieson[3], Valery M. Beau de Rochars[1], Chantale Baril[2], Torben Becker[1], Matthew J. Gurka[1], Eric J. Nelson[1]
[1]Univeristy of Florida, Gainesville, FL, United States, [2]Université d'État d'Haiti-Faculté de Médecine et de Pharmacie, Port-au-Prince, Haiti, [3]Trek Medics International, Washington, DC, United States

Scientific Session 5

Schistosomiasis I: Immunology, Pathology, Molecular Biology, Diagnostics, and Treatment

Convention Center - Room 602/603/604 (6th Floor)
Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Meagan Amelia Barry
The Warren Alpert Medical School of Brown University, Providence, RI, United States

Amy Sturt
Veterans Affairs Palo Alto Health Care System, Palo Alto, CA, United States

8 a.m.

15

WHOLE PROTEOME DIFFERENTIAL SCREENING IDENTIFIES HELMINTH DEFENSE MOLECULE AS NOVEL SCHISTOSOMIASIS JAPONICA VACCINE CANDIDATE

Amanda E. Ruiz[1], Sunthorn Pond-Tor[1], Ronald Stuart[1], Mario Jiz[2], Blanca Jarilla[2], Jennifer Friedman[1], Hai Wei Wu[1], Jonathan D. Kurtis[1]
[1]Brown University, Providence, RI, United States, [2]Research Institute of Tropical Medicine, Manila, Philippines

(ACMCIP Abstract)

8:15 a.m.

16

MATERNAL SCHISTOSOMIASIS AND ALTERATIONS IN BREAST MILK COMPOSITION

Meagan Amelia Barry[1], Zorimel Vargas[2], Veronica Tallo[3], Marianne J. Sagliba[3], Amabelle J. Amoylen[3], Jennifer F. Friedman[1], Emily A. McDonald[1]
[1]The Warren Alpert Medical School of Brown University, Providence, RI, United States, [2]The Center for International Health Reserach, Rhode Island Hospital, Providence, RI, United States, [3]Research Institute of Tropical Medicine, Manila, Philippines

8:30 a.m.

17

COMPARATIVE GENOMICS AND GENETIC MAPPING BUILT ON A NEW SNAIL MODEL PROVIDE INSIGHTS INTO SCHISTOSOME-RESISTANCE IN THE SNAIL BIOMPHALARIA GLABRATA

Lijing Bu[1], Daibin Zhong[2], Lijun Lu[1], Eric S. Loker[1], Guiyun Yan[2], **Si-Ming Zhang**[1]
[1]University of New Mexico, Albuquerque, NM, United States, [2]University of California Irvine, Irvine, CA, United States

8:45 a.m.

18

INTERLEUKIN-4-INDUCING PRINCIPLE FROM SCHISTOSOMA MANSONIEGGS IS IMPORTANT IN BLADDER CANCER: DNA RECOGNITION AND BINDING SPECIFICITY OF THE S. HAEMATOBIUM HOMOLOGUE

Derick Osakunor[1], Trevor Siggers[2], Olivia Lamanna[1], Kenji Ishida[1], Heather Hook[2], Michael Hsieh[1]
[1]Children's National Hospital, Washington, DC, United States, [2]Boston University, Boston, MA, United States

(ACMCIP Abstract)

9 a.m.

19

HARNESSING THE POTENTIAL OF ANTI-GLYCAN ANTIBODIES INDUCED IN SCHISTOSOMIASIS FOR DEVELOPMENT OF HIGHLY SENSITIVE AND SPECIFIC SEROLOGICAL TOOLS

Anna O. Kildemoes[1], Tom Veldhuizen[1], Lisette van Lieshout[1], Daniel Camprubí-Ferrer[2], Jose Munoz[2], Leo Visser[1], Sammy M. Njenga[3], Meta Roestenberg[1], Angela van Diepen[1], Cornelis H. Hokke[1]
[1]Leiden University Medical Center, Leiden, Netherlands, [2]Barcelona Institute for Global Health, Barcelona, Spain, [3]Kenya Medical Research Institute, Nairobi, Kenya

9:15 a.m.

20

SOIL-TRANSMITTED HELMINTHIASIS IS NO LONGER A PUBLIC HEALTH PROBLEM IN BURKINA FASO

Clarrise Bougouma[1], Hamado Ouedraogo[1], Christophe Nassa[1], Fanny Yago-Wienne[2], Dieudonné Naré[2], Micheline Kalkoundo/Ouedraogo[2], **Lucien Mano**[2], Yaobi Zhang[3], Benoit Dembele[4], Steven D. Reid[3], Angela Weaver[3], Anna Phillips[5], Jennifer Magalong[5]
[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, Regional Office for Africa, Dakar, Senegal, [5]Family Health International 360, Washington, DC, United States

9:30 a.m. 21

CIRCULATING ANODIC ANTIGEN (CAA) AS A DIAGNOSTIC MARKER FOR MEASURING TREATMENT SUCCESS IN UROGENITAL SCHISTOSOMIASIS

Yabo J. Honkpehedji[1], Jacob Gerstenberg[1], Jean-Claude Dejon-Agobe[1], Raphael Rakotozandrindrainy[2], Rivo Rakotoarivelo[3], Mandranto Rasamoelina[4], Elisa Sicuri[5], Daniela Fusco[6], Paul Corstjens[7], Pytsje T. Hoekstra[8], Andrea Kreidenweiss[9], Govert J. van Dam[8], Ayola A. Adegnika[1]

[1]Centre de Recherche Medical de Lambarene, Lambarene, Gabon, [2]Université d'Antananarivo, Antananarivo, Madagascar, [3]Université de Fianarantsoa, Fianarantsoa, Madagascar, [4]Centre d'Infectiologie Charles Mérieux, Antananarivo, Madagascar, [5]Fundación Privada Instituto de Salud Global Barcelona, Barcelona, Spain, [6]Bernhard-Nocht-Institut für Tropenmedizin, Hamburg, Germany, [7]Department of Cell and Chemical Biology, Leiden University Medical Center, Leiden, Netherlands, [8]Department of Parasitology, Leiden University Medical Center, Leiden, Netherlands, [9]Institut für Tropenmedizin, Universität Tübingen, Tübingen, Germany

Scientific Session 6

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Biology and Interventions

Convention Center - Room 605/610 (6th Floor)

Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Kami Kim
University of South Florida, Tampa, FL, United States

David Serre
University of Maryland, Baltimore, MD, United States

8 a.m. 1842

EXPLORING THE ROLE OF THE GUT MICROBIOTA IN TISSUE REPAIR DURING INTESTINAL HELMINTH INFECTION

Garrie Peng[1], Gabriel Russell[1], Susan Westfall[1], Cynthia Faubert[2], Elena F. Verdu[3], Siegfried Hapfelmeier[4], Irah King[1]

[1]Meakins-Christie Laboratories, Department of Medicine, McGill University Health Centre, Montreal, QC, Canada, [2]McGill Interdisciplinary Initiative in Infection and Immunity, Montreal, QC, Canada, [3]Farncombe Institute, Division of Gastroenterology, Department of Medicine, McMaster University, Hamilton, ON, Canada, [4]Institute for Infectious Diseases, University of Bern, Bern, Switzerland

8:15 a.m. 22

COMMUNITY-WIDE DEWORMING LEADS TO A LOWER BURDEN OF STH INFECTION IN SCHOOL-AGED CHILDREN COMPARED WITH SCHOOL-BASED DEWORMING ALONE: RESULTS FROM THE COMMUNITY-DEWORMING AGAINST SOIL-TRANSMITTED HELMINTHS (CODE-STH) TRIAL

Clare E. F. Dyer[1], Dinh Ng Nguyen[2], Naomi E. Clarke[1], Sze Fui Hii[3], H. M. P. Dilrukshi Herath[3], Handan Wand[1], Luc E. Coffeng[4], Darren J. Gray[5], Archie C. A. Clements[6], Roy M. Anderson[7], John M. Kaldor[1], Rebecca J. Traub[3], Susana Vaz Nery[1]

[1]University of New South Wales, The Kirby Institute, Sydney, Australia, [2]Tay Nguyen University, Faculty of Animal Sciences and Veterinary Medicine, Buôn Ma Thuột, Viet Nam, [3]The University of Melbourne, Faculty of Veterinary and Agricultural Sciences, Melbourne, Australia, [4]Erasmus MC University Medical Center, Rotterdam, Netherlands, [5]Australian National University, Research School of Population Health, Canberra, Australia, [6]Curtin University, Faculty of Health Sciences, Perth, Australia, [7]Imperial College London, Department of Infectious Disease Epidemiology, School of Public Health, London, United Kingdom

8:30 a.m. 23

GENETIC DIFFERENCES AMONG HUMAN TRICHURIS POPULATIONS WITH DIFFERING RESPONSES TO ALBENDAZOLE-IVERMECTIN COMBINATION TREATMENT

Abhinaya Venkatesan[1], Rebecca Chen[1], Brenna Reimer[1], Somphou Sayasone[2], Said Ali[3], Jean Coulibaly[4], Chandni Patel[5], Sophie Welsche[5], Ladina Keller[5], Eveline Hürlimann[5], Jennifer Keiser[5], John Gilleard[1]

[1]University of Calgary, Calgary, AB, Canada, [2]Lao Tropical and Public Health Institute, Vientaine, Lao People's Democratic Republic, [3]Public Health Laboratory Ivo de Carneri, Zanzibar, United Republic of Tanzania, [4]Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Abidjan, Côte D'Ivoire, [5]Swiss Tropical and Public Health Institute, Basel, Switzerland

(ACMCIP Abstract)

8:45 a.m. 24

HUMAN GUT MICROBIOME CHANGES ARE ASSOCIATED WITH SINGLE DOSE ALBENDAZOLE TREATMENT OUTCOMES OF HOOKWORM INFECTIONS

Francis A. Appiah-Twum[1], Jewelna E B. Akorli[1], Lydia Okyere[2], Kate Sagoe[1], Irene Owusu Donkor[1], Michael Cappello[3], Michael D. Wilson[1]

[1]Department of Parasitology, Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana, [2]Department of Pathobiology, University of Illinois, Urbana, IL, United States, [3]Department of Pediatrics, Yale School of Medicine, Yale University, New Haven, CT, United States

(ACMCIP Abstract)

9 a.m. 25

THE BENZIMIDAZOLES OXFENDAZOLE AND FLUBENDAZOLE ELIMINATE ADULT FILARIAE OF LITOMOSOIDES SIGMODONTIS IN AN IMMUNE SYSTEM-DEPENDENT MANNER

Frederic Risch, Johanna F. Scheunemann, Julia J. Reichwald, Benjamin Lenz, Alexandra Ehrens, Marianne Koschel, Achim Hoerauf, **Marc P. Hübner**
University Hospital Bonn, Bonn, Germany

9:15 a.m. 26

PROCESS DEVELOPMENT OF SJ-P80: A LOW-COST TRANSMISSION-BLOCKING VETERINARY VACCINE FOR ASIATIC SCHISTOSOMIASIS

Adebayo J. Molehin[1], Sean A. Gray[2], Darrick Carter[2], Afzal A. Siddiqui[3]

[1]Midwestern University, Glendale, AZ, United States, [2]PAI Life Sciences Inc, Seattle, WA, United States, [3]Texas Tech University Health Sciences Center, Lubbock, TX, United States

(ACMCIP Abstract)

9:30 a.m. 27

IPSE, A SCHISTOSOME IMMUNOREGULATORY PROTEIN, PREVENTS SEPSIS

Ioannis Koutroulis, Wade O'Brien, **Michael Hsieh**
Children's National Hospital, Washington, DC, United States

(ACMCIP Abstract)

Symposium 7

Progress Towards Developing Gene Drive Mosquitoes in the Fight Against Malaria

Convention Center - Room 606/607 (6th Floor)

Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

The development of gene drive mosquitoes is progressing steadily, showing great potential as a novel and innovative tool for malaria control. This symposium brings together experts in gene drive

science, stakeholder engagement and public health. Our aim is to present the current state of progress of the technology but also to highlight other important aspects of the pathway to deployment that are crucial to the preparation for field trials of gene drive mosquitoes. Recently it has been demonstrated that a strain of gene drive mosquitoes can successfully suppress a population of mosquitoes in a large cage trial. However, for gene drive mosquitoes to expand beyond the lab to become a viable vector control tool there are many factors that must be considered, such as design and planning of field trials, capacity building in Africa where permission to trial the technology will first be sought, and very importantly how to engage and seek agreement from communities. This symposium is co-organized by the Pan-African Mosquito Control Association who has been committed over the last years to enabling African researchers to play an important part in this research and to create a dialogue within the vector control community about the promises and challenges of this technology. The symposium includes speakers from the two most advanced projects in gene drive research, presenting the latest scientific advances in the field of gene drive Anopheles mosquitoes. Attendees will also see the results of the first field release of genetically modified (sterile, non-gene drive) mosquitoes in Africa, a stage in the phased-pathway approach for building capacity for GM vector control tools in this region. The session will share developments of a population modification strategy and progress in the conduct of an ecologically confined field trial. The symposium will explore capacity building further through the lens of the Pan-African Mosquito Control Association, putting a sharp focus on engagement with potential beneficiaries of the technology in Africa. As gene drive is an area-wide vector control intervention, bringing a novel technology to rural Africa, this raises new challenges for stakeholder engagement. The second speaker will explore what this means for stakeholder engagement practitioners seeking to obtain agreement for gene drive research activities.

CHAIR

Samantha M. O'Loughlin
Imperial College London, Ascot, United Kingdom

Charles Mbogo
KEMRI Wellcome Trust Res Programme, Nairobi, Kenya

8 a.m.
INTRODUCTION

8:10 a.m.
SUCCESSFUL GENE DRIVE SUPPRESSION OF MOSQUITO POPULATIONS IN LARGE CAGES

Alekos Simoni
Polo d'Innovazione Genomica Genetica e Biologia, Terni, Italy

8:25 a.m.
STAKEHOLDER ENGAGEMENT IN AFRICA; AN AGREEMENT MODEL FOR GENE DRIVE

Naima Sykes
Imperial College London, Ascot, United Kingdom

8:40 a.m.
RESULTS OF THE FIRST FIELD RELEASE OF STERILE GENETICALLY MODIFIED MOSQUITOES IN AFRICA

Abdoulaye Diabate
Institut de Recherche en Sciences de la Sante (IRSS), Bobo Dioulasso, Burkina Faso

8:55 a.m.
IMPORTANCE OF CAPACITY BUILDING FOR NOVEL CONTROL METHODS FOR AFRICAN SCIENTISTS AND POLICYMAKERS

Emma Orefuwa
Pan-African Mosquito Control Association, Nairobi, Kenya

9:10 a.m.
UCMI - PROGRESS IN THE CONDUCT OF AN ECOLOGICALLY CONFINED FIELD TRIAL

Gregory Lanzaro
University of California Davis, Davis, CA, United States

Scientific Session 8

Mosquitoes-Vector Biology-Epidemiology I

Convention Center - Room 608/609 (6th Floor)
Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Rex B. Mbewe
Malawi University of Business and Applied Sciences, Blantyre, Malawi

Catherine Walton
University of Manchester, Manchester, United Kingdom

Monday October 31

8 a.m. 28

ECO-CLIMATIC FACTORS SHAPING THE DISTRIBUTION OF ANOPHELES COLUZZII AND AN. GAMBIAE MALARIA VECTORS AND OF THEIR PUTATIVE HYBRIDS ACROSS THEIR SYMPATRIC RANGE

Beniamino Caputo[1], Leonardo Frosi[1], Chiara Virgillito[1], Carlo Maria De Marco[1], Verena Pichler[1], Federico Filipponi[2], **Alessandra della Torre**[1]
[1]University of Rome Sapienza, Rome, Italy, [2]Institute for Environmental Protection and Research (ISPRA), Rome, Italy

8:15 a.m. 29

LOCAL THERMAL ADAPTATION IN MOSQUITO POPULATIONS AND THE POTENTIAL IMPLICATIONS FOR IMPACTS OF CLIMATE CHANGE

Nina L. Dennington[1], Matthew B. Thomas[2], Marissa Grossman[1]
[1]The Pennsylvania State University, University Park, PA, United States, [2]The University of York, York, United Kingdom

8:30 a.m. 30

WHY DO HUMANS DIFFER IN ATTRACTIVENESS TO MALARIA MOSQUITOES?

Marieke M. de Swart[1], Niels O. Verhulst[2], Joop J.A. van Loon[3], Leo A.B. Joosten[4], Hauke Smidt[1], Constantianus J.M. Koenraadt[1]
[1]Laboratory of Entomology, Wageningen University, Wageningen, Netherlands, [2]Institute of Parasitology, National Centre for Vector Entomology, Vetsuisse and Medical Faculty, University of Zürich, Zürich, Switzerland, [3]Laboratory of Entomology, Wageningen University and Research, Wageningen, Netherlands, [4]Department of Internal Medicine and Radboud Center for Infectious Diseases, Radboud University Medical Center, Nijmegen, Netherlands

8:45 a.m.

31

GENOTYPING OF ANOPHELES MOSQUITO BLOOD MEALS REVEALS NONRANDOM HUMAN HOST SELECTION: IMPLICATIONS FOR *PLASMODIUM FALCIPARUM* TRANSMISSION, MALAWI

Rex B. Mbewe[1], John B. Keven[2], Charles Mangani[3], Mark Wilson[4], Themba Mzilahowa[5], Don Mathanga[5], Clarissa Valim[6], Miriam K. Laufer[7], Edward D. Walker[8], Lauren M. Cohee[7]
[1]Malawi University of Business and Applied Sciences, Blantyre, Malawi, [2]University of California, Irvine, CA, United States, [3]Kamuzu University of Health Sciences, Blantyre, Malawi, [4]University of Michigan, Ann Arbor, MI, United States, [5]Kamuzu University of Health Sciences, Malaria Alert Center, Blantyre, Malawi, [6]Boston University School of Public Health, Boston, MA, United States, [7]University of Maryland School of Medicine, Baltimore, MD, United States, [8]Michigan State University, East Lansing, MI, United States

9 a.m.

32

DOES HOST PREFERENCE DRIVE OBSERVED FEEDING PATTERNS OF AEDES ALBOPICTUS ACROSS GEOGRAPHIC POPULATIONS?

Kara Fikrig[1], Noah Rose[2], Nathan Burkett-Cadena[3], Basile Kamgang[4], Paul Leisnham[5], Jamie Mangan[1], Alongkot Ponlawat[6], Sarah Rothman[5], Tanise Stenn[3], Carolyn S. McBride[2], Laura C. Harrington[1]
[1]Cornell University, Ithaca, NY, United States, [2]Princeton University, Princeton, NJ, United States, [3]University of Florida, Vero Beach, FL, United States, [4]Centre for Research in Infectious Disease, Yaoundé, Cameroon, [5]University of Maryland, College Park, MD, United States, [6]Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand

9:15 a.m.

33

EXPANDED GEOGRAPHIC DISTRIBUTION AND HOST PREFERENCE OF ANOPHELES GIBBINSI (AN. SPECIES 6) IN NCHELENGE DISTRICT, ZAMBIA

Mary E. Gebhardt[1], Rachel S. Krizek[1], Maureen Coetzee[2], Lizette L. Koekemoer[2], Yael Dahan-Moss[2], David Mbewe[3], James Sichivula Lupiya[3], Mbanga Muleba[3], Jennifer C. Stevenson[4], William J. Moss[1], Douglas E. Norris[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]University of the Witwatersrand, Johannesburg, South Africa, [3]Tropical Diseases Research Centre, Ndola, Zambia, [4]Macha Research Trust, Choma, Zambia

9:30 a.m.

34

ANOPHELES LEUCOSPHYRUS GROUP PHYLOGENY REVEALS ORIGINS OF THE MAJOR FOREST MALARIA VECTORS IN SOUTHEAST ASIA

Upasana Shyamsunder Singh[1], Katy Morgan[1], Pradya Somboon[2], Thaung Hlaing[3], Aparup Das[4], Jane M. Carlton[5], **Catherine Walton**[1]
[1]University of manchester, Manchester, United Kingdom, [2]Chiang Mai University, Chiang Mai, Thailand, [3]Department of Medical Research, Yangon, Myanmar, [4]ICMR National Institute of Research in Tribal Health, Jabalpur, India, [5]New York University, New York, NY, United States

Scientific Session 9

Filariasis – Clinical, Immunology, Diagnostics

Convention Center - Room 611/612 (6th Floor)
Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Janina M. Kuehlwein
Institute of Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany

Bruce Rosa
Washington University in St Louis School of Medicine, St. Louis, MO, United States

8 a.m.

35

MOXIDECTIN COMBINATION THERAPY FOR LYMPHATIC FILARIASIS IS SUPERIOR TO IVERMECTIN PLUS ALBENDAZOLE FOR CLEARANCE OF MICROFILAREMIA AT 12 MONTHS POST-TREATMENT

Catherine M. Bjerum[1], Benjamin Koudou[2], Pascal Gabo[3], Allassane Ouattara[2], Peter U. Fischer[4], Gary J. Weil[4], Christopher L. King[1], Philip J. Budge[4]
[1]Case Western Reserve University, Cleveland, OH, United States, [2]Centre Suisse de Recherches Scientifiques, Abidjan, Côte D'Ivoire, [3]Centre Hospitalier Régional d'Agboville, Agboville, Côte D'Ivoire, [4]Washington University in St. Louis, St. Louis, MO, United States

8:15 a.m.

36

PARTIAL MACROFILARICIDAL ACTIVITY OF IVERMECTIN, DIETHYLCARBAMAZINE AND ALBENDAZOLE COMBINATION TREATMENT FOR HUMAN ONCHOCERCIASIS

Nicholas Opoku[1], Kerstin Fischer[2], Bettina Dubben[3], Charles Goss[4], Mahmood A. Seidu[5], Nicole Fetcho[2], Achim Hoerauf[3], Christopher L. King[6], Gary J. Weil[2], **Peter U. Fischer**[2]
[1]University of Healthand Allied Sciences, Saint Louis, Ghana, [2]Washington University School of Medicine, Saint Louis, MO, United States, [3]IMMIP, University of Bonn, Bonn, Germany, [4]Biostatistics Division, Washington University School of Medicine, Saint Louis, MO, United States, [5]University of Ghana, Accra, Ghana, [6]Case Western Reserve University, Cleveland, OH, United States

8:30 a.m.

37

SAFETY AND PHARMACOKINETICS OF A SINGLE ORAL DOSE OF MOXIDECTIN IN SUBJECTS AGED 4 TO 17 YEARS WITH (OR AT RISK OF) ONCHOCERCIASIS, TO IDENTIFY AN OPTIMAL DOSE FOR TREATMENT OF CHILDREN 4 TO 11 YEARS: RESULTS OF AN OPEN LABEL STUDY

Nicholas O. Opoku[1], Felix Doe[2], Melinda Lowe[3], Kashyap Patel[4], Craig Rayner[4], Annette C. Kuesel[5], Sally Kinrade[3]
[1]School of Public Health University of Health and Allied Sciences (UHAS), Hohoe, Ghana, [2]Hohoe Municipal Hospital, Hohoe, Ghana, [3]Medicines Development for Global Health, Southbank, Australia, [4]Certara, Princeton, NJ, United States, [5]World Health Organization Special Programme for Research and Training in Tropical Diseases (TDR), Geneva, Switzerland

8:45 a.m.

38

AUTOMATED ANALYSIS OF HISTOLOGICAL SLIDES FROM ONCHOCERCA NODULES USING ARTIFICIAL INTELLIGENCE (AI)

Janina M. Kuehlwein[1], Daniel A. Kuehlwein[2], Julia Poplawska[3], Bettina Dubben[1], Kerstin Fischer[4], Marcel Bergmann[5], Marlene Rickmers[6], Matthias Schmid[6], Alexander Y. Debrah[7], Sabine Specht[8], Achim Hoerauf[1], Ute Klarmann-Schulz[1]
[1]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Bonn, Germany, [2]Capgemini, Cologne, Germany, [3]Capgemini, Wrocław, Poland, [4]Washington University School of Medicine, St. Louis, MO, United States, [5]Capgemini, Hamburg, Germany, [6]Institute for Medical Biometry, Informatics and Epidemiology, University Hospital Bonn, Bonn, Germany, [7]Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, [8]Drugs for Neglected Diseases Initiative, Geneva, Switzerland

9 a.m.

39

19 ONCHOCERCIASIS BIOMARKER CANDIDATES IDENTIFIED DIRECTLY IN HUMAN SERUM AND URINE

Bruce A. Rosa, Kurt Curtis, Petra Erdmann Gilmore, John Martin, Qiang Zhang, Robert Sprung, Gary J. Weil, R. Reid Townsend, Peter U. Fischer, Makedonka Mitreva
Washington University in St Louis School of Medicine, St. Louis, MO, United States

9:15 a.m. 40

CHARACTERIZING VIRAL-SPECIFIC B CELL RESPONSES IN HUMAN FILARIAL INFECTION USING VIRSCAN, A NOVEL SEROSURVEY TOOL

Gayatri Sanku[1], Limin Wang[2], Xin Wei Wang[3], Thomas Nutman[1]
[1]National Institutes of Health, Laboratory of Parasitic Disease, Bethesda, MD, United States, [2]National Institute of Health, Bethesda, MD, United States, [3]National Institutes of Health, Bethesda, MD, United States

9:30 a.m. 41

TOWARDS TELOMERE TO TELOMERE FILARIAL GENOMES

Sasisekhar Bennuru, Thomas B. Nutman
NIAID/NIH, Bethesda, MD, United States

Symposium 10

Novel Biomarkers of Disease Progression and Treatment Efficacy in Chagas Disease

Convention Center - Room 613/614 (6th Floor)
Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Chagas disease affects approximately six to seven million people worldwide, including an increasing number of migrants living in regions outside of Latin America, yet it remains one of the most neglected of the neglected tropical diseases. Biomarkers of progression and treatment efficacy are paramount for researchers assessing the efficacy of novel Chagas disease therapeutics given the long indeterminate phase of the disease and variable late-stage sequelae. Biomarkers are also essential for clinicians aiming to inform duration of anti-trypanosomal therapies, which carry substantial risks of toxicity to patients. Moreover, biomarkers may be helpful for patients seeking to know their prognosis and whether they have been "cured" following treatment. Currently, serial conventional serologic tests are used in clinical practice to assess treatment response, but seroreversion may take years to occur after treatment, limiting research and clinical utility. In an attempt to address this need, a broad range of biomarkers has been proposed for Chagas disease, including those related to parasite and recombinant proteins as well as host biochemical, thrombotic, and immunologic markers; none of these have been incorporated into standard clinical practice. This symposium will focus on recent progress on biomarkers of Chagas disease made possible by new methodologies and advanced analytics. The speakers will present novel approaches within the field of Chagas disease biomarker development, including new parasite antigens, glycan-based biomarkers, markers based on metabolomics, and immune correlates of cure. The session will discuss promising future directions within this field and debate how various candidate biomarkers should be validated for clinical applications.

CHAIR

Alyse Wheelock
Boston Medical Center, Boston, MA, United States

Rick L. Tarleton
University of Georgia, Athens, GA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
DETECTION OF PARASITE BIOMARKERS OF CHAGAS DISEASE IN BLOOD FOR PRECLINICAL AND CLINICAL EVALUATION OF TREATMENT EFFICACY

Alain Debrabant
Division of Emerging and Transfusion Transmitted Diseases Center for Biologics Evaluation and Research Food and Drug Administration, Silver Spring, MD, United States

8:25 a.m.
GLYCAN-BASED BIOMARKERS FOR EARLY ASSESSMENT OF OUTCOMES OF CHAGAS DISEASE CHEMOTHERAPY

Igor C. Almeida
University of Texas at El Paso, El Paso, TX, United States

8:40 a.m.
NEW METABOLIC SIGNATURE FOR CHAGAS DISEASE REVEALS SEX STEROID PERTURBATION IN HUMANS AND MICE

Momar Ndao
McGill University, Montreal, QC, Canada

8:55 a.m.
IMMUNE CORRELATES OF SPONTANEOUS AND BENZNIDAZOLE-INDUCED CURE IN CHRONIC CHAGAS DISEASE

Susana A. Laucella
National Council for Scientific and Technical Research (CONICET), Buenos Aires, Argentina

Symposium 11

The Innovative Use of Electronic Data Capture (EDC) Technology during Mass Drug Administration for Neglected Tropical Disease Program Implementation

Convention Center - Room 615/616/617 (6th Floor)
Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Neglected Tropical Disease (NTD) Programs operate to eliminate or control diseases such as Lymphatic Filariasis, Trachoma, Onchocerciasis, Schistosomiasis (SCH) and Soil Transmitted Helminths (STH), in endemic countries around the world. Such programs collect routine monitoring and outcome data in relation to their Mass Drug Administration (MDA) campaigns and Disease Specific Assessments (DSAs) to assist with programmatic decision-making, to inform program progress, and to report to international donors and funders for accountability. The use of EDC over paper-based collection modes is well-established for DSAs and has obvious advantages: a) the ability to code questionnaire flows, skips, and filters into devices, b) the ability to directly enter data during fieldwork and to eliminate entry of paper-based results after fieldwork at central office, c) the mitigation and rectification of obvious coherence and consistency errors in near real time during fieldwork, and d) the facilitation of near real time data transmission via Internet to a central office. Although EDC is broadly used in the collection of data for DSAs, the use of EDC for MDAs is less commonly utilized. This session explores a diverse set of attempts to utilize EDC technology during NTD MDA implementation in resource-limited settings in Sub-Saharan Africa. The first talk discusses the results of a BMGF Grand

Challenge where the project designed and built five geo-referenced electronic tally counter devices for testing in rural Ghana during an LF MDA in 2021 as a proof of concept. The project successfully demonstrated that the device could improve data quality and reduce time taken for the results to reach decision-makers in areas where smartphones were not a feasible tool. The second talk provides the results of using EDC during MDA as part of the Benin government's broad digitization initiative. The use of EDC (Smartphones) during the last two onchocerciasis MDA campaigns (2020 and 2021) in Benin was helpful in improving data quality and timely data reporting. The third talk discusses near real-time monitoring of MDA coverage process in Nigeria through a system where HMIS staff enter aggregated community level data directly into the DHIS2, so district supervisors can monitor coverage, check for data errors, and track sub-district drug stock on the system at the community level as the campaign progresses. The final talk discusses the use of EDC for biometric registration as a means of exploring individual compliance to SCH/STH mass drug administration in Ethiopia. This technology enables the analysis of MDA information to discern whether it is the same individuals that repeatedly are absent at MDA to better understand the characteristics of those who did not participate in the MDA.

CHAIR

Diana M. Stukel
FHI 360, Washington, DC, United States

8 a.m.
INTRODUCTION

8:05 a.m.
ELECTRONIC DATA COLLECTION FOR MDAS WITHOUT CELL PHONES: RESULTS OF A PROOF OF CONCEPT FOR A NEW AND SIMPLE GEO-REFERENCED TALLY COUNTER DEVICE

Caleb Parker
FHI 360, Washington, DC, United States

8:30 a.m.
THE OV MDA DIGITIZATION EXPERIENCE IN BENIN: BENEFITS AND CHALLENGES

Nissou Ines Dossa
FHI 360, Cotonou, Benin

8:55 a.m.
REAL-TIME MASS DRUG ADMINISTRATION REPORTING USING DHIS2 IN NIGERIA: THE SYSTEM AND NATIONAL SCALE-UP PLANS

Perpetua Amodu-Agbi
NTD Unit, Federal Ministry of Health, Abuja, Nigeria

9:20 a.m.
USE OF EDC FOR BIOMETRIC REGISTRATION FOR SCH/ STH MASS DRUG ADMINISTRATION IN ETHIOPIA FOR THE GESHIYARO PROJECT

Ewnetu Firdawek Liyew
Ethiopian Public Health Institute, Addis Ababa, Ethiopia

Symposium 12

ANC Surveillance: An Old Platform for New Uses?

Convention Center - Room 618/619/620 (6th Floor)
Monday, October 31, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Nationally representative household (HH) surveys are typically used to monitor disease prevalence and coverage indicators, such as insecticide treated net (ITN) use, vaccine uptake, and care seeking behaviors, while routine health information systems are used to measure disease burden and monitor the trends of symptomatic illness. However, HH surveys are expensive and conducted periodically, limiting their utility for ongoing program adjustments, and routine systems don't collect data on intervention coverage. Population surveillance via antenatal care (ANC) can build on the strengths and minimize the limitations of these 2 complementary surveillance approaches. Coverage of ANC is high globally, with ~75% of women making at least 1 visit in most sub-Saharan African countries. Thus, pregnant women attending first ANC (ANC1) are likely representative of all pregnant women. Further, the relatively large number of facilities offering ANC provide a rich data source, which can provide granular, locally relevant data for a variety of different infectious disease programs. However, as pregnant women represent only about 5% of the population, and disease risk may be different among pregnant vs non-pregnant women, it is important to understand if and how prevalence and intervention coverage from ANC correlate with prevalence and coverage among the general population. While HIV programs have used ANC surveillance estimates, and malaria parasitaemia prevalence among ANC-attending pregnant women has been shown to correlate well with the prevalence among children <5, it remains to be shown whether coverage of HH interventions is similar among households with and without pregnant women. In addition, pandemic disease surveillance could be considered if the risk factors for pregnant women are similar to that of their communities. If pregnant women attending ANC1 prove a reliable sentinel population, the programmatic implications are significant – ranging from reducing the need for expensive household surveys to informing program managers of micro-level coverage trends, better enabling data-based decisions to adapt implementation and resource application. Diverse sub-Saharan African countries will share pilot ANC surveillance data highlighting the correlation between data collected from pregnant women attending ANC and HH survey data for parasitemia and coverage of malaria control interventions. Feasibility of implementing ANC surveillance will be discussed across endemic and pandemic diseases. A concluding discussion will allow for an open exchange of ideas and experiences between the presenters and others interesting in piloting this strategy in their countries.

CHAIR

Julie R. Gutman
Centers for Disease Control and Prevention, Atlanta, GA, United States

Molly Robertson
Global Fund, Geneva, Switzerland

8 a.m.
INTRODUCTION

8:10 a.m.
ANC SURVEILLANCE: CAN IT TELL US ABOUT MORE THAN PREGNANT WOMEN?
Julie Gutman
Centers for Disease Control and Prevention, Atlanta, GA, United States

8:20 a.m.
EVALUATING ANC SURVEILLANCE AS A SENTINEL POPULATION FOR ASSESSING PARASITEMIA PREVALENCE AND COVERAGE OF MALARIA CONTROL INTERVENTIONS
Siaka Debe
Centre National de Recherche et de Formation sur le Paludisme (CNRFP), Ouagadougou, Burkina Faso

8:40 a.m.
COVID-19 SEROPREVALENCE AND COVID-19 VACCINE UPTAKE AMONG PREGNANT WOMEN IN MALAWI
Lyson Tenthani
Centers for International Programs, Inc., ICAP Malawi, Lilongwe, Malawi

9 a.m.
APPROACHES AND CONSIDERATIONS TO USING THE ROUTINE PMTCT PROGRAM PLATFORM TO CONDUCT HIV SURVEILLANCE
Nora Springstubb
Centers for Disease Control and Prevention, Atlanta, GA, United States

9:15 a.m.
APPROACHES AND CONSIDERATIONS TO USING THE ROUTINE PMTCT PROGRAM PLATFORM TO CONDUCT HIV SURVEILLANCE
Thananda Naiwatanakul
Centers for Disease Control and Prevention, Bangkok, Thailand

Career Chats (Via Zoom)

Monday, October 31, 9 a.m. - 10 a.m. U.S. Pacific Time Zone

Attend the Career Chats sessions to meet professionals in the tropical medicine field who will share their career stories and strategies to help you along your professional path, as well as discuss topical subjects in the field of global health.

This session is limited to those who pre-registered for this event.

CHAIR
Hanna Ehrlich
University of California Davis, Davis, CA, United States

Bronwyn MacInnis
Broad Institute, Cambridge, MA, United States

Oyebola Oyesola
National Institutes of Health, Bethesda, MD, United States

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Monday, October 31, 9:30 a.m. - 10:30 a.m. U.S. Pacific Time Zone

Coffee Break

Convention Center - Hall 4BC (4th Floor)
Monday, October 31, 9:45 a.m. - 10:15 a.m. U.S. Pacific Time Zone

Poster Session A Set-Up

Convention Center - Room 4A (4th Floor)
Monday, October 31, 9:45 a.m. - 10:15 a.m. U.S. Pacific Time Zone

Poster Session A Viewing

Convention Center - Room 4A (4th Floor)
Monday, October 31, 10:15 a.m. – 11 a.m. U.S. Pacific Time Zone

Plenary Session 13

Plenary Session II: Charles Franklin Craig Lecture

Convention Center - Room 6AB (6th Floor)
Monday, October 31, 10:15 a.m. - 11 a.m. U.S. Pacific Time Zone

The Charles Franklin Craig Lecture is an honor bestowed on a distinguished worker in the field of tropical medicine. Charles Franklin Craig (1872-1950) received his MD from Yale University and entered the Army Medical Corps in 1898, as a pathologist and bacteriologist. After holding a variety of far-flung assignments early in his career, in 1909 he began a long association with the Army Medical School in Washington DC, rising to become Professor and Commandant of the School. He wrote ten books on malaria, parasitology and infectious diseases, and he discovered and described *Plasmodium ovale*. In 1931 he retired from the Army to become Professor of Tropical Medicine and head of the Department at Tulane School of Medicine. He was President of the American Society of Tropical Medicine (1915), Editor-in-Chief of the *American Journal of Tropical Medicine* (1927-1946) and Editor of the *Journal of the National Malaria Society* (1942-1944).

CHAIR
Albert I. Ko
Yale School of Public Health, New Haven, CT, United States

10:15 a.m.
INTRODUCTION
Albert I. Ko
Yale School of Public Health, New Haven, CT, United States

10:30 a.m.
CHARLES FRANKLIN CRAIG LECTURE

Patricia J. Garcia, MD, MPH, PhD
Professor
Universidad Peruana Cayetano Heredia
Lima, Peru

Dr. Patty J. García, is a Professor at the School of Public Health at Cayetano Heredia University (UPCH) in Lima-Peru and member of the US National Academy of Medicine. She is the former Minister of Health of Peru, former Dean of the School of Public Health at UPCH, and former Chief of the Peruvian National Institute of Health (INS). She is recognized

as a leader in Global Health. She is affiliate Professor of the Department of Global Health, at University of Washington and of the School of Public Health at Tulane University. She has been a member of the Lancet Commission for the Education of health professionals for the 21st century; member of the Lancet Commission on Diagnostics: No treatment without accurate diagnosis and she is chairing a new Lancet Commission on Cancer and Health Systems. She is actively involved in research and training in Global health, Implementation research, quality in health services, Reproductive health, STI/HIV, HPV, diagnostics, and medical informatics. Dr. Garcia has been a member of the advisory board of CEPI (Coalition for Epidemic Preparedness Innovations). During the pandemic she has been leading clinical trials in Peru as SOLIDARITY, Convalescent plasma and ivermectin use, and has been chairing the advising governmental committee on innovations to fight the pandemic. She participates in several global advisory boards. Dr. Garcia is the Chair of the Strategic and Technical Advisory Group on Disease Elimination (STAG-D) from the Pan American Health Organization (PAHO), Member of the Strategic and Technical Advisory Committee on HIV, viral hepatitis and sexually transmitted infections (STAC-HHS)-WHO, and Member of the WHO Strategic Advisory Group of Experts on *In vitro* Diagnostics from WHO (SAGE IVD). Going forward, Dr. Garcia is interested in continuing with research in the areas of her core interests, promoting community participation in research, equity and involving the most vulnerable populations. She is interested in continuing working in moving research into policy in Peru and Latin America and sharing lessons learned beyond the Latin American region.

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Monday, October 31, 11 a.m. - 12:45 p.m. U.S. Pacific Time Zone

Digital Education Committee Meeting

Convention Center - Room 204 (2nd Floor)
Monday, October 31, 11 a.m. - 12:30 p.m. U.S. Pacific Time Zone

Membership Committee Meeting

Convention Center - Room 212 (2nd Floor)
Monday, October 31, 11:15 a.m. - 12:30 p.m. U.S. Pacific Time Zone

Ben Kean Fellowship Committee Meeting

Convention Center - Room 209 (2nd Floor)
Monday, October 31, 11:15 a.m. - 12:30 p.m. U.S. Pacific Time Zone

Poster Session 14

Poster Session A Presentations

Convention Center - Hall 4A (4th Floor)
Monday, October 31, 11 a.m. - 12:45 p.m.

Poster Session A Directory

Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 42-54

Global Health – Other: 55-65

Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 66-85

Arthropods/Entomology – Other: 86-98

Mosquitoes - Insecticide Resistance and Control: 99-120

Mosquitoes - Vector Biology-Epidemiology: 121-133

Alphaviruses (Includes Chikungunya): 134-141

Flaviviridae – Dengue: 142-164

Flaviviridae – Other: 165-175

Flaviviridae - West Nile: 176-177

Viruses – Other: 178-215

Malaria - Antimalarial Resistance and Chemotherapy: 216-233

Malaria - Biology and Pathogenesis: 234-244

Malaria - Diagnosis - Challenges and Innovations: 245-261

Malaria - Drug Development and Clinical Trials: 262-275

Malaria – Elimination: 276-287

Malaria - Epidemiology, Surveillance and Data Utilization: 288-319

Malaria - Genomics and Evolution of Parasite Populations: 320-333

Malaria - Immune Responses to Infection and Disease: 334-346

Malaria – Other: 347-368

Malaria – Prevention: 369-384

Malaria - Vaccine Development and Human Trials: 385-400

Malaria - Vectors and Community-Based Responses: 401-411

Bacteriology - Enteric Infections: 412-423

Bacteriology - Other Bacterial Infections: 424-439

Clinical Tropical Medicine: 440-457

HIV and Tropical Co-Infections: 458-466

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Diagnosis and Treatment (Including Leishmania and Trypanosomes): 467-484

One Health: The Interconnection between People, Animals, Plants and Their Shared Environment: 485-498

Pneumonia, Respiratory Infections and Tuberculosis: 499-516

Schistosomiasis and Other Trematodes – Diagnostics and Treatment: 517-527

Schistosomiasis and Other Trematodes – Epidemiology and Control: 528-537

Water, Sanitation, Hygiene and Environmental Health: 538-550

Global Health - Information/ Communication/Technologies Solutions in Global Health including Modeling

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WHAT PREDICTS PEOPLE'S ADHERENCE TO COVID-19 MISINFORMATION? A RETROSPECTIVE STUDY USING A NATIONWIDE ONLINE SURVEY AMONG ADULTS RESIDING IN THE UNITED STATES

Sooyoung Kim, Ariadna Capasso, Tyler Headley, Shahmir Ali, Ralph DiClemente, Yesim Tozan
New York University School of Global Public Health, New York, NY, United States

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SUPPLY OR SERVICE? FACTORS AFFECTING DELIVERY OF INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN PREGNANCY IN DRC

Radha Rajan[1], Kathryn Sugg[1], Florence Mpata[2], Eric Sompwe Mukomena[3]
[1]Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, [2]Breakthrough ACTION DRC, Kinshasa, Democratic Republic of the Congo, [3]National Malaria Control Program - DRC, Kinshasa, Democratic Republic of the Congo

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IS IT POSSIBLE TO ACCURATELY PREDICT RISK OF PRETERM DELIVERY IN A RURAL SETTING IN ETHIOPIA?

Clara Pons-Duran[1], Bryan Wilder[1], Bezawit Mesfin Hunegnaw[2], Sebastien Haneuse[1], Frederick GB Goddard[1], Delayehu Bekele[2], Grace J. Chan[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]St Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia

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COST EFFECTIVENESS ANALYSIS OF EXPANDING TUBERCULOSIS PREVENTIVE THERAPY TO HOUSEHOLD CONTACTS AGED 5-14 YEARS IN THE PHILIPPINES

Ghassan Ilaiwy[1], Jessica L. Keim-Malpass[1], Romella Tuppal[2], Alexander F. Ritua[2], Flordeliza Bassiag[2], Tania A. Thomas[1]
[1]University of Virginia, Charlottesville, VA, United States, [2]Isabela State University, Echague, Philippines

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ELUCIDATING PNEUMOCOCCAL MIGRATION IN SOUTH AFRICA USING GENETIC AND HUMAN MOBILITY DATA

Sophie Belman[1], Noémie Lefrancq[2], Shabir A. Madhi[3], Anne von Gottberg[4], Mignon du Plessis[4], Stephen D. Bentley[1], Henrik Salje[2]
[1]Wellcome Sanger Institute, Hinxton, Saffron Walden, United Kingdom, [2]University of Cambridge, Cambridge, United Kingdom, [3]University of the Witwatersrand, Johannesburg, South Africa, [4]Centre for Respiratory Diseases and Meningitis, National Institute for Communicable Diseases, Johannesburg, South Africa

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SAVING YOUNG LIVES: TRIAGE AND MANAGEMENT OF SEPSIS IN CHILDREN USING SMART TRIAGE

Yashodani Pillay[1], Dustin Dunsmuir[1], Katija Pallot[1], Matthew O. Wiens[1], Collins Agaba[2], Annette M. Nabweteme[3], Jessica Rigg[4], Stefanie K. Novakowski[1], Abner V. Tagoola[5], Niranjan Kissoon[1], Mark J. Ansermino[1]
[1]University of British Columbia, Vancouver, BC, Canada, [2]World Alliance for Lung and Intensive Care Medicine in Uganda (WALIMU), Kampala, Uganda, [3]World Alliance For Lung and Intensive Care Medicine in Uganda (WALIMU), Kampala, Uganda, [4]Centre for International Child Health, Vancouver, BC, Canada, [5]Jinja Regional Referral Hospital, Jinja, Uganda

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DEVELOPMENT OF A NON-CONTACT HANDWASHING DEVICE TO PREVENT THE SPREAD OF COMMUNICABLE DISEASES IN NIGERIA

Padraic S. Casserly[1], David Fadare[1], Akinwale Coker[1], Rahaman Abu[1], Luke Ajuka[1], Olusola Oke[1], Erioluwa Morenikeji[1], Ademola Dare[1], Adetunji Lana[1], Chibueze Achi[1], Timothy Akinremi[1], Amos Adeleye[2], Olusola Idowu[2], Olabanji Olayinka[2], Mamoudou Maiga[3], Robert Murphy[3]
[1]University of Ibadan, Ibadan, Nigeria, [2]University College Hospital, Ibadan, Nigeria, [3]Northwestern University, Evanston, IL, United States

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PARTICIPATORY APPROACH IN MODELLING OF THE POTENTIAL IMPACT OF INTERVENTIONS ON THE COVID19 EPIDEMIC IN THE KYRGYZ REPUBLIC

Ainura Moldokmatova
University of Oxford, Oxford, United Kingdom

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THE DEVELOPMENT OF A MACHINE LEARNING-DRIVEN CLINICAL DECISION SUPPORT TOOL FOR THE MANAGEMENT OF DENGUE IN VIETNAM

Damien K. Ming[1], Bernard Hernandez[1], Nguyen Quang Huy[2], Luu Phuoc An[2], Ho Quang Chanh[2], Dong Thi Hoai Tam[2], Nguyen Tuan[2], Cameron P. Simmons[3], Bridget Wills[2], Pantelis Georgiou[1], Alison H. Holmes[1], Sophie Yacoub[2]
[1]Imperial College London, London, United Kingdom, [2]Oxford University Clinical Research Unit, Ho Chi Minh City, Viet Nam, [3]Institute of Vector-Borne Disease at Monash University, Melbourne, Australia

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CHALLENGES FOR PRECISE ESTIMATION OF CHILD IMMUNIZATION COVERAGE AND DROP-OUT RATE IN MANDERA COUNTY IN KENYA

Bentinck S. Ochieng'[1], Misiko T. Linda[1], Hassan Mumin[1], Cynthia A. Ngesa[1], Rashed Shah[2]
[1]Save the Children International Kenya, Nairobi, Kenya, [2]Save the Children US, Washington, DC, United States

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MULTIAGENT SIMULATION MODEL OF THE COVID-19 EPIDEMIC PROCESS WITH SOCIAL FACTORS

Olga Salun[1], Dmytro Chumachenko[2], Olena Muradyan[3], Tetyana Chumachenko[1]
[1]Kharkiv National Medical University, Kharkiv, Ukraine, [2]National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine, [3]V.N. Karazin Kharkiv National University, Kharkiv, Ukraine

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SYSTEMATIC REVIEW OF MATHEMATICAL MODELING OF INFECTIOUS DISEASE WITH HUMAN MOVEMENT DATA

Aniruddha Deshpande, Kristin Nelson
Emory University, Atlanta, GA, United States

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COMPARATIVE REPRESENTATIVENESS OF A MOBILE PHONE-BASED VS. IN PERSON SURVEY-BASED COVERAGE EVALUATION SURVEYS FOLLOWING MASS DRUG ADMINISTRATION FOR SOIL-TRANSMITTED HELMINTHS: INDIA

Rohan Michael Ramesh[1], William Edward Oswald[2], Gideon John Israel[1], Kumudha Aruldas[1], Sean Galagan[3], Arianna Rubin Means[3], Hugo Legge[2], Saravanakumar Puthupalayam Kaliappan[1], Judd L. Walson[3], Katherine Elizabeth Halliday[2], Sitara S.R. Ajjampur[1]
[1]Christian Medical College, Vellore, India, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom, [3]University of Washington, Seattle, WA, United States

Global Health – Other

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WORLD HEALTH ORGANIZATION COORDINATED SCIENTIFIC ADVICE FOR HEALTH PRODUCT RESEARCH AND DEVELOPMENT

Mercedes Perez Gonzalez, Marion Laumonier, Vasee Moorthy, Deus Mubangizi, Anna Laura Ross
World Health Organization, Geneva, Switzerland

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DEVELOPING A COMMUNITY OF PRACTICE FOR NTD PROGRAM MANAGERS IN AFRICA

Arianna Means[1], Sultani H. Matendechero[2], Maria Cecilia Cesar de Almeida[3], Traore Mahamadou[4], Gilbert Baayenda[5], Karsor K. Kollie[6], Massitan Dembele[4], Clarisse Bougouma[7], Agazi Fitsum Gebreselassie[8], Jusufu Paye[1], Phaedra Henley[8]
[1]University of Washington, Seattle, WA, United States, [2]National Public Health Institute, Ministry of Health, Nairobi, Kenya, [3]Neglected Tropical Disease Program, National Public Health Institute, Luanda, Angola, [4]NTD Programme, Ministry of Health, Bamako, Mali, [5]Vector Borne and Neglected Tropical diseases Division, Ministry of Health, Kampala, Uganda, [6]Neglected Tropical Disease Programme, Ministry of Health, Monrovia, Liberia, [7]National Programme for the Control of Neglected Tropical Diseases, Ouagadougou, Burkina Faso, [8]Center for One Health, University of Global Health Equity, Kigali, Rwanda

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COMMUNITY READINESS ASSESSMENT OF MALNUTRITION AND DIETARY INCLUSION OF RICE BRAN IN RURAL SOUTHWEST GUATEMALA

Roberto Delgado-Zapata[1], Diva M. Barrientos[2], **Annika Weber**[3], Melissa Fineman[1], Andrea Jimenez-Zambrano[4], Brigitte Pfluger[5], Maureen Cunningham[6], Elizabeth P. Ryan[3], Molly M. Lamb[1]
[1]Colorado School of Public Health, Aurora, CO, United States, [2]Centro del Desarrollo Humano Fundación para la Salud Integral de los Guatemaltecos, Guatemala, Guatemala, [3]Colorado State University, Fort Collins, CO, United States, [4]University of Colorado, Aurora, CO, United States, [5]Laney Graduate School, Emory University, Atlanta, GA, United States, [6]Childrens Hospital Colorado, Aurora, CO, United States

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HEALTH CARE SEEKING BEHAVIOR FOR ILLNESSES IN CHILDREN AGED UNDER FIVE YEARS IN WESTERN KENYA: A QUALITATIVE STUDY

Sarah Hawi Ngere[1], Victor Akelo[2], Sammy Khagayi[1], Ken Ondeng'e[1], Maryanne Nyanjom[1], Peter Otieno[1], Dickens Onyango[3], Beth A. Tippett Barr[2], Richard Omore[1]
[1]Kenya Medical Research Institute (KEMRI-CGHR), Kisumu, Kenya, [2]U.S. Centers for Disease Control and Prevention, Kisumu, Kenya, [3]Kisumu County Department of Health, Kisumu, Kenya

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ATTITUDES AND EXPERIENCES REGARDING MENSTRUAL HYGIENE MANAGEMENT AMONG MOZAMBICAN OF SCHOOL-AGE GIRLS

Helena Boene[1], Yolanda Maússe[1], Carlota Muianga[2], Tomohiko Morita[2], Naima Magaio[2], Eusebio Macete[1], Brecht Mommen[2], Khatia Munguambe[1]
[1]Manhica Health Research Center (CISM), Manhica village, Mozambique, [2]United Nations Children Fund, Maputo city, Mozambique

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IS 'SPEEDING UP' A FEASIBLE AND BENEFICIAL LONG-TERM STRATEGY IN DRUG AND VACCINE DEVELOPMENT? OPPORTUNITIES, RISKS, BENEFITS AND DRAWBACKS OF SYSTEMATIC ACCELERATION

Hanna K. de Jong[1], Sabine M. Hermans[1], Mariëtte A. van den Hoven[2], Martin P. Grobusch[1]
[1]Centre for Tropical Medicine and Travel Medicine, Department of Infectious Diseases, Division of Internal Medicine, Amsterdam UMC, Location University of Amsterdam, Amsterdam, Netherlands, [2]Department of Ethics, Law and Humanities, Amsterdam UMC, Location Vrije Universiteit Amsterdam, Amsterdam, Netherlands

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ASSESSING THE ECONOMIC IMPACT OF COVID-19 IN THE LARGEST TOWNSHIP IN SOUTH AFRICA: SOWETO

Dineo A. Thaele, Portia C. Mutevedzi, Pedzisai Ndagurwa, Nyasha Mutanda, Issac Choge, Cleopas Hwinya, Selamola Tloubatla, Shabir Madhi
Vaccines and Infectious Diseases Analytics Research Unit, Johannesburg, South Africa

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COMPARISON OF PREGNANCY AND BIRTH OUTCOMES USING ARCHIVAL MEDICAL RECORDS BEFORE AND DURING THE FIRST WAVE OF THE COVID-19 PANDEMIC IN KINSHASA, DEMOCRATIC REPUBLIC OF CONGO: A DESCRIPTIVE, LONGITUDINAL ANALYSIS

Patrick J. Arena[1], Camille Dzogang[2], Adva Gadoth[1], Dalau M. Nkamba[3], Nicole A. Hoff[1], David Kampilu[2], Michael Beya[2], Hui-Lee Wong[4], Steven A. Anderson[4], Didine Kaba[3], Anne W. Rimoin[1]
[1]UCLA Fielding School of Public Health, Los Angeles, CA, United States, [2]UCLA-DRC Health Research and Training Program, Kinshasa, Democratic Republic of the Congo, [3]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [4]U.S. Food and Drug Administration, Silver Spring, MD, United States

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CONGENITAL BIRTH DEFECTS AMONG PERINATAL DEATHS: FINDINGS FROM CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) BANGLADESH

Afruna Rahman[1], Kyu Han Lee[2], Muntasir Alam[1], Mohammad Zahid Hossain[1], Kazi Munisul Islam[1], Mohammad Sabbir Ahmed[1], Rajib Biswas[1], Shovo Debnath[1], Afsana Afrin[1], Emily S. Gurley[2], Shams El Arifeen[1]
[1]icddr,b, Dhaka, Bangladesh, [2]Johns Hopkins University, Baltimore, MD, United States

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CHARACTERISTICS OF CALLERS WHO SOUGHT FREE HEALTH SERVICES FROM CHAMPS CALL CENTRE IN BALIAKANDI, A RURAL SUB-DISTRICT OF BANGLADESH

Qazi Sadeq ur Rahman[1], Kazi Munisul Islam[1], Kyu Han Lee[2], Abu Md Saleheen[1], Afruna Rahman[1], Sanwarul Bari[1], Emily Gurley[2], Shams El Arifeen[1], Mohammad Zahid Hossain[1]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh, [2]Bloomberg School of Public Health Johns Hopkins University, Baltimore, MD, United States

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ACCELERATING UNIVERSAL HEALTH COVERAGE THROUGH CONTINUOUS PERFORMANCE IMPROVEMENT OF PRIVATE HEALTH FACILITIES IN BENIN

Karamatou Bangbola[1], Gninoussa Akadiri[1], **Mariam D. Bahova**[1], Sandra Djalle Incardona[1], Jordan M. Smith[1], Josea Ratsirarson[1], Heloise Gayet[1], Erin Mohebbi[2], Margaret Chappell[2], Jean Placide Agbogba[2]
[1]Medical Care Development International, Silver Spring, MD, United States, [2]Abt Associates, Rockville, MD, United States

Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s)

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EXTREMOPHILES AND THE SEARCH FOR EXTRA-TERRESTRIAL LIFE.

Cornelius C. Nwora
Texas Southern University, Houston, TX., Houston, TX, United States

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SOLUBLE ST2 PREDICTS SEVERE DENGUE AND CARDIAC DYSFUNCTION

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A HUMAN SKIN MODEL OF ARBOVIRUS INFECTION FOR ASSESSING THE IMPACT OF MOSQUITO SALIVARY FACTORS AT THE MOSQUITO-VIRUS-HOST INTERFACE

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HARMONIZATION OF MULTIPLE SARS-COV-2 REFERENCE MATERIALS USING THE WHO IS (NIBSC 20/136). RESULTS AND IMPLICATIONS

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DNA CONTAMINATION DURING EXTRACTION OF DRIED BLOOD SPOTS FROM WHATMAN FILTER PAPER

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PLASMODIUM FALCIPARUM DDI1 IS AN ESSENTIAL RETROVIRAL ASPARTYL PROTEASE WHICH REPAIRS ARTEMISININ DAMAGES IN THE MALARIA PARASITE

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DEVELOPMENT AND VALIDATION OF AN AFFORDABLE AND FULLY AUTOMATED MICROSCOPE SYSTEM FOR MALARIA DIAGNOSIS AND RESEARCH

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EFFECT OF PRIMAQUINE DOSE ON THE RISK OF RECURRENCE IN PATIENTS WITH UNCOMPLICATED *PLASMODIUM VIVAX*: A SYSTEMATIC REVIEW AND INDIVIDUAL PATIENT DATA META-ANALYSIS

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MAPPING HOUSE LOCATION WITH REMOTE SENSING AND DEEPING LEARNING METHODS IN RURAL KENYA AND ETHIOPIA

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CAREGIVERS' PERCEPTION OF RISK FOR MALARIA, HELMINTH INFECTION AND MALARIA-HELMINTH CO-INFECTION AMONG CHILDREN LIVING IN URBAN AND RURAL SETTINGS OF SENEGAL: A QUALITATIVE STUDY

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SEVERE ILLNESS DANGER SIGNS AMONG MALARIA POSITIVE CHILDREN: AN ANALYSIS OF HOUSEHOLD SURVEY DATA FROM 21 MALARIA ENDEMIC COUNTRIES IN SUB-SAHARAN AFRICA BETWEEN 2011-2020

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PREVALENCE OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* INFECTION IN SCHOOLS IN THREE DISTRICTS IN SENEGAL (2021)

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THE EFFECTS OF METEOROLOGICAL FACTORS & GEOGRAPHICAL ELEVATION ON MALARIA INCIDENCE IN ELIMINATION TARGETED DISTRICT OF ETHIOPIA

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POTENTIAL MALARIA IMPACT OF THE GRAND ETHIOPIAN RENAISSANCE DAM ON MALARIA TRANSMISSION IN ETHIOPIA

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PLASMODIUM FALCIPARUM NEUTRAL MICROSATELLITES TO INFORM MOLECULAR CORRECTION IN THERAPEUTIC EFFICACY STUDIES IN AFRICA

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A PROSPECTIVE STUDY OF *P. FALCIPARUM* GENOMIC INTELLIGENCE IN MOZAMBIQUE

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SPATIOTEMPORAL MAPPING OF MALARIA INCIDENCE IN SUDAN USING ROUTINE SURVEILLANCE DATA

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IMPLEMENTING A SIMPLIFIED, AUTOMATED ALGORITHM TO CLASSIFY MALARIA CASES IN SOUTHERN LAOS AND IDENTIFY HOTSPOTS OF TRANSMISSION

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EXPOSURE PATTERNS OF HUMANS TO MALARIA VECTORS IN WESTERN KENYA AND IMPLICATIONS FOR MALARIA CONTROL

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IMPROVING ROUTINE MALARIA DATA QUALITY THROUGH DATA REVIEW MEETINGS IN THE FAR NORTH AND NORTH REGIONS OF CAMEROON FROM 2019

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THE IMPACT OF THREE YEARS OF INDOOR RESIDUAL SPRAYING (IRS) INTERVENTION ON CONTROLLING MALARIA DISEASE IN KAMONYI DISTRICT, RWANDA

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APPLYING A STANDARDIZED, MOLECULAR ENTOMOLOGY DATA LABELING SYSTEM IN GHANA TO EFFECTIVELY INTEGRATE INTO CENTRAL DHIS2 DATABASE

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A NON-PARAMETRIC APPROACH TO ESTIMATE MULTIPLICITY OF INFECTION AND PATHOGEN HAPLOTYPE FREQUENCIES

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INVESTIGATION OF INCREASED MALARIA CASES IN SOLWEZI AND KALUMBILA DISTRICTS, NORTH-WESTERN PROVINCE OF ZAMBIA, SEPTEMBER, 2021

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THE RELATIONSHIP BETWEEN HOUSING, OCCUPATION, AND EDUCATION AND MALARIA RISK IN RURAL MOZAMBIQUE

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TRANSITIONING MALARIA SURVEILLANCE IN ZANZIBAR FROM MALARIA EARLY EPIDEMIC DETECTION SYSTEM (MEEDS) TO INTEGRATED DISEASE SURVEILLANCE AND RESPONSE (IDSR) SYSTEM: AN ON-GOING SYSTEM EVALUATION

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GOLD MINERS SHOOT UP MALARIA TRANSMISSION IN INDIGENOUS AREAS OF RORAIMA, BRAZIL

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ASYMPTOMATIC *PLASMODIUM* PREVALENCE IN HIGH-RISK POPULATIONS IN MONDULKIRI, CAMBODIA

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INFORMING STRATIFIED MALARIA CONTROL FOR HIGHEST IMPACT: A SEMI-MECHANISTIC, MULTI-METRIC, BAYESIAN GEOSTATISTICAL MODELLING FRAMEWORK TO SUPPORT MALARIA CONTROL PLANNING IN MOZAMBIQUE

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CHARACTERIZING CASES OF FATAL SEVERE MALARIA IN THE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS) SITES OF MANHIÇA AND QUELIMANE, MOZAMBIQUE

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AN EVOLUTION FROM A PREDOMINANT K1 ALLELIC VARIANT TO MAD20 OF MSP1 GENE BETWEEN 2015 TO 2019 IN METEHARA, SOUTHEAST ETHIOPIA.

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USING TREE-BASED IDENTITY-BY-DESCENT SEGMENTS TO EVALUATE THE EFFECT OF DIRECTIONAL SELECTION ON THE ESTIMATION OF RECENT EFFECTIVE POPULATION SIZE AND POPULATION STRUCTURE IN *PLASMODIUM FALCIPARUM*

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CHROMOSOME SPLITTING OF *PLASMODIUM BERGHEI* USING THE CRISPR/CAS9 SYSTEM

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MICROSATELLITE CHARACTERIZATION AND ANTIGENIC SEQUENCING OF KENYAN *PLASMODIUM FALCIPARUM* FIELD ISOLATES FOR DOWN SELECTION OF NEW STRAINS FOR USE IN CONTROLLED HUMAN MALARIA INFECTION (CHMI) STUDIES

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FROM SNPS TO MICROHAPLOTYPES - SEARCHING FOR GEOGRAPHIC SIGNALS IN *PLASMODIUM FALCIPARUM* DNA

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PLASMODIUM FALCIPARUM GENETIC DIVERSITY IN COINCIDENT HUMAN AND MOSQUITO HOSTS

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NOVEL MOLECULAR INVERSION PROBES FOR HIGH-THROUGHPUT GENOTYPING OF *PLASMODIUM VIVAX* POPULATIONS

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STRONG FINE-SCALE SPATIAL AND TEMPORAL STRUCTURE OF RESIDUAL *PLASMODIUM FALCIPARUM* IN ZANZIBAR DETECTED THROUGH MULTIPLEXED AMPLICON SEQUENCING AND MINION SEQUENCING

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RELATEDNESS OF *PLASMODIUM FALCIPARUM* WITH PFHRP2 AND PFHRP3 DELETIONS IN THE HORN OF AFRICA COMPARED TO OTHER GLOBAL ISOLATES

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TARGETED NEXT GENERATION GENOMIC SURVEILLANCE APPROACHES TO CHARACTERIZE *PLASMODIUM VIVAX* RELATEDNESS

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ESTIMATING MULTIPLICITY OF INFECTION FROM MULTIPLE GENETIC MARKERS

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A FORWARD GENETIC SCREEN REVEALS *PLASMODIUM FALCIPARUM* GENES LINKED TO SURVIVAL IN SICKLE-TRAIT CELLS

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EFFICACY OF ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN DJOUGOU AND POBÈ IN THE REPUBLIC OF BENIN, 2020

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PLASMODIUM FALCIPARUM GENOMIC SURVEILLANCE REVEALS SPATIAL AND TEMPORAL TRENDS, ASSOCIATION OF GENETIC AND PHYSICAL DISTANCE, AND HOUSEHOLD CLUSTERING

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ASSESSMENT OF THE IMPACT OF PREGNANCY AND MALARIA INFECTION ON THE VARIATION OF NEUTROPHIL LEVELS IN WOMEN FROM SAN, MALI

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EVALUATION OF NATURALLY ACQUIRED IMMUNITY AGAINST NOVEL *PLASMODIUM VIVAX* PRE-ERYTHROCYTIC ANTIGENS IN HUMAN POPULATION FROM LOW ENDEMIC MALARIA REGION

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INITIAL RTS,S/AS01 ANTIBODY RESPONSE AND EFFICACY ARE POSITIVELY ASSOCIATED WITH MALARIA TRANSMISSION INTENSITY

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CROSS REACTIVITY OF *PLASMODIUM FALCIPARUM* ANTIGENS PF27, PF43, PF45 WITH THEIR ORTHOLOGS PV27, PV43, PV45 OF *PLASMODIUM VIVAX* TO SERA FROM DONORS LIVING IN KÉNIÉROBA, MALI

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TRANSCRIPTOME ANALYSIS OF ADAPTIVE IMMUNE RESPONSE TO CHAD63 MVA ME-TRAP VACCINE

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INCREASED PLASMA LEVEL OF INTERLEUKIN-8 IS ASSOCIATED WITH FATAL OUTCOME IN CHILDREN WITH CEREBRAL MALARIA

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INVESTIGATION OF MONOCYTE GENE REGULATORY NETWORKS BEFORE, DURING, AND AFTER ACUTE MALARIA USING SINGLE CELL TRANSCRIPTOMICS AND EPIGENOMICS

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DISTINCT TRANSCRIPTIONAL RESPONSES ASSOCIATED WITH VACCINATION STATUS AND PROTECTION OUTCOMES AFTER MALARIA CHALLENGE

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COMPARATIVE IMMUNOGENETICS OF SEVERE MALARIAL ANEMIA IN PRIMATE MODEL

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AN INSIGHT OF THE PERCEPTION OF FRANCOPHONE AFRICAN IMMIGRANTS ON MALARIA-RELATED KNOWLEDGE OF HEALTHCARE PROFESSIONALS IN WESTERN CANADIAN MINORITY REGIONS

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COMMUNITY EDUCATION, PERCEPTION AND BEHAVIORAL CHANGE ARE THE KEY DETERMINANTS OF MALARIA OUTBREAK AT DOLONIBASTI SUB-CENTRE OF UDALGURI DISTRICT, ASSAM, NORTH-EAST INDIA

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IMPROVEMENTS IN THE INTEGRATED DISEASE SURVEILLANCE AND RESPONSE (IDSR) SYSTEM FOR MALARIA SURVEILLANCE IN MAINLAND TANZANIA

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CATALYTIC ROLE OF GOVERNANCE IN IMPROVING UPTAKE OF MALARIA IN PREGNANCY INTERVENTIONS: EXPERIENCES FROM PARTICIPATION OF COUNTY LEADERSHIP IN QUALITY IMPROVEMENT (QI) IN IPTP UPTAKE IN VIHIGA COUNTY, KENYA

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MALARIA AND ECONOMIC GROWTH IN IVORY COAST

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ASSOCIATION OF ANTHELMINTHIC TREATMENT WITH MALARIA PREVALENCE: A SECONDARY DATA ANALYSIS OF THE SUSSUNDENGA MALARIA STUDY.

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*PLASMODIUM VIVAX*AND SARS-COV-2 CO-INFECTION IN VENEZUELA: A CASE SERIES FROM THE MALARIA HOTSPOT IN LATIN AMERICA

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DETERMINANTS OF MALARIA-RELATED COMMODITIES STOCKOUTS IN THE 4TH QUARTER OF 2019, AT THE 34 HEALTH ZONES' DISTRIBUTION WAREHOUSES

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THE USE OF OUTCOME HARVESTING TO EVALUATE THE INTEGRATION OF PRIVATE SECTOR MALARIA CASE MANAGEMENT TO NATIONAL HEALTH SYSTEMS IN VIETNAM

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FACTORS ASSOCIATED WITH IPTP UPTAKE AMONG PREGNANT WOMEN IN MADAGASCAR

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UNDERSTANDING ANTENATAL SERVICE QUALITY THROUGH SUPPORTIVE SUPERVISION DATA IN TANZANIA

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THREE DELAYS OF MALARIA CARE-SEEKING: COMPARING STRUCTURAL AND PSYCHOSOCIAL FACTORS INFLUENCING PROMPT CARE-SEEKING IN MALAWI

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PERFORMANCE OF COMMUNITY HEALTH INFLUENCERS, PROMOTERS AND SERVICES (CHIPS) ON CASE MANAGEMENT OF UNCOMPLICATED MALARIA

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THE CONTRIBUTION OF THE U.S. PMI IMPACT MALARIA PROJECT IN BUILDING THE CAPACITY OF MATERNITY PROVIDERS ON MALARIA IN PREGNANCY IN MALI

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ENGINEERING A TRANSGENIC ASAIA BOGORENSIS STRAIN TO CONTROL AN EFFECTOR PLASMID WITH A CONDITIONAL ORIGIN OF REPLICATION FOR PARATRANSGENESIS USE

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EFFECT OF FIVE ROUNDS OF SEASONAL MALARIA CHEMOPREVENTION IN CHILDREN AGED BETWEEN 5 AND 14 YEARS IN DANGASSA MALI

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IMPACT OF PROACTIVE COMMUNITY CASE MANAGEMENT ON MALARIA AND ANEMIA PREVALENCE AMONG PREGNANT WOMEN IN BANKASS, MALI, 2020

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ACCOUNTING FOR REGIONAL TRANSMISSION VARIABILITY AND THE IMPACT OF MALARIA CONTROL INTERVENTIONS IN GHANA: A POPULATION LEVEL MATHEMATICAL MODELLING APPROACH

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THE ROLE OF CELL-TRAVERSAL PROTEIN FOR OOKINETES AND SPOROZOITES IN STERILE IMMUNITY INDUCED BY RADIATION-ATTENUATED SPOROZOITE VACCINES IN THE NATURAL HOST

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PLASMODIUM VIVAX MULTISTAGE VACCINE BASED ON THE HETEROLOGOUS VIRAL-VECTORED PLATFORM ACHIEVES STERILE PROTECTION AND TRANSMISSION BLOCKING

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EXPLORING THE IMPACT OF CONTROL INTERVENTIONS ON INSECTICIDE-RESISTANT MOSQUITOES THROUGH IMPROVED BIOLOGICAL REALISM IN MALARIA MODELS

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ASSESSING NATIONAL VECTOR CONTROL MICRO-PLANNING IN ZAMBIA USING THE 2021 MALARIA INDICATOR SURVEY

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DEVELOPING FIELD-DEPLOYABLE RT-PCR TOOL FOR MOSQUITO INSECTICIDE RESISTANCE SURVEILLANCE

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SEASONAL DYNAMICS OF AN EMERGING AFRICAN MALARIA VECTOR, ANOPHELES STEPHENSI: IMPLICATIONS FOR MALARIA CONTROL

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EVALUATING THE ASSOCIATION BETWEEN NEXT GENERATION LONG-LASTING INSECTICIDE TREATED NETS WITH PIPERONYL BUTOXIDE AND MALARIA PARASITE PREVALENCE AMONG CHILDREN UNDER FIVE IN ZAMBIA

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THE SYMBIOTIC TC1 BACTERIUM IS A NOVEL MOSQUITO-BASED MALARIA INTERVENTION TOOL

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EFFECT OF DELTAMETHRIN-PIPERONYL BUTOXIDE (PBO) INSECTICIDE-TREATED NETS ON MALARIA CASE INCIDENCE AND ENTOMOLOGICAL INDICATORS IN EBONYI, NIGERIA

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EXPLORING THE EFFECT OF WOLBACHIA-INDUCED IMMUNITY GENES ON *PLASMODIUM FALCIPARUM* SUPPRESSION IN ANOPHELES STEPHENSI

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ONE-HALF OF BYSTANDER EXPOSURES OF ENTERIC PATHOGENS TO ANTIBIOTICS WERE DUE TO RESPIRATORY ILLNESSES, ONE-QUARTER DUE TO DIARRHEAL ILLNESSES

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ESTIMATING THE PROPORTION OF SUSPECTED CHOLERA CASES THAT REPRESENT TRUE VIBRIO CHOLERAE INFECTIONS: A SYSTEMATIC REVIEW AND META-ANALYSIS

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INVESTIGATING THE IMPACT OF SOCIAL AND ENVIRONMENTAL EXTREMES ON CHOLERA TIME VARYING REPRODUCTIVE NUMBER IN NIGERIA

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MODELING ACQUISITION AND CLEARANCE DYNAMICS OF CAMPYLOBACTER IN CHILDREN IN LOW- AND MIDDLE-INCOME COUNTRIES

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ASSESSMENT OF GUT MICROBIOME IN ANGOLAN SICKLE CELL DISEASE CHILDREN. EFFECT OF HYDROXYUREA TREATMENT

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EVALUATE SNP BASED NOVEL DIAGNOSTIC ASSAY FOR ENTERIC FEVER DETECTION IN LIMITED RESOURCE SETTINGS

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DIGESTIVE TOLERABILITY AND ACCEPTABILITY OF FIBERSOL-2 IN HEALTHY AND DIARRHEAL CHILDREN 1-3 YEARS OLD AT A RURAL FACILITY, BANGLADESH: RESULTS FROM A FOUR ARM EXPLORATORY STUDY

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RECOGNISING SEPSIS AS A HEALTH PRIORITY IN SUB-SAHARAN AFRICAN COUNTRY: LEARNING LESSONS FROM ENGAGEMENT WITH GABON'S HEALTH POLICY STAKEHOLDERS

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BIOMARKERS OF AETIOLOGY IN HOSPITALISED CHILDREN WITH SEVERE ACUTE INFECTIONS

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IMMUNOGENICITY OF A PSORALEN-INACTIVATED WHOLE-CELL NEISSERIA GONORROHOEA VACCINE IN MICE

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DEEP NECK INFECTIONS IN DIABETIC PATIENTS: A COMPARATIVE STUDY WIH NON DIABETIC PATIENTS

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DEVELOPMENT OF DEEP GENOME MINING BASED DIAGNOSTICS FOR CURABLE SEXUALLY TRANSMITTED INFECTIONS

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A MENINGOCOCCAL MENINGITIS RAPID DIAGNOSTIC TEST IN CEROBROSPINAL FLUID (CSF)

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COMMUNITY SURVEY OF LEPROSY, SCHISTOSOMIASIS, STRONGYLOIDIASIS, SARS-COV-2, AND ASSOCIATIONS WITH WASH AND SES IN EASTERN MINAS GERAIS, BRAZIL

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EXPLORING THE BIOACTIVITY OF KHAYA SENEGALENSIS (DESR.) A. JUSS. FOR COMBATING MULTIPLE DRUG-RESISTANT STAPHYLOCOCCUS AUREUS INFECTIONS

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COMMON ENVIRONMENTAL EXPOSURES IN INDIVIDUALS WITH HANSEN'S DISEASE IN THE SOUTHERN UNITED STATES

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EFFECT OF EFFLUX PUMP INHIBITORS ON CLINICAL STRAINS OF MULTIRESISTANT KLEBSIELLA PNEUMONIAE

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RELATIONSHIP BETWEEN ACUTE FEBRILE ILLNESS AND EMERGING AND RE-EMERGING BACTERIAL PATHOGENS IDENTIFIED IN PATIENTS AT A HEALTH FACILITY IN THE PERUVIAN JUNGLE

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SPATIOTEMPORAL DISTRIBUTION AND DETERMINANTS OF SCRUB TYPHUS IN THAILAND

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ETIOLOGICAL AGENTS OF DIARRHEAL DISEASES DETECTED AMONG UNDER-5 DEATHS IN MANHIÇA AND QUELIMANE DISTRICTS, MOZAMBIQUE IN THE CHAMPS NETWORK, 2017-2021

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THE UTILIZATION OF PARTOGRAM AMONG NURSES AND MIDWIVES, IN THE LABOUR WARD AT EDWARD FRANCIS SMALL TEACHING HOSPITAL (EFSTH)

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SHORTENING BURULI ULCER TREATMENT: WHO RECOMMENDED VS. A NOVEL BETALACTAM CONTAINING THERAPY - PHASE II AND PHASE III STUDIES IN WEST AFRICA (THE BLMS4BU CLINICAL TRIAL)

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FIRST-IN-HUMAN EVALUATION OF CUTANEOUS INNATE AND ADAPTIVE IMMUNOMODULATION BY MOSQUITO BITES

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DEVELOPMENT AND ADVANCEMENT OF THE DIRECT SKIN FEEDING ASSAY AS AN IMPORTANT TOOL FOR EVALUATING THE EFFICACY OF MALARIA TRANSMISSION BLOCKING VACCINE IN FIELD TRIALS

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REGIONAL VARIATION OF CAESAREAN SECTIONS IN THE DOMINICAN REPUBLIC

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SLOW BUT STEADY: WORKING TO INCREASE CHAGAS DISEASE TESTING THROUGH AN EDUCATIONAL INTERVENTION AT A SAFETY NET HOSPITAL

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KNOWLEDGE AND PERCEPTIONS OF ANTIBIOTICS AMONG VILLAGE HEALTH WORKERS IN SOUTHWESTERN UGANDA

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CONTINUOUS NON-INVASIVE HAEMODYNAMIC MONITORING FOR VIETNAMESE CHILDREN WITH DENGUE SHOCK SYNDROME

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HOW EQAS HELP IDENTIFY ISSUES IN CLINICAL DIAGNOSTICS OF PARASITOLOGY

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MOBILIZING HEALTH CARE FOR NEWLY ARRIVED HUMANITARIAN PAROLEES IN MINNESOTA: A MULTIDISCIPLINARY, MULTI-AGENCY COLLABORATION

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AFGHAN EVACUEE WOMEN'S CLINIC - A MODEL FOR CULTURALLY INCLUSIVE CARE

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CAUSES OF FEBRILE DISEASE IN HOSPITALIZED PATIENTS IN A TROPICAL COUNTRY : A RETROSPECTIVE TERTIARY CARE HOSPITAL COHORT STUDY

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COMPARISON OF COMMERCIALLY-AVAILABLE, RAPID, POINT-OF-CARE C-REACTIVE PROTEIN ASSAYS AMONG CHILDREN WITH FEBRILE ILLNESS IN SOUTHWESTERN UGANDA

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DEVELOPMENT OF A CLINICAL PREDICTION RULE IDENTIFYING PROTOZOAL ETIOLOGY OF DIARRHEAL ILLNESS

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AN ALTERNATIVE NANOPORE SEQUENCING-BASED DIAGNOSTIC APPROACH FOR ARBOVIRUS SCREENING

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FOOD INSECURITY AS A BARRIER TO ANTIRETROVIRAL THERAPY IN POPOKABAKA HEALTH ZONE, A CASE STUDY

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EVALUATION OF SEXUAL DYSFUNCTION AND IDENTIFICATION OF RISK FACTORS OF WOMEN INFECTED BY HUMAN IMMUNODEFICIENCY VIRUS DURING THE COVID19 PANDEMIC IN 2020 IN CONAKRY

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IMPLEMENTING WHO PACKAGE OF CARE FOR PERSONS WITH ADVANCED HIV DISEASE IN ETHIOPIA

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HIV PRE-EXPOSURE PROPHYLAXIS (PREP) MODELS OF DELIVERY IN LOW TO MIDDLE INCOME COUNTRIES: A PROPOSED MODEL FOR AN INTEGRATED CARE MODEL

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PERINATAL HIV EXPOSURE IN SIX-TO TEN-YEAR OLD UGANDAN CHILDREN AND ITS ASSOCIATION WITH CAREGIVER DEPRESSION SYMPTOMS

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VASCULAR FACIAL SKIN LESIONS IN A FEBRILE IMMUNOCOMPROMISED PATIENT IN RURAL KWAZULU-NATAL, SOUTH AFRICA

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DISSEMINATED CRYPTOCOCCOSIS IN HIV/AIDS - A SUCCESS OF ALTERNATIVE REGIMEN OF AMPHOTERICIN-B

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DIAGNOSIS AND PREVALENCE OF CRYPTOSPORIDIUM AND GIARDIA INFECTIONS IN CHILDREN UNDER FIVE YEARS WITH MODERATE TO SEVERE DIARRHOEA ATTENDING TWO HEALTH FACILITIES IN BLANTYRE, MALAWI

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EFFECT OF CLINICIAN INFORMATION SESSIONS ON DIAGNOSTIC TESTING FOR CHAGAS DISEASE

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EVALUATION OF SCID MOUSE MODEL FOR EXPEDITING CHAGAS DRUG DISCOVERY

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ASSESSMENT OF SYNTHETIZED BRIDGED-LACTAM ORGANIC COMPOUNDS FOR *IN VITRO* ACTIVITY AGAINST LEISHMANIA MAJOR, AN AGENT OF HUMAN LEISHMANIASIS

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DRAMATIC INCREASE IN THE NUMBER OF MICROTUBULE ASSOCIATED PROTEIN GENES IN TRYPANOSOMA CRUZICOMPARED WITH TRYPANOSOMA BRUCEI

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EVALUATION OF TWO FDA-APPROVED ANTISEPTICS USED IN WOUND CARE AND ORAL HYGIENE FOR EFFICACY IN THE TREATMENT OF LEISHMANIASIS

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TRYPANOSOMA CRUZI-SPECIFIC B CELL RESPONSES IN SERODISCORDANT SUBJECTS FOR CHAGAS DISEASE

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DIAGNOSIS OF BALAMUTHIA MANDRILLARIS ENCEPHALITIS BY TA CLONING TARGETING UNIVERSAL EUKARYOTIC GENE

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DNA DIAGNOSIS OF CUTANEOUS LEISHMANIASES (CL) USING MULTIPLEX PCR ASSAY COUPLED TO LATERAL FLOW (LF) DNA CHROMATOGRAPHY

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POST-KALA-AZAR DERMAL LEISHMANIASIS DRUG EFFICACY STUDY LANDSCAPE: A SYSTEMATIC REVIEW OF CLINICAL AND OBSERVATIONAL STUDIES TO ASSESS THE FEASIBILITY OF ESTABLISHING AN INDIVIDUAL PARTICIPANT-LEVEL DATA PLATFORM

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IMMUNODIAGNOSTIC POTENTIAL OF CD1A MARKER TO DETECT CUTANEOUS LEISHMANIASIS CAUSED BY LEISHMANIA DONOVANI

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A NOVEL ASSAY BASED ON RECOMBINASE AMPLIFICATION AND LATERAL FLOW CHROMATOGRAPHY FOR THE DIAGNOSIS OF L. INFANTUM CUTANEOUS LEISHMANIASIS

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PEER-NAS-USAID 518 PROJECT: RECOMBINASE POLYMERASE AMPLIFICATION (RPA) AND LATERAL FLOW (LF) ASSAYS FOR POC DNA DIAGNOSIS OF CUTANEOUS LEISHMANIASES IN MENA AND DEVELOPMENT IMPACT

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CIDALSDB: A NOVEL RESOURCE FOR ANTI-LEISHMANIA DRUG DISCOVERY USING MACHINE LEARNING AND LIGAND-BASED APPROACHES

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STANDARDIZATION OF HIGH-CONTENT (HC) PHENOTYPE IMAGING AND VALIDATIONS FOR NOVEL DRUG DISCOVERY AGAINST INTRACELLULAR TRYPANOSOMA CRUZI

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DIAGNOSING AMERICAN TEGUMENTARY LEISHMANIASES USING ELISA WITH LB6H RECOMBINANT ANTIGEN

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DEVELOPMENT OF CDC-LIKE ASSAYS FOR HIGH THROUGHPUT SCREENING OF NOVEL CLK1 INHIBITORS

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TRICHOMONAS VAGINALIS ISOLATES FROM SYMPTOMATIC WOMEN IN EGYPT: GENOTYPIC ANALYSIS AND METRONIDAZOLE SUSCEPTIBILITY

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One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

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PLASMODIUM FALCIPARUM PARASITE PREVALENCE DIFFERS BY TYPE OF DOMESTICATED ANIMAL OWNED BY HOUSEHOLDS IN DEMOCRATIC REPUBLIC OF CONGO

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FOCAL UROGENITAL SCHISTOSOMA INFECTION, MALARIA AND ANEMIA AMONG SCHOOL-AGE CHILDREN IN THE KASSENA NANKANA EAST DISTRICT, GHANA

Sylvester Dassah[1], Gideon K. Asiamah[2], Valentine Harun[2], Kwaku Appiah-Kubi[2], Abraham Oduro[3], Victor Asoala[3], Lucas Amenga-Etego[4]
[1]Department of Biochemistry and Forensic Sciences, C.K Tedam University of Technology and Applied Sciences, Navrongo, Ghana, [2]Department of Applied Biology, University for Development Studies, Navrongo, Ghana, [3]Navrongo Health Research Centre, Navrongo, Ghana, [4]West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), Accra, Ghana

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ENVIRONMENTAL CONTAMINATION WITH SCHISTOSOMA JAPONICUM EGGS FROM AGRICULTURAL PRACTICES AND SANITATION INFRASTRUCTURE IN SICHUAN, CHINA

Andrea J. Lund[1], Elise Grover[1], Yang Liu[2], Elizabeth Carlton[1]
[1]Colorado School of Public Health, Aurora, CO, United States, [2]Sichuan Centers for Disease Control and Prevention, Chengdu, China

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THE DEVELOPMENT OF MOBILE ENABLED DIAGNOSTICS FOR SCHISTOSOMIASIS CONTROL ANALYTICS (MEDSCAN)

Carson Paige Moore[1], Maurice R. Odiere[2], Govert J. van Dam[3], David W. Wright[1], Thomas F. Scherr[1]
[1]Vanderbilt University, Nashville, TN, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya, [3]Leiden University Medical Center (LUMC), Leiden, Netherlands

Water, Sanitation, Hygiene and Environmental Health

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BOTTLED WATER AS A MAIN DRINKING WATER SOURCE IN COUNTRIES WITHIN THE LATIN AMERICA AND CARIBBEAN GROUP

John D. McLennan
University of Calgary, Calgary, AB, Canada

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CHANGE IN MAIN DRINKING WATER SOURCES OVER TIME IN THE CARIBBEAN ISLAND NATIONS OF CUBA, DOMINICAN REPUBLIC, AND HAITI

John D. McLennan
University of Calgary, Calgary, AB, Canada

540

HOUSEHOLD BIRD OWNERSHIP IS ASSOCIATED WITH RESPIRATORY ILLNESS AMONG YOUNG CHILDREN IN URBAN BANGLADESH (CHOBI7 PROGRAM)

Tahmina Parvin[1], Elizabeth D Thomas[2], Kelly Endres[2], Daniel Leung[2], Md Sazzadul Islam Bhuyian[1], Ismat Minhaj Uddin[1], Md Tasdik Hasan[1], Fatema Zohura[1], Jahed Masud[1], Shirajum Monira[1], Jamie Perin[2], Munirul Alam[1], A.S.G Faruque[1], Christine Marie George[2]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh(icddr,b), Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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FOOD HYGIENE PRACTICES AND FECAL CONTAMINATION ON THE HOUSEHOLD COMPOUND ARE ASSOCIATED WITH PEDIATRIC DIARRHEA IN URBAN BANGLADESH (CHOBI7 PROGRAM)

Ismat Minhaj Uddin[1], Kelly Endres[2], Tahmina Parvin[1], Md Sazzadul Islam Bhuyian[1], Fatema Zohura[1], Jahed Masud[1], Shirajum Monira[1], Md Tasdik Hasan[1], Shwapon Kumar Biswas[1], Marzia Sultana[1], Elizabeth D Thomas[2], Jamie Perin[2], David A. Sack[2], A.S.G Faruque[1], Munirul Alam[1], Christine Marie George[2]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh(icddr,b), Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

542

METHODS TO EVALUATE COVID-19 CONTROL HYGIENE PROGRAMS: OBSERVED MASK WEARING, HANDWASHING, AND PHYSICAL DISTANCING BEHAVIORS IN PUBLIC INDOOR SPACES IN DEMOCRATIC REPUBLIC OF THE CONGO

Christine Marie George[1], Kelly Endres[1], Presence Sanvura[2], Camille Williams[1], Raissa Boroto[2], Claude Lunyelunye[2], Jean Claude Bisimwa[2], Jessy Tumsifu[2], Brigitte Munyerenkana[2], Thomas Handzel[3], Justin Bengehya[4], Ghislain Maheshe[5], Alain Mwishingo[2], Cirhuza Cikomola[2], Lucien Bisimwa[2]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Center for Tropical Diseases & Global Health, Université Catholique de Bukavu, Bukavu, Democratic Republic of the Congo, [3]Centers for Disease Control and Prevention, Alanta, GA, United States, [4]Bureau de l'Information Sanitaire, Surveillance Epidémiologique et Recherche Scientifique, Division Provincial de la Santé Sud Kivu, Ministère de la Santé, Bukavu, Democratic Republic of the Congo, [5]Faculty of Medicine, Université catholique de Bukavu, Bukavu, Democratic Republic of the Congo

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WATER, SANITATION, AND HYGIENE AND NUTRITIONAL RISK FACTORS FOR ACUTE RESPIRATORY ILLNESS IN THE DEMOCRATIC REPUBLIC OF THE CONGO: REDUCE PROSPECTIVE COHORT STUDY

Kelly Endres[1], Presence Sanvura[2], Camille Williams[1], Elizabeth D. Thomas[1], Jennifer Kuhl[1], Nicole Coglianese[2], Sarah Bauler[2], Ruthly François[1], Jean Claude Bisimwa[2], Patrick Mirindi[2], Jamie Perin[1], Alain Namegabe[1], Lucien Bisimwa[2], Daniel Leung[3], Christine Marie George[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Food for the Hungry, Phoenix, AZ, United States, [3]University of Utah School of Medicine, Salt Lake City, UT, United States

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SANITATION AND HYGIENE IN AN URBAN-WORKING CLASS NEIGHBORHOOD OF SÃO PAULO, BRAZIL

Savannah V. Miller, Jeffrey Lesser, Emily Pingel, Donghai Liang
Emory University, Atlanta, GA, United States

545

HANDWASHING AND COVID-19 PREVENTION IN AFRICA: A MULTI-COUNTRY STUDY

Henrietta Osaretin Owie[1], Abisola Olufunke Olapeju[2]
[1]Qualiquant Services Limited, Lagos, Nigeria, [2]University College Hospital, Ibadan, Nigeria

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WASTEWATER SURVEILLANCE SYSTEM TO EVALUATE SARS-COV-2 AND OTHER VIRUSES IN A CITY WITHOUT WASTEWATER TREATMENT PLANT FROM THE HIGHLANDS IN PERU

César Arturo Valdivia-Carrera[1], Ana Cecilia Ho-Palma[2], Astrid Sherely Munguia-Mercado[1], Claudia Ibacache-Quiroga[3], Alejandro Dinamarca[3], Milan Stehlík[4], Marta Rusiñol[5], Rosina Girones[6], Eloy Gonzales-Gustavson[1]
[1]Tropical and Highlands Veterinary Research Institute, Universidad Nacional Mayor de San Marcos, Junin, Peru, [2]Department of Human Medicine, School of Human Medicine, Universidad Nacional del Centro del Peru, Junin, Peru, [3]Escuela de Nutrición y Dietética, Facultad de Farmacia, Universidad de Valparaíso, Valparaíso, Chile, [4]Instituto de Estadística, Universidad de Valparaíso, Valparaíso, Chile, [5]Institute of Environmental Assessment & Water Research (IDAEA), CSIC, Barcelona, Spain, [6]Section of Microbiology, Virology and Biotechnology, Department of Genetics, Microbiology and Statistics. Faculty of Biology, University of Barcelona, Barcelona, Spain

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FOOD POISONING AND DEATH LINKED TO MONOCROTOPHOS CONTAMINATION OF TRADITIONAL BEVERAGE- ZAMBIA 2021

Thelma M. Shinjeka, Situmbeko Mwangala, Maliwa Lubasi, Francis Hadunka, Nyambe Sinyange
Field Epidemiology Training Program, Lusaka, Zambia

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GEOGRAPHIC VARIATION AND DETERMINANTS OF CHILD FECES DISPOSAL PRACTICES IN 42 LOW- AND MIDDLE- INCOME COUNTRIES: AN ANALYSIS OF STANDARDIZED CROSS-SECTIONAL SURVEY DATA FROM 2016-2020

Stephen G. Mugel, Thomas F. Clasen, Valerie Bauza
Emory University, Atlanta, GA, United States

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SPATIAL HETEROGENEITY OF NEIGHBORHOOD-LEVEL WATER AND SANITATION ACCESS IN INFORMAL URBAN SETTLEMENTS: A CROSS-SECTIONAL CASE STUDY IN BEIRA, MOZAMBIQUE

Courtney Victor[1], Denisse Vega Ocasio[1], Zaida A. Cumbe[2], Joshua V. Garn[3], Sydney Hubbard[1], Magalhaes Mangamela[4], Sandy McGunegill[1], Rassul Nalá[5], Jedidiah S. Snyder[1], Karen Levy[6], Matthew C. Freeman[1]
[1]Emory University, Atlanta, GA, United States, [2]WEConsult, Maputo, Mozambique, [3]University of Nevada, Reno, Reno, NV, United States, [4]Autoridade Reguladora de Água (AURA, IP), Maputo, Mozambique, [5]Instituto Nacional de Saúde, Maputo, Mozambique, [6]University of Washington, Seattle, WA, United States

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INVESTIGATION OF FOOD POISONING OUTBREAK AT A TRADITIONAL INITIATION CEREMONY IN PETAUKE DISTRICT, EASTERN PROVINCE OF ZAMBIA, OCTOBER 2021

Oscar Nzila, Amos Hamukale, Nyambe Sinyange
Zambia National Public Health Institute/Ministry of Health, Lusaka, Zambia

Late-Breaker Abstract Session 16

Late-Breakers in Basic Science

Convention Center - Room 602/603/604 (6th Floor)
Monday, October 31, 11:15 a.m. - 12:30 p.m. U.S. Pacific 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

Jill Weatherhead
Baylor College of Medicine, Houston, TX, United States

Yai Justin Doritchamou
National Institute of Allergy and Infectious Disease, Bethesda, MD, United States

Poster Session A Viewing

Convention Center - Room 4A (4th Floor)
Monday, October 31, 12:45 p.m. – 4 p.m. U.S. Pacific Time Zone

Symposium 17

Alan J. Magill Malaria Eradication Symposium: Limitations and Challenges in Malaria Elimination

Convention Center - Room 6AB (6th Floor)
Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

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 leaders in the malaria field together to summarize the challenges and advances in areas of relevance to the malaria elimination and eradication effort.

This year the symposium will take a big picture look at some of the challenges facing malaria elimination progress: the hurdles of relapsing and simian malarias as well as limitations that *P. falciparum* elimination programs and high burden/high impact policies may face in reaching zero. Adding to complexity, all those working toward elimination will have to anticipate and adjust to a changing climate and subsequent impacts.

Supported with funding from the Bill & Melinda Gates Foundation

CHAIR

Michele Spring
Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand

Abigail Pratt
Bill & Melinda Gates Foundation, Seattle, WA, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.

THE EMERGENCE OF ZOONOTIC MALARIA IN CHANGING LANDSCAPES: A THREAT TO MALARIA ELIMINATION

Kimberly Fornace
University of Glasgow, Glasgow, United Kingdom

1:15 p.m.

8-AMINOQUINOLINES TO ACCELERATE MALARIA ELIMINATION

G. Dennis Shanks
Australian Defence Force Malaria and Infectious Disease Institute (ADFMIDI), Brisbane, Australia

1:35 p.m.

THE ROAD TO MALARIA ELIMINATION-ACHIEVING SUCCESS THROUGH THE HIGH BURDEN, HIGH BURDEN APPROACH

Perpetua Uhomoibhl
National Malaria Elimination Programme-Nigeria, Abuja, Nigeria

1:55 p.m.

WHAT WILL CLIMATE CHANGE MEAN FOR MALARIA ELIMINATION?

Peter Gething
Curtin University and Telethon Kids Institute, Perth, Australia

Scientific Session 18

LIVE STREAMING

Global Health: Global Health Security and COVID-19

Convention Center - Room 6C (6th Floor)
Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR

Julie Pavlin
National Academies of Sciences, Engineering and Medicine, Bethesda, MD, United States

Clive Brown
Centers for Disease Control and Prevention, Atlanta, GA, United States

12:45 p.m.

PRESENTATION BY BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP RECIPIENT

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SEROEPIDEMIOLOGY AND HOUSEHOLD TRANSMISSION OF COVID-19 AMONG MIGRANT FOOD PROCESSING AND FARM WORKERS IN NORTH CAROLINA

Michael Sciaudone[1], Melissa D. Klein[2], David Richardson[1], Colleen M. McClean[3], Roberto Lacayo[1], Oksana Kharabora[1], Alana J. Markmann[1], Allison E. Aiello[1], Ross M. Boyce[1], Jonathan J. Juliano[1], Natalie M. Bowman[1], The COFF-NC Working Group[4]
[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Duke University, Durham, NC, United States, [3]Duke Univeristy, Durham, NC, United States, [4]Chapel Hill, NC, United States

1 p.m.

552

HIGH SARS-COV-2 SEROPREVALENCE AND RAPID NEUTRALIZING ANTIBODY DECLINE AMONG WORKERS AT A LARGE AGRIBUSINESS IN RURAL GUATEMALA, JUNE 2020-MARCH 2021

Chelsea Iwamoto[1], Kelsey Lesteberg[2], Molly M. Lamb[3], Diva M. Calvimontes[4], Kejun Guo[2], Bradley S. Barrett[2], Kaylee L. Mickens[2], Lindsey M. Duca[1], Jose Carlos Monzon[5], Anna N. Chard[1], Gerber Guzman[4], Edgar Barrios[4], Neudy Rojop[4], Kareen Arias[4], Melissa Gomez[4], Claudia Paiz[4], Guillermo A. Bolanos[4], Kathryn Edwards[6], Emily Zielinski-Gutierrez[5], Eduardo Azziz-Baumgartner[1], Edwin J. Asturias[2], Mario Santiago[2], J. D. Beckham[2], **Daniel Olson**[2]
[1]Center for Disease Control and Prevention, Atlanta, GA, United States, [2]University of Colorado School of Medicine, Aurora, CO, United States, [3]Colorado School of Public Health, Aurora, CO, United States, [4]Fundacion para la Salud Integral de los Guatemaltecos, Retalhuleu, Guatemala, [5]Center for Disease Control and Prevention, Guatemala City, Guatemala, [6]Vanderbilt University School of Medicine, Nashville, TN, United States

1:15 p.m.

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EXCESSIVE EXPOSURE TO SARS-COV-2 REVEALED THROUGH COMMUNITY SERO-EPIDEMIOLOGICAL SURVEYS IN SOTHERN MOZAMBIQUE, FROM MAY 2021 TO FEBRUARY 2022

Arsenia Joana Massinga[1], Rita Ernesto[1], Áuria De Jesus[1], Augusto Messa Jr.[1], Felizarda Nhacolo[1], Khátia Munguambe[1], Alcido Timana[1], Sonia Enosse[2], Arsénio Nhacolo[1], Caterina Guinovart[3], Alfredo Mayor[3], Inácio Mandomando[1]
[1]Centro de Investigação em Saúde de Manhiça, Manhiça, Mozambique, [2]Instituto Nacional de Saúde, Marracuene, Mozambique, [3]ISGLOBAL, Hospital Clinic, Barcelona, Spain

1:30 p.m.

554

MONITORING THE INCIDENCE OF ACUTE FEBRILE ILLNESS HOSPITALIZATION AND DEATH AMONG THE GENERAL POPULATION IN VELLORE DURING THE COVID 19 PANDEMIC A COHORT STUDY

Vinu Vanathayan, Reshma Raju, Joseph Jovin Stanley, Origanti Sharon Nikitha, Winsley Rose
Christian Medical College Vellore, Vellore, India

1:45 p.m.

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COVID-19 VACCINE ATTITUDES AND ACCEPTANCE AMONG REFUGEES VERSUS LEBANESE NATIONALS PRE- AND POST-VACCINE INTRODUCTION IN LEBANON

Zawar Ali[1], Shiromi M. Perera[1], **Stephanie C. Garbern**[2], Elsie Abou Diwan[3], Alaa Othman[3], Javed Ali[1], Nada Awada[3]
[1]International Medical Corps, Washington, DC, United States, [2]Alpert Medical School of Brown University, Providence, RI, United States, [3]International Medical Corps, Beirut, Lebanon

2 p.m.

556

TRENDS OF INFLUENZA ACTIVITY DURING THE COVID-19 PANDEMIC IN GHANA, 2020

Ivy A. Asante[1], Yaw Awuku-Larbi[1], Stephen O. Nyarko[1], Gifty Mawuli[1], Richard A. Obeng[1], Esinam Amenuvor[1], Mildred Adusei-Poku[1], Linda Boatemaa[1], Vanessa Magnusen[1], Jennifer Wutsika[1], Samuel Ago[1], Loretta Kwasah[1], Roberta Tackie[1], Juliet Wordui[1], Daniel Mingle[2], William Asiedu[2], Edward O. Nyarko[2], Dennis Laryea[3], Franklin Asiedu-Bekoe[3], Shirley Nimo-Paintsil[4], Naiki Attram[4], Anne T. Fox[4], **Terrel Sanders**[4], William K. Ampofo[1]
[1]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]Ghana Armed Forces, 37 Military Hospital, Accra, Ghana, [3]Ghana Health Service, Ministry of Health, Accra, Ghana, [4]US Naval Medical Research Unit No. 3 Ghana Detachment, Accra, Ghana

2:15 p.m.

557

IMPACT OF ANTIGEN TEST TARGET FAILURE AND TESTING STRATEGIES ON THE TRANSMISSION OF SARS-COV-2 VARIANTS

Bethan N. Cracknell Daniels[1], Claudia Del Vecchio[2], Giuseppina Brancaccio[2], Alessandra Rosalba Brazzale[2], Enrico Lavezzo[2], Constanze Ciavarella[1], Francesco Onelia[3], Elisa Franchin[3], Laura Manuto[2], Federico Bianca[2], Vito Cianci[3], Anna Maria Cattelan[3], Ilaria Dorigatti[1], Stefano Toppo[2], Andrea Crisanti[1]
[1]Imperial College London, London, United Kingdom, [2]University of Padua, Padua, Italy, [3]Padua University Hospital, Padua, Italy

Symposium 19

From the Panama Canal to the Pantanal: Investigating Diversity, Dynamics, Drivers and Deterrents of Emerging Zoonotic Arboviruses in the Neotropics

Convention Center - Room 6E (6th Floor)

Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

Arthropod-borne viruses circulating in wildlife pose a high risk of emergence, especially in regions of high biodiversity such as the Neotropics. Despite this recognized threat, zoonotic arboviruses in the region have received relatively little study. This neglect is due in part to the diversity of potential hosts and vectors, the difficulty of accessing some classes of hosts, such as non-human primates, and the "umbrella" effect in which the transmission of common arboviruses, like dengue virus, obscures occasional human infections with less well-known arboviruses. The speakers in this symposium will describe their investigations into the diversity and dynamics of zoonotic arboviruses in Panama and Brazil. Further, they will consider the potential impact of factors, such as land cover change, that may promote the emergence of these viruses into human transmission as well as other factors, such as cross-immunity, that may impede emergence. Different speakers will focus on understudied hosts (sloths), host samples (carcasses), and viruses (orthobunyaviruses, among others).

CHAIR

Kathryn A. Hanley
New Mexico State University, Las Cruces, NM, United States

Nikos Vasilakis
UTMB Health, Galveston, TX, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
INVESTIGATING THE DYNAMICS OF RECENT YELLOW FEVER OUTBREAKS IN BRAZIL

Betania Drumond
Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

1:10 p.m.
ROCIO AND ILHEUS: UPDATED VIEWS ON ELUSIVE ARBOVIRUSES IN BRAZIL

Mauricio L. Nogueira
Faculdade de Medicina de Sao Jose do RIo Preto, Sao Jose do RIo Preto, Brazil

1:25 p.m.
SEROPREVALENCE OF ARBOVIRUS AND ZOONOTIC PARASITES IN SLOTHS FROM WEST PANAMA

Sandra L. Lopez-Verges
Gorgas Memorial Institute of Health Studies, Panama, Panama

1:40 p.m.
ENZOOTIC BUNYAVIRUSES: IMPLEMENTATION OF A ONE HEALTH BASED APPROACH FOR EMERGING ARBOVIRUS SURVEILLANCE IN PANAMA

Jean Paul Gonzalez
Gorgas Memorial Institute of Health Studies, Panama City, Panama

Scientific Session 20

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Protozoans - Cellular and Molecular Parasitology

Convention Center - Room 602/603/604 (6th Floor)

Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Gigliola Zhangi
Seattle Children's Hospital, Seattle, WA, United States

Johanna Daily
Albert Einstein Medical Center, New York, NY, United States

12:45 p.m. **1843**

WHAT CAN WE LEARN ABOUT THE SUBCELLULAR ORGANISATION OF P. FALCIPARUM USING U-EXM?

Benjamin Liffner[1], James Blauwkamp[1], Ana Karla Cepeda Diaz[2], Sonja Frölich[3], David Anaguano-Pillajo[4], Vasant Muralidharan[4], Danny Wilson[3], Jeffrey Dvorin[5], Sabrina Absalon[1]

[1]Department of Pharmacology and Toxicology, Indiana University School of Medicine, Indianapolis, IN, United States, [2]Biological and Biomedical Sciences, Harvard Medical School, Boston, MA, United States, [3]Research Centre for Infectious Diseases, School of Biological Sciences, University of Adelaide, Adelaide, Australia, [4]Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States, [5]Division of Infectious Diseases, Boston Children's Hospital, Boston, MA, United States

1 p.m. **1844**

A POSITIVE FEEDBACK LOOP CONTROLS CHRONIC-STAGE DIFFERENTIATION IN TOXOPLASMA

Haley Licon[1], Christopher J. Giuliano[1], Sundeep Chakladar[1], Julia N. Eberhard[2], Julia N. Eberhard[2], Lindsey A. Shallberg[2], Benjamin S. Waldman[3], Christopher A. Hunter[2], Sebastian Lourido[1]

[1]Whitehead Institute, Cambridge, MA, United States, [2]University of Pennsylvania, Philadelphia, PA, United States, [3]Stanford University, Stanford, CA, United States

1:15 p.m. **558**

THE TRANSCRIPTION FACTOR MYB-M DRIVES MALE COMMITMENT IN THE PARASITE CRYPTOSPORIDIUM

Katelyn A. Walzer, Jayesh Tandel, Jessica Byerly, Jodi A. Gullicksrud, Eoin Whelan, Elise Krespan, Daniel P. Beiting, Boris Striepen
University of Pennsylvania, Philadelphia, PA, United States

(ACMCIP Abstract)

1:30 p.m. **559**

***IN VIVO* ASSESSMENT OF *PLASMODIUM VIVAX* CHESSON STRAIN LIVER STAGE INFECTION: NOVEL STUDIES TO ASSESS HYPNOZOITE FORMATION, PERSISTENCE, ACTIVATION, AND RELAPSE**

Gigliola Zanghi[1], Sumana Chakravarty[2], Hardik Patel[1], Stephen L. Hoffman[2], B. Kim Lee Sim[2], Stefan H.I. Kappe[1], Ashley M. Vaughan[1]

[1]Seattle Children's, Seattle, WA, United States, [2]Sanaria Inc, Rockville, MD, United States

(ACMCIP Abstract)

Monday October 31

1:45 p.m. **560**

SICA-MEDIATED CYTOADHESION OF *PLASMODIUM KNOWLESI*-INFECTED RED BLOOD CELLS TO HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS

Huai Chuang[1], Miako Sakaguchi[2], Lucky Amuza Byaruhanga[1], Junya Yamagishi[3], Yuko Katakai[4], Satoru Kawai[5], Osamu Kaneko[1]
[1]Protozoology department, Nekken, Nagasaki University, Nagasaki, Japan, [2]Central Laboratory, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan, [3]Research Center for Zoonosis Control, Hokkaido University, Sapporo, Japan, [4]The Corporation for Production and Research of Laboratory Primates, Tsukuba, Ibaraki, Japan, [5]Department of Tropical Medicine and Parasitology, Dokkyo Medical University, Tochigi, Japan

2 p.m. **561**

DIFFERENCES IN GENE ESSENTIALITY BETWEEN *PLASMODIUM KNOWLESI* AND *PLASMODIUM FALCIPARUM* REVEALED BY PIGGYBAC SATURATION MUTAGENESIS

Jenna Oberstaller[1], Shulin Xu[1], Min Zhang[1], Deboki Naskar[2], Chengqi Wang[1], Thomas D. Otto[3], Julian C. Rayner[2], **John H. Adams**[1]
[1]University of South Florida, Tampa, FL, United States, [2]University of Cambridge, Cambridge, United Kingdom, [3]University of Glasgow, Glasgow, United Kingdom

(ACMCIP Abstract)

2:15 p.m. **562**

A MODULAR CLONING SYSTEM FOR HIGH EFFICIENCY PRODUCTION OF *PLASMODIUM FALCIPARUM* TRANSFECTION VECTORS

Kyle Jarrod McLean, Jacquin C. Niles
Massachusetts Institute of Technology, Cambridge, MA, United States

(ACMCIP Abstract)

Scientific Session 21

Schistosomiasis II: Epidemiology and Control

Convention Center - Room 605/610 (6th Floor)
Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR

Andrew Edielu
London School of Hygiene & Tropical Medicine Uganda Research Unit, Entebbe, Uganda

Sophie Pach
London School of Hygiene & Tropical Medicine, London, United Kingdom

12:45 p.m. **563**

LIVER ULTRASOUND FINDINGS IN PRESCHOOL CHILDREN FROM THE PRAZIQUANTEL IN PRESCHOOLERS (PIP) TRIAL IN LAKE ALBERT, UGANDA

Sophie Pach[1], Emily Webb[1], Andrew Edielu[2], Hannah Wu[3], Susannah Colt[3], Joachim Richter[4], Patrice Mawa[2], Jennifer Friedman[3], Amaya Bustinduy[1]
[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]MRC Uganda and London School of Hygiene and Tropical Medicine, Entebbe, Uganda, [3]Lifespan Center for International Health Research & Brown University, Providence, RI, United States, [4]Charité - Universitätsmedizin Berlin Institute of Tropical Medicine and International Health, Berlin, Germany

1 p.m. **564**

GUT MORBIDITY AMONG PRE-SCHOOL CHILDREN WITH S. MANSONI INFECTION IN ALBERTINE REGION, WESTERN UGANDA

Andrew Edielu[1], Susannah Colt[2], Emily Webb[3], Patrice Mawa[1], Hannah Wu[2], Racheal Nakyesige[4], Ayebazibwe Gloria Kakoba[4], Amaya Bustinduy[3], Jennifer F. Friedman[5]
[1]MRC Uganda and London School of Tropical Hygiene and Medicine, Entebbe, Uganda, [2]Lifespan Center for International Health Research and Brown University, Providence, RI, United States, [3]London School of Tropical Hygiene and Medicine, London, United Kingdom, [4]MRC Uganda, Entebbe, Uganda, [5]Lifespan Center for Internaitonal Health Research and Brown University, Providence, RI, United States

1:15 p.m. **565**

MULTILOCUS PCR-DNA SEQUENCE TYPING SCHEME TO INVESTIGATE HYBRIDIZATION IN SCHISTOSOMA HAEMATOBIUM

Oluwaremilekun G. Ajakaye[1], Egie E. Enabulele[2], Joshua Balogun[3], Oyetunde Oyeyemi[4], Adamu Dagona[5], Gagman Haladu[6], Michael Lapand[7], Ombugadu Akwashiki[8], Michael E. Grigg[9]
[1]National Institute of Health, NIAID, Bethesda, MD, United States, [2]Biomedical Research Institute, San Antonio, TX, United States, [3]Federal University, Dutse, Dutse, Nigeria, [4]University of Medical Sciences, Ondo, Nigeria, [5]Federal University, Gashua, Gashua, Nigeria, [6]Bauchi State University, Gadua, Nigeria, [7]University of Jos, Jos, Nigeria, [8]Federal University of Lafia, Lafia, Nigeria, [9]National Institutes of Health, NIAID, Bethesda, MD, United States

(ACMCIP Abstract)

1:30 p.m. **566**

RELATIONSHIPS BETWEEN SCHISTOSOMA MANSONI INTENSITY AND NUTRITIONAL STATUS AMONG PRESCHOOL-AGED CHILDREN IN UGANDA

Susannah Colt[1], Andrew Edielu[2], Emily L. Webb[3], Patrice A. Mawa[4], Hannah W. Wu[1], Racheal Nakyesige[2], Amaya L. Bustinduy[3], Jennifer F. Friedman[1]
[1]Lifespan Center for International Health Research, Providence, RI, United States, [2]London School of Hygiene and Tropical Medicine Uganda Research Unit, Entebbe, Uganda, [3]London School of Hygiene and Tropical Medicine, London, United Kingdom, [4]Uganda Virus Research Institute, Entebbe, Uganda

1:45 p.m. **567**

LIVER AND BLADDER MORBIDITY IN AN S. MANSONI AND S. HAEMATOBIUM CO-ENDEMICITY AREA IN THE DEMOCRATIC REPUBLIC OF CONGO

Sylvie Linsuke[1], Clémentine Roucher[2], Joule Madinga[1], Mamy-Irène Miantenzila[3], Sylvain Baloji[4], Jean-Pierre Van Geertruyden[5], Katja Polman[2], Pascal Lutumba[6]
[1]National Institute of Biomedical Research (INRB), Kinshasa, Democratic Republic of the Congo, [2]Unit of Medical Helminthology, Biomedical Department, Institute of Tropical Medicine, Antwerp, Belgium, [3]Department of Radiology, University of Kinshasa, Kinshasa, Democratic Republic of the Congo, [4]Programme National de Lutte Contre la Trypanosomiase Humaine Africaine (PNLTHA), Kinshasa, Democratic Republic of the Congo, [5]Global Health Institute, Faculty of Medicine, University of Antwerp, Antwerp, Belgium, [6]Department of Tropical Medicine, University of Kinshasa, Kinshasa, Democratic Republic of the Congo

2 p.m. **568**

OPTIMIZING THE USE OF PRAZIQUANTEL FOR PLANNING PREVENTIVE CHEMOTHERAPY CAMPAIGN AGAINST SCHISTOSOMA INFECTION IN SENEGAL: RESULTS FROM COMMUNITY LEVEL ANALYSIS

Khadime Sylla[1], Bocar Diop[2], NDeye MBacke Kane[2], Oumou Kaltome Boh[2], Babacar Gueye[2], Mady Ba[3], Malang Mane[4], Boniface Ekoue Kinvi[5], Honora Gustave Zoure[5], Jorge Cano Ortega[5], Pauline Mwinzi[5], Moussa Sacko[6], Babacar Faye[1]
[1]University Cheikh Anta Diop (UCAD), Dakar, Senegal, [2]Ministry of Health, Dakar, Senegal, [3]World Health Organization, Dakar, Senegal, [4]USAID's Act to End NTDs | West, Dakar, Senegal, [5]ESPEN / World Health Organization, Brazzaville, Republic of the Congo, [6]Institut National de Santé Publique, Bamako, Mali

2:15 p.m. 569

NOVEL RESAMPLING METHOD TO STRENGTHEN ACCURACY AND PRECISION OF SCHISTOSOMIASIS DIAGNOSTICS TO GUIDE MASS DRUG ADMINISTRATION PROGRAMS

David Gurarie[1], Nathan C. Lo[2], Martial Ndeffo-Mbah[3]
[1]Case Western Reserve University, Cleveland, OH, United States, [2]Division of HIV, Infectious Diseases, and Global Medicine, University of California, San Francisco, San Francisco, CA, United States, [3]Texas A&M University, College Station, TX, United States

Symposium 22

Caring for Afghan Evacuees to the United States: An Historic Public Health and Clinical Care Challenge in Humanitarian Relief and Resettlement

Convention Center - Room 606/607 (6th Floor)
Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

On August 30, 2021, the last United States airplane left Afghanistan. Seemingly overnight, the US undertook an historic airlift that brought to safety US citizens, lawful permanent residents (LPRs), Afghans who hold Special Immigrant Visas (SIVs), and vulnerable Afghans and their families, many of whom worked for or alongside the US in Afghanistan. Since that time, Operation Allies Welcome, in concert with multiple partners, has welcomed and processed 122,000 Afghan evacuees through international and US military bases, with the last evacuees leaving US military bases in February, 2022. From a public health and clinical care of US bound refugee populations perspective, this airlift was truly unprecedented. Because of the emergency nature of the evacuation, routine refugee health examinations, international screening and pre-departure medical treatment of refugees was not able to be conducted. The typical refugee journey to a country of first asylum, followed often by living for years in a refugee camp, then interview and medical processing to come to the US did not occur. The US had to mount a massive public health and medical care response at US military bases abroad and domestically. States had to quickly gear back up to accept evacuees from the US bases, challenging health care delivery at these destinations in new ways; this in the context of severe cuts to refugee health admissions and programs during the previous administration. This symposium will feature both public health and clinical aspects of caring for Afghan evacuees, within the context of refugee resettlement processes across many countries. After an overview of the historic nature of the conflict, detailed information on the public health challenges of caring for Afghans at Joint Base McGuire Dix Lakehurst will be offered, including a surge in vaccine preventable diseases such as chicken pox and measles, tuberculosis, and malaria. A unique public private academic response to receiving and initially caring for Afghans in Minnesota will be described. Lessons learned and best practices that promote and protect the health equity and human rights of vulnerable populations will be emphasized. Lastly, clinical aspects of malaria and leishmaniasis in Afghanistan and among evacuees will be reviewed by internationally recognized experts. Participants will be given links to newly developed on line cultural and academic resources which will help them prepare for caring for this latest group of refugees/asylees to arrive in the US.

CHAIR

Patricia F. Walker
University of Minnesota, St Paul, MN, United States

Nathan Bertelsen
University of Minnesota Global Medicine, Barcelona, Spain

12:45 p.m.
INTRODUCTION

12:55 p.m.
EXPERIENCES AND CHALLENGES IN PHYSICAL AND MENTAL HEALTH IN WORKING WITH ASYLUM SEEKERS AND REFUGEES FROM AFGHANISTAN: LESSONS FROM GREECE

Apostolos Veizis
Intersos Hellas, Athens, Greece

1:15 p.m.
PUBLIC HEALTH ISSUES IN CARE FOR AFGHANS AT A US MILITARY BASE

Andrea Shahum
International SOS Government Medical Services in partnership with Iqarus, McGuire AFB, NJ, United States

1:35 p.m.
CARING FOR AFGHAN ARRIVALS IN MINNESOTA: A UNIQUE PUBLIC PRIVATE AND ACADEMIC PARTNERSHIP

Brett R. Hendel Paterson
University of Minnesota, Minneapolis, MN, United States

1:55 p.m.
CLINICAL ASPECTS OF LEISHMANIASIS AND MALARIA IN AFGHANISTAN AND AFGHAN REFUGEES

Naomi E. Aronson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Scientific Session 23

Mosquitoes: Molecular Genetics

Convention Center - Room 608/609 (6th Floor)
Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR

Kelli Barr
University of South Florida, Tampa, FL, United States

Fredros Oketch Okumu
Ifakara Heallth Institute, Ifakara, United Republic of Tanzania

12:45 p.m. 570

GENOME-WIDE SNPS ANALYSIS FOR TRACKING THE SPREAD OF ANOPHELES STEPHENSI IN EASTERN ETHIOPIA AND SOMALILAND

Jeanne N. Samake[1], Philip Lavretsky[2], Isuru Gunarathna[1], Solomon Yared[3], Dejene Getachew[4], Said Ali[5], Dereje Dengela[6], Meshesha Balkew[6], Sarah Zohdy[7], Seth R. Irish[7], Tamar E. Carter[1]
[1]Baylor University, Waco, TX, United States, [2]University of Texas at El Paso, El Paso, TX, United States, [3]Jigjiga University, Jigjiga, Ethiopia, [4]Dire Dawa University, Dire Dawa, Ethiopia, [5]Somaliland Ministry of Health Department, Hargeisa, Somalia, [6]PMI VectorLink Ethiopia Project, Abt Associates, Addis Ababa, Ethiopia, [7]U.S. President's Malaria Initiative, Entomology Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

1 p.m.

571

UNRAVELLING THE PHENOTYPIC AND GENOMIC DIVERGENCE WITHIN SUB-POPULATIONS OF THE MAJOR MALARIA VECTOR *ANOPHELES GAMBIAE*

Marilene M Ambadiang Mae[1], Caroline Fouet[1], Ashu Fred Ayukarah[1], Aditi Kulkarni[2], Veronique P. Beng[3], Charles Wondji[4], Sourav Roy[2], Colince Kamdem[1]
[1]Centre for Research in Infectious Diseases, Yaounde, Cameroon, [2]Department of Biological Sciences, University of Texas, El Paso, El Paso, TX, United States, [3]University of Yaounde 1, Yaounde, Cameroon, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

1:15 p.m.

572

SPECIATION WITHIN THE MALARIA-TRANSMITTING *ANOPHELES GAMBIAE* COMPLEX: HIGH-THROUGHPUT WHOLE GENOME SEQUENCING OF ADULT FEMALES PROVIDES EVIDENCE OF A NEW CRYPTIC TAXON IN FAR-WEST AFRICA

Beniamino Caputo[1], Carlo Maria De Marco[2], Verena Pichler[2], Jacob Tenessen[3], David Weetman[4], Alistair Miles[5], **Alessandra della Torre**[2]
[1]University of Rome Sapienza, Roma, Italy, [2]University of Rome Sapienza, Rome, Italy, [3]Harvard T.H. Chan School of Public Health, Harvard, MA, United States, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [5]University of Oxford, Oxford, United Kingdom

1:30 p.m.

573

CONTRASTING THE HERITABILITY AND GENETIC BASIS OF DENGUE AND CHIKUNGUNYA VIRUS SUSCEPTIBILITY IN *AEDES AEGYPTI*

Mario Novelo[1], Heverton LC Dutra[1], Matthew J. Jones[1], Scott L. Allen[2], Francesca D. Frentiu[3], Stephen F. Chenoweth[2], **Elizabeth Ann McGraw**[1]
[1]Pennsylvania State University, University Park, PA, United States, [2]The University of Queensland, Brisbane, Australia, [3]QUT, Brisbane, Australia

1:45 p.m.

574

AGO2 REGULATES AUTOPHAGY TO CONTROL MOSQUITO DEATH DURING ARBOVIRUS INFECTION

Shengzhang Dong, George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

2 p.m.

575

GENOMIC SIGNATURES OF SEXUAL SELECTION IN THE YELLOW FEVER MOSQUITO *AEDES AEGYPTI*

Claudia A. Wyer[1], Brian Hollis[2], Lauren J. Cator[1]
[1]Imperial College London, Ascot, United Kingdom, [2]University of South Carolina, Columbia, SC, United States

2:15 p.m.

576

AFRICAN CONVERSATIONS ABOUT GENE DRIVES: INSIGHTS FROM AFRICAN STAKEHOLDERS ON HOW GENE DRIVE MODIFIED MOSQUITOES CAN BENEFIT MALARIA CONTROL AND ELIMINATION EFFORTS

Fredros Oketch Okumu[1], Marceline F. Finda[1], Elijah Juma[2], Rhosheen Mthawanji[3], Michael Santos[4], David O'Brochta[4], Stephanie James[4]
[1]Ifakara Heallth Institute, Ifakara, United Republic of Tanzania, [2]PAMCA, Nairobi, Kenya, [3]Malawi Liverpool Wellcome Trust, Blantyre, Malawi, [4]Foundation for National Institute of Health, North Bethesda, MD, United States

Symposium 24

Zeroing in on the Infectious Reservoir in Areas of Declining Malaria Transmission in Sub-Saharan Africa

Convention Center - Room 611/612 (6th Floor)
Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

There is accumulating evidence that asymptomatic carriers contribute to the bulk of malaria transmission in SubSaharan Africa. In low transmission settings, much of the asymptomatic reservoir is submicroscopic, invisible to commonly used rapid tests. A better understanding of human-to-mosquito transmission from these low density infections can inform strategies for interrupting transmission. The first set of talks will describe the results of over 500 skin feeding assays carried out among asymptomatic parasite carriers in coastal Tanzania, where malaria transmission has declined over the past decade and more than half of asymptomatic infections are submicroscopic. PCR detection in the field allowed enrollment of those with submicroscopic parasitemia, an assessment of their infectivity to A. *gambiae*, and longitudinal follow-up over 4 weeks to examine natural history. Preliminary findings show an overall mosquito infectivity rate of ~23%, with transmission driven by a small number of "superspreaders", and transmission success from parasite and gametocyte densities at the limit of detection of PCR. Strategies to reduce the infectious reservoir range from early detection and treatment of symptomatic infections to mass screening and treatment (MSAT) and mass drug administration (MDA). The second set of talks will present findings from a cluster-randomized clinical trial that aimed to reduce the infectious reservoir in villages of low endemicity in The Gambia. Enhanced case management was implemented in eight villages that were subsequently randomized to receive either no additional interventions, weekly fever screening, MDA, or MSAT using high sensitivity RDTs. Molecular determination of parasite and gametocyte carriage and direct assessments of transmission to locally reared A. coluzzii allowed prospective assessment of the infectious reservoir. Preliminary findings indicate that both MSAT and MDA reduced the incidence of new infections. While all intervention arms observed reduced parasite carriage at the end of the season, MDA resulted in the largest impact on the human infectious reservoir during the transmission season. Interestingly, even in this low-endemic area, mosquito infections primarily occurred from asymptomatic infections. These two presentations will be followed by commentary from a bench scientist and malaria modeler with expertise in transmission biology. Kim Williamson will interpret the findings in light of what is known about gametocyte development and sequestration and discuss how new tools/assays can be applied to field studies. Joseph Challenger will discuss how presented findings can be used to refine models of human-to-mosquito transmission to predict the impact of interventions, such as transmission-blocking vaccines.

CHAIR

Jessica T. Lin
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Marta Moreno
London School of Hygiene and Tropical Medicine, London, United Kingdom

12:45 p.m.
INTRODUCTION

12:55 p.m.
HUMAN-TO-MOSQUITO TRANSMISSION FROM LOW DENSITY INFECTIONS IN COASTAL TANZANIA

Billy Ngasala
Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania

1:05 p.m.
HUMAN-TO-MOSQUITO TRANSMISSION FROM LOW DENSITY INFECTIONS IN COASTAL TANZANIA

Derrick Mathias
University of Florida, Vero Beach, FL, United States

1:15 p.m.
OBSERVATIONAL STUDIES ON THE HUMAN INFECTIOUS RESERVOIR IN A LOW ENDEMIC AREA IN THE GAMBIA

Harouna Soumare
MRC Unit The Gambia at London School of Hygiene & Tropical Medicine, Serekunda, Gambia

1:35 p.m.
OBSERVATIONAL STUDIES ON THE HUMAN INFECTIOUS RESERVOIR IN A LOW ENDEMIC AREA IN THE GAMBIA

Bakary Conteh
MRC Unit The Gambia at London School of Hygiene & Tropical Medicine, Serekunda, Gambia

1:45 p.m.
GAMETOCYTE DEVELOPMENT AND SEQUESTRATION: IMPLICATIONS FOR CHARACTERIZING THE INFECTIOUS RESERVOIR

Kim C. Williamson
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

1:55 p.m.
MODELING MALARIA TRANSMISSION AND TRANSMISSION-BLOCKING INTERVENTIONS

Joseph Daniel Challenger
Imperial College London, London, United Kingdom

Scientific Session 25

Ectoparasite-Borne Disease

Convention Center - Room 613/614 (6th Floor)
Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR

Collin O'Connor
State University of New York, University at Buffalo, Buffalo, NY, United States

Miranda Oakley
FDA, Silver Spring, MD, United States

12:45 p.m. **577**

ASSESSING RISK FOR TICK-BORNE DISEASE UNDER THE CONTEXT OF THE MODIFIABLE AREAL UNIT PROBLEM

Collin O'Connor
State University of New York, University at Buffalo, Buffalo, NY, United States

1 p.m. **578**

TRANSMISSION OF POWASSAN VIRUS BY THE INVASIVE ASIAN LONGHORNED TICK, HAEMAPHYSALIS LONGICORNIS, UNDER LABORATORY CONDITIONS

Meghan Hermance[1], Wilson Raney[1], Ingeborg Langohr[2], Erik Herslebs[1], Madeline Stone[1]
[1]University of South Alabama, Mobile, AL, United States, [2]Louisiana State University, Baton Rouge, LA, United States

1:15 p.m. **579**

THE ROLE OF TICKS AND RODENTS IN THE TRANSMISSION AND EXPANSION OF TICK-BORNE FLAVIVIRUSES IN NORTHWESTERN EUROPE

Julian W. Bakker[1], Emily Pascoe[1], Hein Sprong[2], Helen Esser[3], Jeroen Kortekaas[4], Fred de Boer[3], Gorben Pijlman[5], Paul Wichgers Schreur[4], Sander Koenraadt[1]
[1]Wageningen University, Laboratory of Entomology, Wageningen, Netherlands, [2]National Institute of Public Health and the Environment (RIVM), Bilthoven, Netherlands, [3]Wageningen University, Wildlife ecology and conservation, Wageningen, Netherlands, [4]Wageningen Bioveterinary Research, Wageningen, Netherlands, [5]Wageningen University, Laboratory of Virology, Wageningen, Netherlands

1:30 p.m. **580**

HOST BLOODMEAL PREFERENCES DIFFER BETWEEN LARVAL AND NYMPHAL DEER TICKS

Heidi Goethert[1], Thomas Mather[2], Sam Telford[1]
[1]Tufts Cummings School of Veterinary Medicine, Grafton, MA, United States, [2]University of Rhode Island, Kingston, RI, United States

1:45 p.m. **581**

PERSISTENCE OF PLAGUE IN RODENTS AND FLEAS IN FOCI WITH WIDESPREAD ANTHROPOGENIC LAND USE IN THE CENTRAL HIGHLANDS OF MADAGASCAR FOR < AND FOR >

Soanandrasana Rahelinirina[1], Mireille Harimalala[1], Fanohinjanaharinirina Rasoamalala[1], Mamy Gabriel Randriamanantsoa[2], Romain Girod[1], Minoarisoa Rajerison[1]
[1]Institut Pasteur de Madagascar, Antananarivo, Madagascar, [2]National Plague Control Program, Ministry of Public Health, Antananarivo, Madagascar

2 p.m. **582**

CARDIAC COMPLICATIONS OF HUMAN BABESIOSIS

Jane O'Bryan[1], Anne Spichler Moffarrah[2], Emily Ong[2], Peter J. Krause[2]
[1]Frank H. Netter MD School of Medicine at Quinnipiac University, North Haven, CT, United States, [2]Yale School of Medicine, New Haven, CT, United States

2:15 p.m. **583**

AN IMMUNOLOGICAL ATLAS OF BABESIA MICROTI PRIMARY INFECTION AND REINFECTION IMMUNITY IN BALB/C MICE

Miranda Oakley, Scott Meredith, Demerise Johnston, Victoria Majam, Hong Zheng, David S. Rotstein, Sanjai Kumar
FDA, Silver Spring, MD, United States

Scientific Session 26

Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Interventions

Convention Center - Room 615/616/617 (6th Floor)

Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR

Christine Marie George
Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

Andrew N. Mertens
University of California Berkeley, Berkeley, CA, United States

12:45 p.m. 584

LINKS BETWEEN WATER, SANITATION AND HYGIENE INTERVENTIONS, ENVIRONMENTAL CONTAMINATION, CHILD ENTERIC INFECTIONS AND GROWTH: AN INDIVIDUAL PARTICIPANT DATA META-ANALYSIS

Andrew Mertens[1], Benjamin F. Arnold[2], Jade Benjamin-Chung[3], Alexandria B. Boehm[3], Joseph Brown[4], Drew Capone[4], Thomas Clasen[5], Erica Fuhrmeister[6], Jessica Grembi[3], David Holcomb[4], Jacqueline Knee[7], Laura Kwong[1], Audrie Lin[1], Stephen P. Luby[3], Rassul Nala[8], Kara Nelson[1], Sammy Njenga[9], Clair Null[5], Amy J. Pickering[1], Mahbubur Rahman[10], Heather Reese[5], Lauren Steinbaum[3], Jill Stewart[4], Ruwan Thilakaratne[1], Oliver Cumming[7], John Colford[1], Ayse Ercumen[11]

[1]UC Berkeley, Berkeley, CA, United States, [2]UC San Francisco, San Francisco, CA, United States, [3]Stanford University, Palo Alto, CA, United States, [4]University of North Carolina, Chapel Hill, NC, United States, [5]Emory University, Atlanta, GA, United States, [6]University of Washington, Seattle, WA, United States, [7]London School of Tropical Medicine and Hygiene, London, United Kingdom, [8]Ministry of Health, Maputo, Mozambique, [9]Kenya Medical Research Institute, Nairobi, Kenya, [10]icddr,b, Dhaka, Bangladesh, [11]North Carolina State University, Raleigh, NC, United States

1 p.m. 585

UNDERSTANDING THE DRIVERS OF THE WASH BENEFITS BANGLADESH TRIAL RESULTS: HYPOTHESES AND ESTIMATES FROM AN INFECTIOUS DISEASE TRANSMISSION MODEL

Andrew F. Brouwer[1], Marisa C. Eisenberg[1], Kevin M. Bakker[1], Savannah N. Boerger[1], Mondal H. Zahid[1], Matthew C. Freeman[2], Joseph N.S. Eisenberg[1]

[1]University of Michigan, Ann Arbor, MI, United States, [2]Emory University, Atlanta, GA, United States

1:15 p.m. 586

REDUCED DIARRHEA PREVALENCE, IMPROVEMENTS IN HANDWASHING WITH SOAP AND STORED DRINKING WATER QUALITY ASSOCIATED WITH AWARENESS MEASURED BY INTERACTIVE VOICE RESPONSE (IVR) MESSAGES IN A WATER, SANITATION AND HYGIENE CHOBI7 MOBILE HEALTH PROGRAM

Md Sazzadul Islam Bhuyian[1], Kelly Endres[2], Jamie Perin[2], Fatema Zohura[1], Jahed Masud[1], Tahmina Parvin[1], Ismat Minhaj Uddin[1], Tasdik Hasan[1], Shirajum Monira[1], David A. Sack[2], A.S.G Faruque[1], Munirul Alam[1], Christine Marie George[2]

[1]International Centre for Diarrhoeal Disease Research, Bangladesh(icddr,b), Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1:30 p.m. 587

RANDOMIZED CONTROLLED TRIAL OF THE CHOBI7 CHOLERA RAPID RESPONSE PROGRAM TO REDUCE DIARRHEAL DISEASES IN BANGLADESH

Christine Marie George[1], Tahmina Parvin[2], Md Sazzadul Islam Bhuyian[2], Ismat Minhaj Uddin[2], Fatema Zohura[2], Jahed Masud[2], Shirajum Monira[2], Jamie Perin[1], Munirul Alam[2], A.S.G Faruque[2]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh(icddr,b), Dhaka, Bangladesh

1:45 p.m. 588

EFFECT OF A BEHAVIOUR CHANGE AND HARDWARE INTERVENTION ON SAFE CHILD FECES MANAGEMENT PRACTICES IN RURAL ODISHA, INDIA: A CLUSTER-RANDOMISED CONTROLLED TRIAL

Gloria Sclar[1], Valerie Bauza[1], Alokananda Bisoyi[1], Hans-Joachim Mosler[2], Thomas Clasen[1]

[1]Rollins School of Public Health, Emory University, Atlanta, GA, United States, [2]Department of Psychology, University of Zürich, Zurich, Switzerland

2 p.m. 590

SYSTEM PERFORMANCE OF A DECENTRALIZED NATURE-BASED APPROACH TO WASTEWATER TREATMENT IN LMIC INFORMAL SETTLEMENTS

Kerrie Burge[1], Andi Zulkifli Agussalim[2], Fitriyanty Awaluddin[2], Fiona Barker[1], Peter Breen[1], Thomas Clasen[3], Matthew French[1], Brett Davis[1], Diego Ramirez[1], Maghfira Saifuddaolah[2], Allison Salinger[3], Sheela Sinharoy[3], Ruzka Taruc[2], Tony Wong[1], Zainal Zainal[2], Karin Leder[1]

[1]Monash University, Melbourne, Australia, [2]Hasanuddin University, Makassar, Indonesia, [3]Rollins School of Public Health, Emory University, Atlanta, GA, United States

Symposium 27

Financial Incentive Strategies to Improve Quality of Care in the Private Health Sector - Lessons from HIV, Newborn Care and Malaria Case Management

Convention Center - Room 618/619/620 (6th Floor)

Monday, October 31, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

The private sector is an important component of many health systems across the globe and is often the first consult and primary source of care for acute illness including fever, diarrhea, and acute respiratory infection. The private sector consists of a diverse group of providers and encompasses any facility, outlet, or individual that provides health services, yet is not managed by a government. Studies have demonstrated significant gaps in quality of care delivered through private providers, stemming partly from limited exposure to or use of updated treatment and diagnostic guidelines, poor access to or uptake of quality-assured commodities, and demand-driven interactions with clients. These deficiencies can contribute to low adherence to appropriate clinical algorithms and widespread use of substandard medicines, jeopardizing public health targets for disease control and prevention. Globally, it is not possible to reach key public health targets, including universal health coverage, without engaging the private sector. Engagement must include attention to the quality of services delivered through this diverse constellation of private providers.

Interventions targeting quality of services in the private sector often borrow approaches designed for the public sector. These activities may achieve some degree of success during small-scale phases; however, little evidence exists about their sustainable or scalable contributions to service delivery. At a fundamental level, differences in motivation that influence behaviors of public versus private providers (and their patients) should be considered in the design and approach to private-sector interventions. By tailoring interventions to align with the business model of private providers or creating incentives in line with their business performance that ultimately improve quality of services, durable and positive behavior changes can be effected that improve health outcomes. One strategy is provision of financial incentives and using prices as instruments to promote value for health spending. Pricing schemes go beyond covering costs by influencing service provision toward preferred behavior without undermining profitability. Pricing, payment systems, and incentive frameworks can be powerful tools that incentivize delivery of quality care and drive broader health system goals.

CHAIR

Wendy Prudhomme-O'meara
Duke Global Health Institute, Durham, NC, United States

Meley Woldeghebriel
Clinton Health Access Initiative, Dorchester, MA, United States

12:45 p.m.
INTRODUCTION

12:55 p.m.
INCENTIVE-BASED APPROACHES TO PROMOTE HIV PREVENTION AND TREATMENT BEHAVIORS

Harsha Thirumurthy
University of Pennsylvania, Philadelphia, PA, United States

1:15 p.m.
INCENTIVES TO PRIVATE INDIAN CLINICS TO IMPROVE MATERNAL AND CHILD HEALTH OUTCOMES

Manoj Mohanan
Cohesive India, Durham, NC, United States

1:35 p.m.
DIGITAL APPROACHES TOWARDS INTEGRATION OF MALARIA TEST AND TREAT FINANCING WITHIN UHC

Angela Siteyi
PharmAccess, Nairobi, Kenya

1:55 p.m.
VISION AND EXPERIENCES OF USING FINANCIAL INCENTIVES IN PRIVATE SECTOR CASE MANAGEMENT INITIATIVES IN UGANDA

Jimmy Opigo
National Malaria Control Division, Kampala, Uganda

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Monday, October 31, 2:15 p.m. - 3:15 p.m. U.S. Pacific Time Zone

Coffee Break

Convention Center - Hall 4BC (4th Floor)
Monday, October 31, 2:30 p.m. - 3 p.m. U.S. Pacific Time Zone

Scientific Session 28

LIVE STREAMING Malaria: Improving the Evidence Base for Strategies to Eliminate Malaria

Convention Center - Room 6AB (6th Floor)
Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

CHAIR

Kim Lindblade
PATH, Seattle, WA, United States

Bakar S. Fakih
Swiss Tropical and Public Health Institute, Allschwil near Basel, Switzerland

3 p.m. 591

EVALUATING TRADE-OFFS BETWEEN LOCAL AND GLOBAL PRIORITIES FOR THE CONTROL OF MALARIA

Daniela Olivera Mesa, Peter Winskill, Katharina Hauck, Azra Ghani
Imperial College London, London, United Kingdom

3:15 p.m. 592

CHARACTERISTICS OF TRAVEL FROM ZANZIBAR TO TANZANIA MAINLAND AND THE ASSOCIATED RISK OF MALARIA INFECTION

Bakar S. Fakih[1], Aurel Holzschuh[2], Amanda Ross[1], Logan Stuck[3], Abdul-Wahid Al-Mafazy[4], Abdullah Ali[5], Cristian Koepfli[2], Joshua Yukich[3], Günther Fink[1], Manuel W. Hetzel[1]
[1]Swiss Tropical and Public Health Institute, Allschwil, Switzerland, [2]Department of Biological Sciences, Eck Institute for Global Health, University of Notre Dame, Indiana, IN, United States, [3]Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA, United States, [4]Research Triangle Institute (RTI) International, Zanzibar, United Republic of Tanzania, [5]Zanzibar Malaria Elimination Programme, Zanzibar, United Republic of Tanzania

3:30 p.m. 593

SINGLE LOW DOSE TAFENOQUINE COMBINED WITH DIHYDROARTEMISININ-PIPERAQUINE TO REDUCE *P. FALCIPARUM* TRANSMISSION: A PHASE 2 SINGLE BLIND RANDOMIZED CLINICAL TRIAL IN OUELESSEBOUGOU, MALI

Almahamoudou Mahamar[1], Merel J. Smit[2], William Stone[3], Koualy Sanogo[1], Youssouf Sinaba[1], Sidi M. Niambele[1], Adama Sacko[1], Sekouba Keita[1], Oumar Dicko[1], Makonon Diallo[1], Seydina Maguiaga[1], Siaka Samake[1], Oumar Attaher[1], Kjerstin Lanke[2], Rob ter Heine[2], John Bradley[3], Matthew B. B. McCall[2], Djibrilla Issiaka[1], Sekou F. Traore[1], Teun Bousema[2], Chris Drakeley[3], Alassane Dicko[1]
[1]Malaria Research and Training Centre, Bamako, Mali, [2]Radboud UMC, Nijmegen, Netherlands, [3]London School of Hygiene and Tropical Medicine, London, United Kingdom

3:45 p.m. 594

ASSESSMENT OF PRIMAQUINE UTILIZATION IN FOUR ETHIOPIAN HEALTH FACILITIES IN THE CONTEXT OF ETHIOPIA'S MALARIA ELIMINATION STRATEGY

Belete Ayalneh[1], Fikreslassie Alemu[1], Fikadu Deme[1], Gudissa Assefa[2], Elias Geremew[1], Helen Tesfaye[1], Sami Tewfik[1], Edmealem Ejigu[1], Tesfaye Seifu[1], Tsion Demissie[3], Yoseph Wakoya[1], Asrat Abate[1], Chalachew Bayu[1], Dagne Bililigne[1]
[1]USAID Global Health Supply Chain Program-Procurement and Supply Management project, Addis Ababa, Ethiopia, [2]Ethiopian Disease Prevention and Control Directorate, Ministry of Health, Addis Ababa, Ethiopia, [3]USAID Health Office in Ethiopia, PMI, Addis Ababa, Ethiopia

4 p.m. 595

ACTIVE SCREENING AND TREATMENT SIGNIFICANTLY REDUCES THE INFECTIOUS RESERVOIR OF MALARIA IN BURKINA FASO

Katharine A. Collins[1], Alphonse Ouedraogo[2], Wamdaogo Moussa Guelbeogo[2], Issiaka Soulama[2], Maurice Ouattara[2], Apollinaire Nombre[2], Amidou Diarra[2], John Bradley[3], Prashanth Selvaraj[4], Jaline Gerardin[5], Chris Drakeley[6], Teun Bousema[1], Alfred Tiono[2]
[1]Department of Medical Microbiology, Radboud university medical center, Nijmegen, Netherlands, [2]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [3]MRC Tropical Epidemiology Group, London School of Hygiene and Tropical Medicine, London, United Kingdom, [4]Institute for Disease Modeling, Bellevue, WA, United States, [5]Department of Preventive Medicine, Northwestern University, Chicago, IL, United States, [6]Department of Immunology and Infection, London School of Hygiene and Tropical Medicine, Faculty of Infectious and Tropical Diseases, London, United Kingdom

4:15 p.m. 596

EFFECTIVENESS OF REACTIVE FOCAL MASS DRUG ADMINISTRATION FOR MALARIA IN THAILAND DURING THE COVID-19 PANDEMIC

Adam Bennett[1], Jintana Chaiwan[2], Timothy Finn[3], Chris Cotter[3], Michelle S. Hsiang[3], Suravadee Kitchakarn[2], Cheewanan Lertiriyasuwat[2], Prayuth Sudathip[2]
[1]PATH, Seattle, WA, United States, [2]Division of Vector Borne Diseases, Bangkok, Thailand, [3]UCSF Malaria Elimination Initiative, San Francisco, CA, United States

4:30 p.m. 597

FEASIBILITY AND EFFECTIVENESS OF TARGETED MALARIA INTERVENTIONS FOR HIGH-RISK POPULATIONS IN SENEGAL

Tidiane Thiam[1], Demba Kande[1], Henry Ntuku[1], Caterina Guinovart[1], Laura Merriman[1], Sarah Gallalee[2], Abiboulaye Sall[1], Moustapha Cissé[1], Aichatou Barry Diouf[3], Mamadou Diop[3], Baba Camara[3], Niene Seck[3], Yakou Dieye[1], Jennifer Smith[2], Adam Bennett[4]
[1]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Dakar, Senegal, [2]University of California, San Francisco, Malaria Elimination Initiative, San Francisco, CA, United States, [3]Ministère de la Santé et de l'Action Sociale (Department of Health and Social Action), Dakar, Senegal, [4]PATH MACEPA/University of California, San Francisco, MEI, Seattle, WA, United States

Symposium 29

LIVE STREAMING

ASTMH Committee on Global Health (ACGH) Symposium I: Role of Women in Advancing Global Health

Convention Center - Room 6C (6th Floor)

Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

Women play significant roles in the advancement of global health and have the potential to increase their contributions to improving diseases outcomes, such as ending malaria and NTDs. While women constitute half of the world population and make up more than two-thirds of the Global Health workforce, they occupy less than one-fourth of the most influential leadership positions. Their contribution to health systems is monumental as competent and qualified women exist for global health leadership positions, yet women are left with few opportunities to advance Global Health. This creates an inequitable Global Health that impacts the health of all. The COVID-19 pandemic has laid bare what a health shock does to devastate lives, disrupting health systems and economies with gendered multifold impacts. Research has shown that reducing the widened gender inequities from Global Health would be worth around $28 trillion to the global economy, increasing 26%. In global health, women contribute roughly around $3 trillion to global health. However, this depends on "including and supporting women, putting women at the center of the Global Health. Greater gender equality in global health leadership will be vital in addressing global health challenges. Gender equality in global health leadership is economically sound. Recent studies show that achieving gender parity, but nearly half of this (2.35% of global GDP) is unpaid and unrecognized. Following the Kigali Summit in Malaria and NTDs co-organized by the RBM Partnership to End Malaria and the Uniting to Combat NTDs, this symposium will discuss the role of women in Global Health with focus on Malaria and NTDs, highlighting the significant contributions made by Women in Global Health, discussing roles and opportunities for women in Global Health today and sketching avenues of future inquiry and work on the topic.

CHAIR

Corine K. Karema
RBM Partnership to End Malaria, Kigali, Rwanda

Njeri Wamae
KNGWECC, Nairobi, Kenya

3 p.m.
INTRODUCTION

3:10 p.m.
IMPROVING CHALLENGES OF WOMEN IN GLOBAL HEALTH

Thoko Elphick-Pooley
Uniting to Combat NTDs, London, United Kingdom

3:25 p.m.
TRANSFORMATIVE WOMEN LEADERSHIP IN MALARIA ELIMINATION

Allison Tatarsky
University of California, San Francisco, CA, United States

3:45 p.m.
ENDING NTDS: WOMEN IN GLOBAL HEALTH FOCUS/IMPACT OF WGH IN ENDING NTDS

Julie Jacobson
Bridges to Development, Seattle, WA, United States

3:55 p.m.
MAINSTREAMING GENDER EQUALITY: A CASE OF MALARIA VECTOR CONTROL

Damaris K. Matoke
Kenya Medical Research Institute, Nairobi, Kenya

4:10 p.m.
HOLISTIC APPROACH TO DEFINE GLOBAL HEALTH: THE CASE OF WOMEN IN MENTAL HEALTH

Vinita Sharma
Boise State University, Boise, ID, United States

4:25 p.m.
ACGH ANNUAL BUSINESS MEETING

Corine K. Karema
RBM Partnership to End Malaria, Kigali, Rwanda

Symposium 30

Latest Research with Policy Relevance for the Treatment and Prevention of Malaria in Pregnancy in the Most Vulnerable, High-Risk Groups in Sub-Saharan Africa

Convention Center - Room 6E (6th Floor)

Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

Malaria in pregnancy can have devastating consequences for the mother and pregnancy outcomes. Trials of malaria prevention in HIV-infected women: The World Health Organization (WHO) recommends intermittent preventive treatment (IPTp) with sulphadoxine-pyrimethamine (SP), starting from the second trimester of pregnancy, for the prevention of malaria in pregnancy in HIV-uninfected women. However, IPTp-SP is contraindicated in HIV-infected pregnant women taking daily cotrimoxazole (CTX) because of the potential added risk of adverse effects associated with taking two antifolate drugs simultaneously. Increasing resistance of the malaria parasite against SP and CTX now threatens the efficacy of IPTp-SP in HIV-uninfected women and of daily CTX in HIV-infected women. Trials in HIV-infected women with monthly mefloquine suggest that effective chemoprevention results in much greater malaria reduction than CTX alone. However, mefloquine was not well tolerated, and alternative antimalarials should be evaluated. Recent trials have shown that monthly chemoprevention with the long-acting dihydroartemisinin-piperaquine (DP) is well tolerated and highly effective in reducing malaria outcomes in HIV-negative women. This symposium will present new data from two multicentre trials of IPTp with DP to prevent malaria in HIV-infected pregnant women in areas of high SP resistance in Kenya and Malawi (IMPROVE-2), and in Gabon and Mozambique (MAMAH). Results from a meta-analysis on the impact of SP resistance on the efficacy of IPTp-SP will also be presented. Treatment of malaria with ACTs inf the first trimester: The current World Health Organization (WHO) guidelines for the treatment of uncomplicated malaria in the first trimester is a 7-day course of quinine with clindamycin, if available. Artemisinin-based combination therapies (ACTs) are the recommended first-line treatment in the second and third trimester and in all other patient groups. However, quinine has to be taken three times daily for seven days, is badly tolerated and is associated with low effectiveness because of poor adherence. Superior efficacy, effectiveness and tolerability of ACTs compared to quinine has been demonstrated in non-pregnant patients and women in the second and third trimesters of pregnancy. ACTs are not currently recommended for treatment in the first trimester due to concerns about the potential teratogenicity of the artemisinin class of compounds owing to the signals identified in animal studies. The results of an updated meta-analysis on the safety of artemisinin for the treatment of malaria in the first trimester will be presented.

CHAIR

Jenny Hill
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Hellen Barsosio
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

3 p.m.
INTRODUCTION

3:10 p.m.
CHEMOPREVENTION WITH MONTHLY INTERMITTENT PREVENTIVE TREATMENT WITH DIHYDROARTEMISININ-PIPERAQUINE FOR MALARIA IN HIV-INFECTED PREGNANT WOMEN TAKING DAILY COTRIMOXAZOLE IN KENYA AND MALAWI: A MULTICENTRE PLACEBO-CONTROLLED TRIAL (IMPROVE-2).

Hellen Barsosio
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

3:30 p.m.
EFFICACY AND SAFETY OF DIHYDROARTEMISININ-PIPERAQUINE FOR INTERMITTENT PREVENTIVE TREATMENT OF MALARIA AMONG HIV-INFECTED WOMEN FROM GABON AND MOZAMBIQUE: PRELIMINARY RESULTS OF A DOUBLE-BLINDED PLACEBO-CONTROLLED TRIAL (MAMAH STUDY).

Raquel Gonzalez
Barcelona Institute for Global Health, Barcelona, Spain

3:50 p.m.
EFFECT OF HIGH-GRADE SULFADOXINE-PYRIMETHAMINE RESISTANCE ON THE EFFICACY OF INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN PREGNANCY: A SYSTEMATIC REVIEW AND INDIVIDUAL PARTICIPANT DATA (IPD) META-ANALYSIS

Caroline Osoro
Stellenbosch University, Cape Town, South Africa

4:05 p.m.
EFFICACY, EFFECTIVENESS, AND SAFETY OF INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY (IPTP) WITH SULFADOXINE-PYRIMETHAMINE (SP) AMONG PREGNANT WOMEN IN SETTINGS OF VARYING LEVELS OF MALARIA TRANSMISSION AND PARASITE RESISTANCE TO SP: A META-ANALYSIS

Feiko O. ter Kuile
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

4:20 p.m.
FIRST-TRIMESTER TREATMENT WITH ARTEMISININ DERIVATIVES VERSUS NON-ARTEMISININ ANTIMALARIALS AND THE RISK OF ADVERSE PREGNANCY OUTCOMES IN AFRICA AND ASIA: UPDATED INDIVIDUAL PATIENT DATA META-ANALYSIS

Stephanie Dellicour
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Scientific Session 31

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Parasite Immunology

Convention Center - Room 602/603/604 (6th Floor)

Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

Supported with funding from the Burroughs Wellcome Fund

CHAIR

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

Clair Henthorn
University of Wisconsin - Madison, Madison, WI, United States

3 p.m. **1845**

UNDERSTANDING THE EFFECTS OF GLUTAMATE ON MGLUR+ CD8 T CELLS RECRUITED TO THE T. GONDII INFECTED BRAIN

Edward A. Vizcarra, Tyler Landrith, Emma H. Wilson

Division of Biomedical Sciences, School of Medicine, University of California, Riverside, CA, United States

3:15 p.m. **1846**

SUGAR MODIFICATIONS TO THE GPI REGULATE TOXOPLASMA GONDII VIRULENCE

Julia Alvarez[1], Jasmine Posada[1], Ferdinand Njume[1], Juan C. Sanchez-Arcila[1], Scott P. Souza[1], Elizabet Gas-Pascual[2], Christopher M. West[3], Kirk Dc Jensen[1]

[1]School of Natural Sciences, Department of Molecular and Cell Biology, University of California, Merced, Merced, CA, United States, [2]Department of Biochemistry and Molecular Biology, Center for Tropical and Emerging Global Diseases, and Complex Carbohydrate Research Center, University of Georgia, Athens, GA, United States, [3]Department of Biochemistry and Molecular Biology, Center for Tropical and Emerging Global Diseases, and Complex Carbohydrate Research Center, University of Georgia, Athens, GA, United States

3:30 p.m. **598**

IL-11 REGULATES MUCOSAL RESPONSES IN ACUTE PULMONARY HELMINTH INFECTION

Pablo Bara-Garcia[1], Jonah Kurpitz[1], Oyebola Oyesola[1], Fabricio Oliveira[2], Thomas B. Nutman[1], Pedro Gazzinelli-Guimaraes[1]

[1]NIAID, National Institutes of Health, Bethesda, MD, United States, [2]Federal University of Minas Gerais, Belo Horizonte, Brazil

(ACMCIP Abstract)

3:45 p.m. **599**

PHAGE SCREENING IDENTIFIED A NOVEL NEMATODE PAN ALLERGEN (NPA) RESPONSIBLE FOR IGE RESPONSES IN HUMAN FILARIAL TROPICAL PULMONARY EOSINOPHILIA (TPE)

Anand Setty Balakrishnan[1], Gnanasekar Munirathinam[1], Samuel Christopher Katru[1], Azadeh Hadadianpour[2], Scott Alan Smith[2], Ramaswamy Kalyanasundaram[1]

[1]University of Illinois at Chicago, College of Medicine, Rockford, IL, United States, [2]Vanderbilt University, Nashville, TN, United States

(ACMCIP Abstract)

4 p.m. **600**

INFLAMMASOME AND ROS SIGNALING CASCADES DURING MICROFILARIAE- AND THIRD STAGE LARVAE-INDUCED NEUTROPHIL AND EOSINOPHIL ETOSIS

Alexandra Ehrens[1], Celia Nieto[1], Nina Offermann[2], Frederic Risch[1], Marianne Koschel[1], Eicke Latz[3], Melania Capasso[2], Achim Hoerauf[1], Marc P. Hübner[1]

[1]University Hospital Bonn, Institute for Medical Microbiology, Immunology and Parasitology, Bonn, Germany, [2]German Center for Neurodegenerative Diseases (DZNE) within the Helmholtz Association, Immunregulation, Bonn, Germany, [3]University Hospital Bonn, Institute of Innate Immunity, Bonn, Germany

4:15 p.m. **601**

PRE-EXISTING ALLERGIC SENSITIZATION RESHAPES THE TRANSCRIPTIONAL AND FUNCTIONAL PROGRAMMING OF CD4 T CELLS IN HUMAN FILARIAL INFECTION

Pedro H. Gazzinelli-Guimaraes[1], Phillip Swanson[2], Brittany Dulek[3], Justin Lack[3], Mario Roederer[2], Thomas B. Nutman[1]

[1]Laboratory of Parasitic Diseases, NIAID, National Institutes of Health, Bethesda, MD, United States, [2]Vaccine Research Center, NIAID, National Institutes of Health, Bethesda, MD, United States, [3]NIAID Collaborative Bioinformatics Resource, NIH, Bethesda, MD, United States

(ACMCIP Abstract)

4:30 p.m. **602**

SINGLE-CELL APPROACHES TO DISSECTING *BRUGIA MALAYI* PARASITE-HOST-DRUG INTERACTIONS

Clair Henthorn, Paul Airs, Mostafa Zamanian
University of Wisconsin- Madison, Madison, WI, United States

Symposium 32

New Dual-AI Nets for Malaria Control in Settings of Vector Resistance: A Review of the Current Evidence

Convention Center - Room 605/610 (6th Floor)

Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

This symposium will examine the growing evidence base for the efficacy and cost-effectiveness of novel dual-AI ITNs in comparison to standard, pyrethroid only ITNs. There will be four key components: presenting the latest evidence of efficacy from two randomized control trials (Benin and Tanzania), presenting the latest evidence from the New Nets Project pilot evaluations (Burkina Faso, Mozambique, Rwanda, Nigeria, and Mali), discussion of the latest advances in mathematical modelling of vector control impact and cost-effectiveness, and a presentation highlighting key issues surrounding the market dynamics and anticipated demand for dual-AI ITNs. Taken together, the evidence assessed here will provide key information for malaria control programs, donors, policymakers, and other stakeholders for decision-making and planning future strategies on where these new tools are likely to be most effective - improving access, uptake, and utilization in varied operational contexts.

CHAIR

Scott J. Filler
The Global Fund, Geneva, Switzerland

Keziah L. Malm
Programme Manager of the National Malaria Programme, Ghana Health Service, Accra, Ghana

3 p.m.
INTRODUCTION

3:10 p.m.
EFFICACY OF TWO DUAL ACTIVE INGREDIENT INSECTICIDE-TREATED NETS, INTERCEPTOR G2 (PYRETHROID-CHLORFENAPYR) AND ROYAL GUARD (PYRETHROID-PYRIPROXYFEN), FOR MALARIA CONTROL IN BENIN: RESULTS FROM A CLUSTER-RANDOMIZED CONTROLLED TRIAL
Manfred Mario Kokou Accrombessi
LSHTM, based at CREC, Benin, Cotonou, Benin

3:35 p.m.
THE EFFECTIVENESS OF DUAL-AI ITNS DISTRIBUTED AT SCALE: EVIDENCE FROM THE NEW NETS PROJECT PILOTS IN WESTERN AFRICA
Adama Gansané
Centre National de Recherche et de Formation sur le Paludisme (CNRFP), Ouagadougou, Burkina Faso

3:50 p.m.
THE EFFECTIVENESS OF DUAL-AI ITNS DISTRIBUTED AT SCALE: EVIDENCE FROM THE NEW NETS PROJECT PILOTS IN EASTERN/SOUTHERN AFRICA
Baltazar Candrinho
Programa Nacional de controle da Malária, Ministério da Saude, Maputo, Mozambique

4:05 p.m.
INSIGHTS INTO RECENT ADVANCES IN VECTOR CONTROL IMPACT MODELLING: LINKAGES BETWEEN ENTOMOLOGICAL AND EPIDEMIOLOGICAL OUTCOMES AND UPDATES TO THE MALARIA INTERVENTION TOOL (MINT)
Thomas S. Churcher
Imperial College London, London, United Kingdom

4:20 p.m.
KEY ISSUES AROUND THE MARKET DYNAMICS AND DEMAND FOR DUAL-AI NETS AS MALARIA CONTROL PROGRAMS SCALE UP USE
Ioana Ursu
IVCC, Liverpool, United Kingdom

Symposium 33

LIVE STREAMING

Monkeypox: Perspectives on an Outbreak at the Confluence of Biology, Epidemiology and Social Narrative

Convention Center - Room 606/607 (6th Floor)
Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

In a world that continues to experience global infectious disease outbreaks, the current monkeypox outbreak brings into sharp focus familiar but persistent questions: How do we address narratives that hamper our ability to prevent and respond to viral outbreaks? How do we improve vaccine and treatment equity? What is the role of genomic surveillance? How do we prevent MPXV and other viruses from becoming established in human populations, and can we? Panelists will discuss the shared and distinct features of the epidemiology and public health response in different countries, MPXV phylogenetics and the need for new nomenclature, the ongoing risk of spillover into human populations, and issues of stigma and equity that have hampered our ability to both prevent and limit outbreaks.

CHAIR
Christian Happi
Redeemer's University, Ede, Osun State, Nigeria

CO-CHAIR/MODERATOR
Stephen Popper
University of California Berkeley School of Public Health, Berkeley, CA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
PERSPECTIVES FROM THE DEMOCRATIC REPUBLIC OF THE CONGO
Placide Mbala
Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo

3:25 p.m.
THE NEED FOR A NON-DISCRIMINATORY AND NON-STIGMATIZING NOMENCLATURE FOR MONKEYPOX VIRUS
Christian Happi
Redeemer's University, Ede, Osun State, Nigeria

3:40 p.m.
HEALTH DISPARITIES AND DISEASE AS SEEN IN U.S. SAN FRANCISCO MSM POPULATION
Amy Garlin
University of California Berkeley School of Public Health, Berkeley, CA, United States

3:55 p.m.
MONKEYPOX: THE UK'S EXPERIENCE OF A GLOBAL HEALTH PROBLEM, AND EFFORTS NEEDED TO SOLVE IT
Jake Dunning
Pandemic Sciences Institute, University of Oxford, Oxford, United Kingdom

Symposium 34

American Committee of Medical Entomology (ACME) Symposium I: Annual Business Meeting, Awards and Hoogstraal Medal Presentations and Networking Reception

Convention Center - Room 608/609 (6th Floor)
Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific 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 2021 SC Johnson (SCJ) Innovation and/or International Research Leaders Award. This serves in part to highlight the next generation of medical entomologists. The session moves to the presentation of the Hoogstraal Medal and a plenary lecture by the recipient. The symposium culminates with a social/networking session.

CHAIR
Douglas Norris
John Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Catherine A. Hill
Purdue University, West Lafayette, IN, United States

3 p.m.
INTRODUCTION

3:10 p.m.
ACME ANNUAL BUSINESS MEETING

Douglas Norris
John Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

3:30 p.m.
AWARDS: FUTURE LEADERS IN INTERNATIONAL RESEARCH AWARD, SC JOHNSON (SCJ) BREAKTHROUGH IN MEDICAL ENTOMOLOGY AWARD, AND ACME AWARD OF DISTINCTION

Douglas Norris
John Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

3:50 p.m.
HARRY HOOGSTRAAL MEDAL PRESENTATION AND PLENARY LECTURE

Ed Cupp
Emeritus Professor, Auburn University, Auburn, AL, United States

4:30 p.m.
CONCLUSION AND PASSING OF GAVEL

Douglas Norris
John Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4:35 p.m.
NETWORKING AND SOCIAL TIME

Scientific Session 35

Filariasis – Epidemiology and Control

Convention Center - Room 611/612 (6th Floor)
Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

CHAIR

Taniawati Supali
Universitas Indonesia, Jakarta, Indonesia

Lily Sullins
Drugs and Diagnostics for Tropical Diseases, San Diego, CA, United States

3 p.m. **603**

OCCURRENCE OF LYMPHATIC FILARIASIS INFECTION AFTER 15 YEARS OF MASS DRUG ADMINISTRATION IN TWO HOTSPOT DISTRICTS IN THE UPPER EAST REGION OF GHANA

Derrick Adu Mensah[1], Linda Batsa Debrah[1], Peter Akosah Gyamfi[2], Abu Abudu Rahamani[1], Vera Serwaa Opoku[1], John Boateng[1], Prince Obeng[1], Jubin Osei-Mensah[3], Inge Kroidl[4], Ute Klarmann-Schulz[5], Achim Hoerauf[5], Alexander Yaw Debrah[1]
[1]Kwame Nkrumah University of Science and Technology/Kumasi Center for Collaborative Research in Tropical Medicine, Kumasi, Ghana, [2]Kwame Nkrumah University of Science and Technology/Kumasi Center for Collaborative Research in Tropical Medicine/Faculty of Health Sciences, Garden City University College, Kumasi, Ghana, [3]4Department of Pathobiology, School of Veterinary Medicine, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana/Kumasi Center for Collaborative Research in Tropical Medicine, Kumasi, Ghana, [4]Division of Infectious Diseases and Tropical Medicine, Medical Center of the University of Munich (LMU), Germany/German Center for Infection Research (DZIF), partner site Munich, Germany, Munich, Germany, [5]Institute for Medical Microbiology, Immunology and Parasitology, University Hospital Bonn, Germany/German Center for Infection Research (DZIF), partner site Bonn-Cologne, Germany, Bonn, Germany

3:15 p.m. **604**

BAYESIAN NETWORK ANALYSIS PREDICTS ADDED VALUE OF LYMPHATIC FILARIASIS ANTIBODY TESTING IN POST-MDA SURVEILLANCE IN MANDALAY REGION, MYANMAR

Benjamin F R Dickson[1], Jesse Masson[1], Helen Mayfield[2], Khin Saw Aye[3], Kyi May Htwe[3], Maureen Roineau[1], Athena Andreosso[1], Stephanie Ryan[1], Luke Becker[1], Janet Douglass[1], Patricia M. Graves[1]
[1]James Cook University, Cairns, Australia, [2]The University of Queensland, Brisbane, Australia, [3]Department of Medical Research, Ministry of Health and Sports, Yangon, Myanmar

3:30 p.m. **605**

GLOBAL ENVIRONMENTAL SUITABILITY OF LYMPHATIC FILARIASIS TRANSMISSION

Mustafa Sikder, Cathleen Keller, Ewerton Cousin, Joanna Whisnant, Lydia Plante, Olivia Nesbit, Steph Zimsen, Taren Gorman, Trent Yarosevich, Jonathan F. Mosser
Institute for Health Metrics and Evaluation, Seattle, WA, United States

3:45 p.m. **606**

CHARACTERIZATION OF AN IGG4/OV16 RAPID TEST TO DETECT EXPOSURE TO O. VOLVULUS INFECTIONS

Adina Gerson-Gurwitz[1], Marina Siirin[2], **Lily A. Sullins**[2], Maria J. Gonzalez-Moa[3], Bijan Pedram[3], Marco A. Biamonte[2]
[1]PLEXIUM, San Diego, CA, United States, [2]Drugs and Diagnostics for Tropical Diseases, San Diego, CA, United States, [3]Sapphire Biotech, San Diego, CA, United States

4 p.m. **607**

SIGNIFICANT PROGRESS TOWARDS ELIMINATING LYMPHATIC FILARIASIS AS A PUBLIC HEALTH PROBLEM IN SOUTHEASTERN NIGERIA

Emmanuel Emukah[1], Cephas Ityonzughul[2], Abel Eigege[3], Adamu Sallau[3], Emily Griswold[4], Emmanuel Miri[3], Emmanuel Davies[5], Michael Nse Akpan[5], Perpetua Amodu-Agbi[5], Stella Obiukwu[6], Emmanuel Obikwelu[7], Joseph Oduma[8], Solomon Offor[9], Ifeoma Otiji[10], Gregory S. Noland[4]
[1]The Carter Center, Owerri, Nigeria, [2]The Carter Center, Benin City, Nigeria, [3]The Carter Center, Jos, Nigeria, [4]The Carter Center, Atlanta, GA, United States, [5]Federal Ministry of Health, Abuja, Nigeria, [6]NTDs Unit, Department of Public Health, Ministry of Health, Owerri, Imo state, Owerri, Nigeria, [7]NTDs Unit, Department of Public Health & Disease Control, Ministry of Health, Anambra State, Awka, Nigeria, [8]State Ministry of Health, Ebonyi, Nigeria, [9]NTDs Unit, Department of Public Health & Disease Control, Ministry of Health Umuahia, Abia State, Umuahia North, Nigeria, [10]NTDs Unit, Department of Public Health & Disease Control, Enugu State Ministry of Health, Enugu State, Enugu, Nigeria

4:15 p.m. **608**

DETECTION OF *BRUGIA MALAYI* ELEVEN YEARS AFTER STOPPING MASS DRUG ADMINISTRATION TO ELIMINATE LYMPHATIC FILARIASIS IN BELITUNG DISTRICT, INDONESIA

Taniawati Supali[1], Yenny Djuardi[1], Mr Santoso[2], Lita Renata Sianipar[3], Solihah Widyastuti[3], Nungki Hapsari Suryaningtyas[2], Rahmat Alfian[1], Yossi Destani[1], Femmy Pical[3], Sulfa Esi Warni[2], Elisa Iskandar[1], Hendri Astuty[1], Noviani Sugianto[1], Peter Fischer[4]
[1]Universitas Indonesia, Jakarta, Indonesia, [2]Directorate General of Communicable Disease and Environmental Health, Indonesia Ministry of Health, Jakarta, Indonesia, [3]National Institute of Health Research and Development (NIHRD), Ministry of Health of Indonesia, South Sumatera, Indonesia, [4]Washington University School of Medicine, St. Louis, MO, United States

4:30 p.m. 609

REPURPOSING CANINE HEARTWORM RAPID DIAGNOSTIC TESTS FOR HUMAN LYMPHATIC FILARIASIS

Marina Siirin[1], Keri Robinson[2], Maria J. Gonzalez-Moa[3], Kimberly Y. Won[2], Marco Biamonte[3]
[1]Drug and Diagnostics for Tropical Diseases, San Diego, CA, United States, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Drug and Diagnostics for Tropical Dseases, San Diego, CA, United States

Symposium 36

Neglected Tropical Diseases at Home: Soil-Transmitted Helminths and the Lack of Adequate Sanitation in Rural, Underserved Communities in the Southeastern United States

Convention Center - Room 613/614 (6th Floor)
Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

Soil transmitted helminths (STH) are intestinal nematodes of humans transmitted through contact with or ingestion of contaminated soil. STH traditionally include roundworms (Ascaris lumbricoides), hookworms (Necator americanus and Ancylostoma duodenale), and whipworms (Trichuris trichiura). These parasites inhabit the intestine in infected humans and the eggs are shed in the stool; if the stool is introduced into the environment, other people may come into contact with it allowing for continued transmission. Globally, STH infections primarily affect children and can cause physical stunting as well as cognitive deficits. STH infections were once widespread across the American South, but deworming campaigns in the early 1900s and infrastructure improvements were thought to have eradicated them. Yet, the socioeconomic and environmental conditions favorable for transmission persist in many areas. Many homes in rural, underserved, and largely minority communities lack proper sanitation systems. The soil type in some of these areas requires a specialized system which is prohibitively expensive for many residents, so they must resort to other measures including "straight-piping" where waste is carried directly from the home to the yard via a pipe and deposited there. Other communities may simply lack access to systems or lack the means to maintain them. This issue of poor sanitation and the health effects it can cause in marginalized communities in the United States has drawn increased attention in recent years. Surveillance efforts to determine the prevalence and identify potential risk factors for STH have been carried out by academic partners, with support from the U.S. Centers for Disease Control and Prevention (CDC), in Alabama and Mississippi in targeted areas at risk. These types of STH studies, commonly conducted elsewhere in the world, are rarely performed in the United States. Academic partners in Texas are conducting environmental studies of STH and other parasites of human health concern in some of these same areas as well as additional areas focused on marginalized populations. This symposium will present the results of these efforts, including sampling methodologies, laboratory methods to detect STH infections in clinical and environmental samples, results and challenges, and highlight important next steps for action based on the data collected. According to the United Nations, access to adequate sanitation is considered a human right, not a privilege (https://www.un.org/sustainabledevelopment/water-and-sanitation/); the lack of access to adequate sanitation in marginalized communities in the United States is a health equity issue.

CHAIR
Anne Straily
US Centers for Disease Control and Prevention, Atlanta, GA, United States

3 p.m.
INTRODUCTION

3:05 p.m.
UNDERAPPRECIATED BURDENS IN MISSISSIPPI'S CHILDREN
Charlotte Hobbs
Children's of Mississippi, University of Mississippi Medical Center, Jackson, MS, United States

3:25 p.m.
SANITATION AND HEALTH IN ALABAMA'S BLACK BELT – PART 1: STUDY DESIGN, SURVEY FINDINGS, AND LESSONS LEARNED
Claudette Poole
University of Alabama at Birmingham, Birmingham, AL, United States

3:45 p.m.
SANITATION AND HEALTH IN ALABAMA'S BLACK BELT – PART 2: PATHOGEN PREVALENCE AND RISK FACTORS
Joe Brown
Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

4:05 p.m.
A ONE HEALTH APPROACH OF PARASITES IN THE SOUTHERN USA AND ASSOCIATION WITH POVERTY
Rojelio Mejia
Baylor College of Medicine, Houston, TX, United States

Scientific Session 37

Water, Sanitation, Hygiene and Environmental Health (WaSH-E): Outcomes

Convention Center - Room 615/616/617 (6th Floor)
Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

CHAIR
Heather M. Murphy
University of Guelph, Guelph, ON, Canada

Rehnuma Haque Sarah
icddrb, Dhaka, Bangladesh

3 p.m. 610

RISK FACTORS ASSOCIATED WITH EXTENSIVELY DRUG-RESISTANT (XDR) TYPHOID IN AN OUTBREAK SETTING OF LYARI TOWN KARACHI, PAKISTAN

Farah Naz Qamar, Rabab Batool, Sonia Qureshi, Mohammad Tahir Yousafzai, Miqdad Ali
Aga Khan University Hospital, Karachi, Pakistan

3:15 p.m.

611

ASSOCIATION BETWEEN WASH INDICATORS AND SELF REPORTED CHILDHOOD DEATHS IN RURAL COMMUNITIES OF THE PERUVIAN AMAZON BASIN

Evelyn R. Munayco[1], John M. Nesemann[2], Jeremy D. Keenan[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]University of California, Los Angeles, CA, United States, [3]University of California, San Francisco, CA, United States

3:30 p.m.

612

INFLUENCE OF COMMUNITY-LEVEL SANITATION COVERAGE AND POPULATION DENSITY ON ENVIRONMENTAL FECAL CONTAMINATION AND CHILD HEALTH IN A LONGITUDINAL COHORT IN RURAL BANGLADESH

Jesse Doyle Contreras[1], Mahfuza Islam[2], Andrew Mertens[3], Amy J. Pickering[3], Laura H. Kwong[3], Benjamin F. Arnold[4], Jade Benjamin-Chung[5], Alan E. Hubbard[3], Mahfuja Alam[2], Debashis Sen[2], Sharmin Islam[2], Mahbubur Rahman[2], Leanne Unicomb[2], Stephen P. Luby[5], John M. Colford, Jr.[3], Ayse Ercumen[1]
[1]North Carolina State University, Raleigh, NC, United States, [2]icddr,b, Dhaka, Bangladesh, [3]University of California, Berkeley, Berkeley, CA, United States, [4]University of California, San Francisco, San Francisco, CA, United States, [5]Stanford University, Stanford, CA, United States

3:45 p.m.

613

HOW FREQUENTLY DO COMMUNITY LATRINES NEED TO BE CLEANED? A STUDY IN KATHMANDU, NEPAL

Heather M. Murphy[1], Alexis Mraz[2], Shannon McGinnis[3], Prakash Amatya[4], Dianna Marini[5]
[1]University of Guelph, Guelph, ON, Canada, [2]The College of New Jersey, Ewing, NJ, United States, [3]Temple University, Philadelphia, PA, United States, [4]Aerosan Toilets, Kathmandu, Nepal, [5]Aerosan Toilets, Halifax, NS, Canada

4 p.m.

614

DIARRHEAL DISEASE AWARENESS IS ASSOCIATED WITH CAREGIVER HANDWASHING WITH SOAP IN THE DEMOCRATIC REPUBLIC OF THE CONGO (REDUCE PROGRAM)

Lucien Bisimwa[1], Kelly Endres[1], Camille Williams[1], Elizabeth D Thomas[1], Jennifer Kuhl[1], Nicole Coglianese[2], Sarah Bauler[2], Jahed Masud[3], Ruthly François[1], Ronald Saxton[1], Presence Sanvura[1], Jean Claude Bisimwa[1], Patrick Mirindi[2], Alain Mwishingo[1], Jamie Perin[1], Christine Marie George[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Food for the Hungry, Washington, DC, United States, [3]International Centre for Diarrhoeal Disease Research, Bangladesh(icddr,b), Dhaka, Bangladesh

4:15 p.m.

615

INVESTIGATING THE EFFICACY OF VARIOUS HANDWASHING METHODS AGAINST ENVELOPED AND NON-ENVELOPED VIRUSES

Claire E. Anderson[1], Jingyan Tong[1], Winnie Zambrana[1], Alexandria Boehm[1], Marlene Wolfe[2]
[1]Stanford University, Palo Alto, CA, United States, [2]Emory University, Atlanta, GA, United States

4:30 p.m.

616

DETECTING SARS-COV-2 LINEAGES IN BANGLADESH: LESSONS FROM WASTEWATER-BASED EPIDEMIOLOGY

Rehnuma Haque Sarah[1], Mohammad Enayet Hossain[2], Mahbubur Rahman[1], Nuhu Amin[1], Mohammed Ziaur Rahman[2]
[1]Environmental Interventions Unit, icddr,b, 68 Shaheed Tajuddin Ahmed Sarani, Mohakhali, Dhaka, Bangladesh, [2]One Health Laboratory, icddr,b, 68 Shaheed Tajuddin Ahmed Sarani, Mohakhali, Dhaka, Bangladesh

Symposium 38

The Benefits of Electronic Data Collection to Improve Information and Decision-Making for Disease Elimination and Eradication Programs

Convention Center - Room 618/619/620 (6th Floor)
Monday, October 31, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

Timely, accurate, and geolocated data are needed to support global health programmatic decision-making. Disease elimination and eradication programs have adopted the use of electronic data collection (EDC) to reach programmatic goals, respond to end game challenges, and accurately document program implementation. EDC can be used throughout the program life span from mass drug administration (MDA) or preventative chemotherapy monitoring to disease prevalence surveys and surveillance systems for active case detection and response. EDC allows programs to receive data from remote field sites in near real-time, allowing quick analysis through dashboards and provision of timely feedback and decisions to prevent programmatic implementation delays and disease spread. The data controls and validation checks integrated in an EDC can help ensure accurate data entry and lessen data cleaning burdens. Geolocated data from EDC can allow for linkages to other information sources and can lead to improved micro-planning and implementation. This symposium aims to share experiences from four countries that have adopted various EDC processes to reach their program goals. The Government of Chad's Guinea Worm Eradication Program, with support from The Carter Center, has integrated EDC to enhance the management and use of surveillance, epidemiologic, and program implementation data. The Zanzibar Malaria Elimination Program (ZAMEP), uses EDC for rapid malaria case notification and response. The system receives new malaria case alerts from existing reporting systems and guides users through the response protocol for case investigation, reactive case detection and case classification. The Guyana Ministry of Public Health has adopted EDC for Lymphatic Filariasis (LF) stop-MDA and surveillance surveys, allowing for rapid results review and sample adjustment when teams are in the country's extremely remote areas. Furthermore, the program has leveraged EDC to assist in the collection of dried blood spots which were later tested for malaria which has allowed for wider disease surveillance from a single field survey activity. The Haiti National Program for the Elimination of LF, with the support of RTI International, has leveraged EDC across its program in response to challenges related to inaccurate population denominators, deployment of community drug distributors, allocation of distribution posts, and delayed coverage reporting during MDA. Program data was collected with EDC for a pre-MDA census in targeted districts, MDA treatment and supervision data, and surveillance survey results. These four EDC activities highlight the breadth of applications of EDC in disease elimination and eradication programs across different countries, diseases, and program contexts.

CHAIR

Clara Burgert-Brucker
RTI International, Washington, DC, United States

Martha Saboya
Pan American Health Organization, Washington, DC, United States

3 p.m.
INTRODUCTION

3:10 p.m.
LEVERAGING ELECTRONIC DATA TO ADVANCE THE INTERRUPTION OF GUINEA WORM TRANSMISSION IN CHAD AND ENHANCE GLOBAL ERADICATION EFFORTS

Maryann Delea
The Carter Center, Atlanta, GA, United States

3:20 p.m.
STRATEGIC USE OF HEALTH INFORMATION SYSTEMS TOWARDS MALARIA ELIMINATION IN ZANZIBAR

Abdul-wahid Habib Al-mafazy
RTI International supporting Zanzibar Malaria Elimination Programme, Zanzibar, United Republic of Tanzania

3:30 p.m.
LF ELIMINATION SURVEYS AND MORE IN GUYANA

Reza Niles-Robin
Guyana Ministry of Health, Gerogetown, Guyana

3:40 p.m.
EDC ACROSS THE LF PROGRAMMATIC LIFE SPAN FROM MDA TO SURVEYS IN HAITI

Alain Javel
RTI International, Petion Ville, Haiti

Poster Session A Dismantle

Convention Center - Room 4A (4th Floor)
Monday, October 31, 4 p.m. - 6:15 p.m. U.S. Pacific Time Zone

Break

Monday, October 31, 4:45 p.m. – 5:15 p.m. U.S. Pacific Time Zone

Scientific Session 39

LIVE STREAMING Malaria: Diagnosis - Challenges and Innovations

Convention Center - Room 6AB (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

This session does not carry CME credit.

CHAIR

Susanta K. Ghosh
National Institute of Malaria Research, Bangalore, India

Khalid B. Beshir
LSHTM, London, United Kingdom

5:15 p.m. **617**

HISTIDINE-RICH PROTEIN DELETION: TEMPORAL PREVALENCE IN UK TRAVELLER MALARIA PATIENTS AND GENOMIC STRUCTURE OF THE PFHRP/3-DELETED PARASITES

Khalid B. Beshir, Debbie Nolder, Lindsay Stewart, Deborah Ojutalayo, Jody Phelan, Susana Campino, Colin Sutherland
LSHTM, London, United Kingdom

5:30 p.m. **618**

ADDITION OF HUMAN SERUM OR ALBUMAX TO GLYCEROLYTE BEFORE CRYOPRESERVING *PLASMODIUM FALCIPARUM* INCREASES PARASITE YIELD AFTER THAWING

Stephen Orena[1], Cassia Wagner[2], Oswald Byaruhanga[1], Martin Okitwi[1], Patrick Tumwebaze[1], Thomas Katairo[1], Martin Chamai[1], Simon Tumwebaze[1], Trevor Bedford[3], Melissa Conrad[4], Philip J. Rosenthal[4], Bryan Greenhouse[3]
[1]Infectious Disease Research Collaboration, Kampala, Uganda, [2]University of Washington, Seattle, WA, United States, [3]Fred Hutchinson Cancer Research Center, Seattle, WA, United States, [4]University of California, San Francisco, CA, CA, United States

(ACMCIP Abstract)

5:45 p.m. **619**

THE MILAB™ PLATFORM, A FULLY AUTOMATED ON-SITE DIAGNOSTIC SYSTEM WITH ARTIFICIAL INTELLIGENCE FOR MALARIA

Byeong-il Kang[1], Seunghee Han[1], DongShik Ham[1], Hye-jin Hwang[1], Jin-Hee Han[2], Douglas Lungu[3], Dongyoung Lee[1]
[1]Noul Co. Ltd., Yongin, Republic of Korea, [2]Kangwon National University, Chuncheon, Republic of Korea, [3]Wezi Medical Centre, Mzuzu, Malawi

6 p.m. **620**

PARASITAEMIA THRESHOLDS FOR DIAGNOSING PATIENTS WITH *P. VIVAX* MALARIA

Emily S. Groves[1], Nicholas M. Douglas[1], Benedikt Ley[1], Peta Edler[2], André Daher[3], Ayodhia P. Pasaribu[4], Dhelio B. Pereira[5], Kavitha Saravu[6], Julie A. Simpson[7], Ric N. Price[1], Robert J. Commons[1], on behalf of the WWARN *P. vivax* Fever Study Group[8]
[1]Global and Tropical Health Division, Menzies School of Health Research, Charles Darwin University, Darwin, Australia, [2]Department of Infectious Diseases, Peter Doherty Institute for Infection and Immunity, University of Melbourne, Melbourne, Australia, [3]Vice-presidency of Research and Biological Collections, Oswaldo Cruz Foundation (FIOCRUZ), Rio de Janeiro, Brazil, [4]Department of Child Health, Medical Faculty, Universitas Sumatera Utara, Medan, Indonesia, [5]Centro de Pesquisa em Medicina Tropical, CEPEM, Porto Velho, Brazil, [6]Department of Infectious Diseases, Kasturba Medical College, Manipal Academy of Higher Education, Manipal, India, [7]Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health, University of Melbourne, Melbourne, Australia, [8]

6:15 p.m. **621**

AISCOPE: CREATING THE BIGGEST OPEN CROWDSOURCED DATASET OF MICROSCOPY IMAGES FOR MALARIA AND OTHER INFECTIOUS DISEASES TO TRAIN ARTIFICIAL INTELLIGENCE ALGORITHMS

Eduardo Peire[1], Joris Borsboom[1], Rachael Kasaro[2], Ramón Pérez-Tanoira[3], Sandra del Pozo[1], Iñaki Alegria[4], Thuy-Huong Ta-Tang[5], Perdro Berzosa[5], Estrella Lasry[1], Vicenta González[5], Luz García[5], Laura Moro[1]
[1]AiScope, Barcelona, Spain, [2]National Malaria Elimination Center, Lusaka, Zambia, [3]Hospital Universitario Príncipe de Asturias y Universidad de Alcalá, Alcalá de Henares, Spain, [4]Gambo General Hospital, Oromiya, Ethiopia, [5]Malaria and Neglected Tropical Diseases Laboratory. CIBERINFEC, ISCIII-CIBER de Enfermedades Infecciosas, Instituto de Salud Carlos III, Madrid, Spain

6:30 p.m. 622

STATUS OF PFHRP2 AND PFHRP3 GENES DELETIONS IN *PLASMODIUM FALCIPARUM* PARASITES FROM A LARGE HEALTH FACILITY SURVEY: TANZANIA, 2021

Nastassia Battle[1], Catherine Bakari[2], Rashid Madebe[2], MIsago Seth[2], Dativa Pereus[2], Celine Mandara[2], Beatus Lymio[2], David Giesbrecht[3], Zachary Popkin-Hall[4], Ramadhan Moshi[2], Ruth Mbwambo[2], Bronwyn MacInnis[5], Raymond Kitengeso[2], Filbert Francis[2], Daniel Mbwambo[6], Issa Garimo[6], Frank Chacky[6], Sijenunu Aaron[6], Abdallah Lusasi[6], Fabrizio Molteni[7], Ritha Njau[8], Jane A. Cunningham[9], Samwel Lazaro[6], Ally Mohamed[6], Jonathan J. Juliano[4], Jeffrey A. Bailey[3], Udhayakumar Venkatachalam[1], **Eric Rogier**[1], Deus Ishengoma[2]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, [3]Brown University, Providence, CT, United States, [4]University of North Carolina, Chapel HIll, NC, United States, [5]Harvard T.H Chan School of Public Health, Boston, MA, United States, [6]National Malaria Control Programme, Dodoma, United Republic of Tanzania, [7]Swiss Tropical Public Health Institute, Dar es Salaam, United Republic of Tanzania, [8]World Health Organization, Dar es Salaam, United Republic of Tanzania, [9]World Health Organization, Geneva, Switzerland

6:45 p.m. 623

DEVELOPMENT AND EVALUATION OF A SIMPLIFIED MOLECULAR PLATFORM FOR THE DIAGNOSIS OF MALARIA

Henk Schallig, Norbert van Dijk, Sandra Menting, Petra Mens

Academic Medical Centre, Amsterdam, Netherlands

Scientific Session 40

LIVE STREAMING

Clinical Tropical Medicine: Diagnostics and Febrile Syndromes

Convention Center - Room 6C (6th Floor)

Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

This session does not carry CME credit.

CHAIR

Kyle Petersen
Uniformed Services University, Bethesda, MD, United States

Sara Ajanovic
IS Global, Barcelona, Spain

5:15 p.m. 624

CLINICAL EVALUATION OF THE BIOFIRE® GLOBAL FEVER PANEL PLUS

David S. Rabiger, Mark A. Gurling, Jared R. Helm, Wendy Smith, Pascal Belgique, Olivia Jackson, Michael Johnson, Alex Kelley, Hannah VanHollebeke, Sidney Webster, Ashley Wiltsie, Marianne Kim, Cynthia Phillips

BioFire Defense, Salt Lake City, UT, United States

5:30 p.m. 625

TAQMAN ARRAY CARD MULTIPLEX PCR PANEL TO DETECT PATHOGENS IN WHOLE BLOOD OF FEBRILE INPATIENTS IN NORTHERN TANZANIA, 2016-2019.

James Samwel Ngocho[1], Jie Liu[2], Nathaniel H. Kalengo[3], Kajiru G. Kilonzo[1], Grace Kinabo[1], Bingileki F. Lwezaula[4], Furaha Lyamuya[1], Annette Marandu[4], Ronald Mbwasi[1], Blandina T. Mmbaga[5], Calvin Mosha[4], Manuela Carugati[6], Deng B. Madut[7], John P. Bonnewell[8], Michael J. Maze[9], Venance P. Maro[1], John A. Crump[10], Eric R. Houpt[2], Matthew P. Rubach[6]

[1]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, [2]Department of Medicine, Division of Infectious Diseases and International Health, University of Virginia, Charlottesville, VA, United States, [3]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, [4]Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, [5]Kilimanjaro Clinical Research Institute, Moshi, United Republic of Tanzania, [6]Division of Infectious Diseases and International Health, Department of Medicine, Duke University Medical Center, Durham, NC, United States, [7]Duke Global Health Institute, Duke University, Durham, NC, United States, [8]Department of Pathology & Laboratory Medicine, Roswell Park Comprehensive Cancer Center, Buffalo, NY, United States, [9]Department of Medicine, University of Otago, Christchurch, New Zealand, [10]11Centre for International Health, University of Otago, Dunedin, New Zealand

5:45 p.m. 626

ETIOLOGY OF FEBRILE ILLNESSES ASSOCIATED WITH SEIZURES IN CHILDREN FROM LOW- AND MIDDLE-INCOME COUNTRIES: RESULTS FROM THE FIEBRE STUDY

Sara Ajanovic[1], Sham Lal[2], Polycarp Mogeni[2], Justina Bramugy[3], Marta Valente[1], Ioana Olaru[2], Manophab Lungraj[4], Vilayouth Phimolsarnnousith[4], Vilada Chansamouth[4], Mabvuto Chimenya[5], Edward Green[5], Nicholas Feasey[5], Audrey Dubot-Pérès[6], Mayfong Mayxay[4], Elizabeth Ashley[4], Paul Newton[7], Katharina Kranzer[2], Shunmay Yeung[2], Heidi Hopkins[2], David Mabey[2], Quique Bassat[1]

[1]Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, [2]London School of Hygiene and Tropical Medicine, London, United Kingdom, [3]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, [4]Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Mahosot Hospital, Vientiane, Lao People's Democratic Republic, [5]Malawi Liverpool Wellcome Programme, Blantyre, Malawi, [6]Unité des Virus Émergents (UVE: Aix-Marseille Univ-IRD 190-Inserm 1207), Marseille, France, [7]Centre for Tropical Medicine & Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom

6 p.m. 627

SIXTEEN YEARS OF PRIMARY CARE OBSERVATIONS REVEAL CASES OF AFEBRILE DENGUE AND DISTINGUISHING CHARACTERISTICS OF DENGUE, CHIKUNGUNYA, AND ZIKA

Fausto A. Bustos Carrillo[1], Sergio Ojeda[2], Nery Sanchez[2], Miguel Plazaola[2], Damaris Collado[2], Tatiana Miranda[2], Saira Saborio[2], Brenda Lopez Mercado[2], Jairo Monterrey[2], Leah Katzelnick[1], Douglas Elizondo[2], Sonia Arguello[2], Amy Schiller[3], Lora Campredon[3], Krista Latta[3], Aubree Gordon[3], Angel Balmaseda[4], Guillermina Kuan[5], Eva Harris[1]

[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Sustainable Sciences Institute, Managua, Nicaragua, [3]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, [4]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, [5]Centro de Salud Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua

6:15 p.m. 628

METAGENOMIC NEXT-GENERATION SEQUENCING OF NASOPHARYNGEAL SWABS IN ACUTE FEBRILE ILLNESS IN CAMBODIA

Christina Yek[1], Sreyngim Lay[2], Sophana Chea[2], Jennifer A. Bohl[3], Mengheng Oum[2], Sokna Ly[2], Ratanak Sath[2], Vida Ahyong[4], Cristina M. Tato[4], Heng Seng[5], Sovann Ly[5], Chanthap Lon[2], Jessica E. Manning[1]

[1]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, [2]International Center of Excellence in Research, National Institute of Allergy and Infectious Diseases, Phnom Penh, Cambodia, [3]Vaccine Research Center, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [4]Chan Zuckerberg Biohub, San Francisco, CA, United States, [5]Department of Communicable Disease, Ministry of Health, Phnom Penh, Cambodia

6:30 p.m. 629

BUILDING DIAGNOSTIC CAPACITY FOR HIGH-CONSEQUENCE PATHOGENS: USE OF MULTIPLEX DIAGNOSTIC PLATFORMS FOR PATHOGEN DISCOVERY FROM BIOREPOSITORY SAMPLES IN THE DEMOCRATIC REPUBLIC OF CONGO

Abigail Porzucek[1], Jean Claude Makangara[2], Pauline Musuamba[2], Andre Citenga[2], Celine H. Taboy[3], Adrienne Amuri[2], Sarah R. Tritsch[1], Eddy Lusamaki[2], Emmanuel Lokilo[2], Gerry Makaya[4], Grace Muyembe[2], Raphael Lumembe[2], Gabriel Kabamba[2], Francis Mbuyi[4], Elisabeth Pukuta[2], Antoine Nkuba-Ndaye[2], Nohelia Navarrete[4], Edith Nkwembe[2], Shelia Makiala-Mandanda[2], John D. Klena[3], Steve Ahuka-Mundeke[2], Joel M. Montgomery[3], Placide K. Mbala[2], Christopher N. Mores[1], Jean-Jacques Muyembe Tamfum[2]
[1]George Washington University, Washington, DC, United States, [2]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]Vysnova, Landover, MD, United States

6:45 p.m. 630

PLASMODIUM SPP., SARS-COV2, DENV AND CMV HAVE THE HIGHEST POPULATION ATTRIBUTABLE FRACTION FOR ACUTE FEBRILE ILLNESS USING MULTIPLEX PCR DIAGNOSTICS IN A HEALTH-FACILITY BASED CASE-CONTROL STUDY IN IQUITOS, PERU DURING THE COVID-19 PANDEMIC.

Josh Michael Colston, Margaret Kosek, Pablo Peñataro Yori, Francesca Schiaffino
University of Virginia School of Medicine, Charlottesville, VA, United States

Symposium 41

Progress in the Discovery and Clinical Development of Anti-Malaria Monoclonal Antibodies

Convention Center - Room 6E (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

Additional tools are needed to reduce malaria morbidity and mortality and to decrease Plasmodium falciparum transmission. A recent clinical trial demonstrated that a monoclonal antibody (mAb) with an extended half-life that targets the *P. falciparum* circumsporozoite protein (CSP) can prevent malaria in participants following controlled human malaria infection. This symposium will review progress in the scientific and clinical development of first generation mAbs against *P. falciparum* CSP, as well as the discovery and evaluation of next generation CSP-specific mAbs, mAbs against non-CSP P. falciparum targets on sporozoites, and mAbs that target *P. falciparum* proteins that are critical for invasion of erythrocytes and transmission to the mosquito vector. Potent anti-malaria mAbs could be used in conjunction with other interventions to prevent malaria in children and pregnant women and to reduce transmission and accelerate malaria elimination.

This session does not carry CME credit.

CHAIR

Peter Crompton
NIH, Rockville, MD, United States

Jacqueline Kirchner
Bill & Melinda Gates Foundation, Seattle, WA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
UPDATE ON L9LS CLINICAL DATA AND MORE POTENT NEXT GENERATION MABS AGAINST PFCSP

Azza Idris
National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

5:40 p.m.
TESTING THE SAFETY AND EFFICACY OF ANTI-MALARIA MONOCLONAL ANTIBODIES IN AFRICAN ADULTS AND CHILDREN

Kassoum Kayentao
University of Bamako, Mali, Bamako, Mali

5:55 p.m.
MAM01 MALARIA PREVENTION ANTI-CSP MONOCLONAL ANTIBODY: IDENTIFICATION AND CONSIDERATIONS FOR CLINICAL TRIALS

Scott Miller
Bill & Melinda Gates Medical Research Institute, Cambridge, MA, United States

6:10 p.m.
DISCOVERY OF HUMAN MONOCLONAL ANTIBODIES AGAINST NOVEL *PLASMODIUM FALCIPARUM* CSP TARGETS

Cherrelle Dacon
National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

6:25 p.m.
SAFETY, EFFICACY AND PREDICTED PUBLIC HEALTH IMPACT OF TB31F AS POTENT *P. FALCIPARUM* TRANSMISSION BLOCKING ANTIBODY

Matthijs Jore
Radboud University Medical Center, Nijmegen, Netherlands

Scientific Session 42

Viral Hemorrhagic Fevers

Convention Center - Room 602/603/604 (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

This session does not carry CME credit.

CHAIR

Nicole A. Hoff
UCLA Fielding School of Public Health, Los Angeles, CA, United States

Henrik Salje
University of Cambridge, Cambridge, United Kingdom

5:15 p.m. 631

DEFINING RATIONAL ASSAY CUT-OFFS DOCUMENTING HUMORAL IMMUNE RESPONSES TO SEVERAL FILOVIRUSES IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Nicole A. Hoff[1], Angelica L. Barall[1], Teri Ann Wong[2], Placide Mbala[3], Jean Paul Kompany[3], Didine Kaba[4], Jean Jacques Muyembe tanfum[5], Axel T. Lehrer[2], Anne W. Rimoin[1]
[1]UCLA Fielding School of Public Health, Los Angeles, CA, United States, [2]University of Hawaii at Manoa, Honolulu, HI, United States, [3]Institut National de Recherche Biomédicale, Kinshasa, Kinshasa, Democratic Republic of the Congo, [4]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [5]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo

5:30 p.m.

632

INSIGHTS INTO FILOVIRUS VIRUS GLYCOPROTEIN FROM EPITOPE MAPPING AND INFECTIVITY ANALYSES

Edgar Davidson[1], J. Tabb Sullivan[1], Mallorie E. Fouch[1], Jennie Liang[1], M. Javad Aman[2], Philipp A. Ilinykh[3], Alexander Bukreyev[3], James E. Crowe Jr.[4], Benjamin J. Doranz[1]
[1]Integral Molecular, Inc., Philadelphia, PA, United States, [2]Integrated BioTherapeutics, Inc., Rockville, MD, United States, [3]University of Texas Medical Branch, Galveston, TX, United States, [4]Departments of Pathology, Microbiology and Immunology, Vanderbilt University, Nashville, TN, United States

5:45 p.m.

633

SEROLOGIC PROFILING OF THE HUMORAL IMMUNE RESPONSE TO EBOLA VIRUS AMONG VACCINATED SUBJECTS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Angelica L. Barrall[1], Nicole A. Hoff[1], Teri Ann Wong[2], Placide Mbala[3], Jean Paul Kompany[3], Didine Kaba[4], Jean-Jacques Muyembe[3], Axel T. Lehrer[2], Anne Rimoin[1]
[1]University of California - Los Angeles, Los Angeles, CA, United States, [2]University of Hawaii at Manoa, Honolulu, HI, United States, [3]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, [4]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo

6 p.m.

634

SAFETY OF THE AD26.ZEBOV, MVA-BN-FILO EBOLA VIRUS VACCINE IN PREGNANT WOMEN IN AN OPEN-LABEL CLINICAL TRIAL CONDUCTED DURING THE 2018-2020 EBOLA VIRUS OUTBREAK IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Kambale Kasonia[1], Hugo Kavunga-Membo[2], Grace Mambula[3], Daniela Manno[1], Edward Choi[1], Tansy Edwards[1], Nathalie Imbault[4], Rebecca Grais[3], Daniel G. Bausch[1], Jean Jacques Muyembe[2], Deborah Watson-Jones[1], DRC-EB-001 consortium[5]
[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, [3]Epicentre, Paris, France, [4]Coalition for Epidemic Preparedness Innovations, Oslo, Norway, [5]Goma, Democratic Republic of the Congo

6:15 p.m.

635

EXPANDED USE OF THE RVSVΔG-ZEBOV-GP EBOLA VACCINE

Beth-Ann G. Coller[1], Kenneth Liu[1], Matthew T. Onorato[1], Laurie Connor[1], Jakub Simon[1], Sheri Dubey[1], Susan VanRheenen[1], Jonathan Deutsch[1], Abigail Owens[1], Amy Morgan[1], Carolee Welebob[1], Donna Hyatt[1], Sunita Nair[1], Benjamin Hamze[2], Oumar Guindo[3], Samba Sow[4], Abdoul H. Beavogui[5], Mark Kieh[6], Andrew WT Lee[1]
[1]Merck & Co., Inc., North Wales, PA, United States, [2]INSERM, Lyon, France, [3]UCRC, Bamako, Mali, [4]CVD Mali, Bamako, Mali, [5]CNFRSR, Maferinyah, Guinea, [6]PREVAIL, Monrovia, Liberia

6:30 p.m.

636

NIPAH VIRUS DIVERSITY ACROSS DIFFERENT SPATIAL SCALES IN SOUTH AND SOUTHEAST ASIA

Oscar Cortés Azuero[1], Birgit Nikolay[2], Noémie Lefrancq[1], Clifton McKee[3], Emily S. Gurley[3], Julien Cappelle[4], Vibol Hul[5], Tey Putita Ou[5], Thavry Hoem[5], Mohammed Z. Rahman[6], Ausraful Islam[6], Veasna Duong[5], Henrik Salje[1]
[1]University of Cambridge, Cambridge, United Kingdom, [2]Epicentre, Paris, France, [3]Department of Epidemiology, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, [4]CIRAD, UMR ASTRE, F-34398, Montpellier, France, [5]Virology Unit, Institut Pasteur in Cambodia, Phnom Penh, Cambodia, [6]Infectious Diseases Division, icddr,b, Dhaka, Bangladesh

6:45 p.m.

637

CHARACTERIZING INCIDENT ACUTE LASSA VIRUS INFECTION IN SOUTHERN NIGERIA

Zahra Parker[1], Melanie McCauley[1], Iguosadolo Nosamiefan[2], Anise Happi[2], Johnson Okolie[2], Olivia Achonduh-Atijegbe[2], Morosoore Osoba[2], Michael Iroezindu[3], Abdulwasiu Bolaji Tiamiyu[3], Edward Akinwhale[3], Kara Lombardi[1], Leigh Anne Eller[1], Erica Broach[1], Petra Prins[1], Mihret Amare[1], Christian Happi[2], Kayvon Modjarrad[1]
[1]HJF in support of the Emerging Infectious Diseases Branch (EIDB) Walter Reed Army Institute of Research (WRAIR), Bethesda, MD, United States, [2]African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Nigeria, [3]Henry M. Jackson Foundation Medical Research International, Abuja, Nigeria

Symposium 43

Scaling up the World's First Malaria Vaccine Recommended for Use

Convention Center - Room 605/610 (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

On October 6, 2021, RTS,S/AS01 became the first malaria vaccine recommended by the World Health Organization to reduce child illness and deaths from malaria in sub-Saharan Africa and other regions with moderate to high *Plasmodium falciparum* transmission. The recommendation was made possible in large part by evidence generated through a pilot introduction through routine immunization services in Ghana, Kenya and Malawi that is ongoing through 2023. This evidence showed that the RTS,S vaccine was feasible to administer in the recommended schedule, has a favorable safety profile, and has the potential for significant public health impact in malaria endemic areas. To date, more than one million children have received at least one dose of the vaccine. Ministries of Health in affected countries are now considering whether and when to adopt the malaria vaccine and how to incorporate it as part of their comprehensive malaria control plans using the subnational tailoring approach recommended by WHO. Vaccine supply will initially be limited. In parallel to efforts to increase supply to meet projected demand, WHO has coordinated the development of a Framework for Allocation of vaccine supply, developed through transparent processes, based on shared values, best available scientific evidence, and with appropriate representation and input by key parties. In this symposium, presenters will highlight evidence and experiences from the three pilot countries as they have introduced the RTS,S malaria vaccine in pilot areas, including factors facilitating or impeding adherence to a 4-dose RTS,S schedule, planning for the tailoring of malaria control strategies to include RTS,S, and estimates of the budget impact of adding RTS,S to those strategies. The symposium will then look beyond the pilot countries, and include a presentation of the framework to allocate the initial limited supply of the vaccine and efforts to accelerate access to this lifesaving vaccine. Finally, the audience will hear what is on the horizon for RTS,S and how lessons learned may be used for future malaria vaccines.

This session does not carry CME credit.

CHAIR

W. Scott Gordon
PATH, Seattle, WA, United States

Mary Hamel
World Health Organization, Geneva, Switzerland

5:15 p.m.
INTRODUCTION

5:25 p.m.
FACTORS FACILITATING OR IMPEDING UPTAKE OF THE RTS,S MALARIA VACCINE IN WESTERN KENYA: A QUALITATIVE LONGITUDINAL STUDY

Jenny Hill
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

5:40 p.m.
INCORPORATING RTS,S INTO THE MALARIA CONTROL STRATEGY FOR GHANA USING THE SUBNATIONAL TAILORING APPROACH

Keziah Malm
National Malaria Control Programme, Ghana Health Service, Accra, Ghana

5:55 p.m.
ECONOMIC IMPACT OF THE MALARIA VACCINE: COSTS OF IMPLEMENTATION AND BUDGET IMPACT ANALYSIS IN THE PILOT COUNTRIES

Ranju Baral
PATH, Seattle, WA, United States

6:10 p.m.
THE FRAMEWORK FOR ALLOCATION OF LIMITED VACCINE SUPPLY

Eliane Furrer
World Health Organization, Geneva, Switzerland

6:25 p.m.
BEYOND THE PILOTS: EXPANDING ACCESS AND BUILDING ON LESSONS LEARNED FOR NEXT-GENERATION VACCINES

Mgaywa Magafu
World Health Organization Regional Office for Africa, Brazzaville, Republic of the Congo

Scientific Session 44

Global Health: Neglected Tropical Diseases and Non-Communicable Diseases

Convention Center - Room 606/607 (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

This session does not carry CME credit.

CHAIR

David Vu
Stanford University School of Medicine, Palo Alto, CA, United States

Miguel Reina Ortiz
Boise State University, Boise, ID, United States

5:15 p.m. **638**

TRENDS OF MORTALITY AND MORBIDITY BURDEN RELATED TO NTDS, 1990-2020

Cathleen Keller, Ewerton Cousin, Taren Gorman, Olivia Nesbit, Lydia Plante, Mustafa Sikder, Joanna Whisnant, Trent Yarosevich, Stephanie R M Zimsen, Jonathon Mosser
Institute for Health Metrics and Evaluation, Seattle, WA, United States

5:30 p.m. **639**

BURDEN OF DECLARATION VS NON-DECLARATION NTDS FROM 1990-2020

Cathleen Keller, Joanna Whisnant, Ewerton Cousin, Taren Gorman, Olivia Nesbit, Lydia Plante, Mustafa Sikder, Trent Yarosevich, Stephanie R M Zimsen, Jonathon Mosser
Institute for Health Metrics and Evaluation, Seattle, WA, United States

5:45 p.m. **640**

DENGUE FORECASTING MODELS FOR THE AMERICAS

Talia M. Quandelacy[1], Michael A. Johansson[2]
[1]CU Denver, Colorado School of Public Health, Aurora, CO, United States, [2]Centers for Disease Control and Prevention, Dengue Branch, San Juan, Puerto Rico

6 p.m. **641**

INTERPRETATION OF SYMPTOMS AND EXAM FINDINGS BY HUMAN OR MACHINE TO DETECT DENGUE VIRUS IN KENYAN CLINICS

David M. Vu[1], Francis M. Mutuku[2], Bryson A. Ndenga[3], Philip Chebii[4], Priscilla W. Maina[4], Zainab Jembe[5], Charles Ronga[3], Victoria Okuta[6], A. Desiree LaBeaud[1]
[1]Stanford University School of Medicine, Stanford, CA, United States, [2]Technical University of Mombasa, Mombasa, Kenya, [3]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [4]Vector-Borne Diseases Unit, Msambweni County Referral Hospital, Msambweni, Kenya, [5]Vector-Borne Diseases Unit, Diani Health Center, Ukunda, Kenya, [6]Obama Children's Hospital, Jaramogi Oginga Odinga Referral Hospital, Kisumu, Kenya

6:15 p.m. **642**

EXPANDING XENOSURVEILLANCE CAPABILITIES USING LONGITUDINAL DATA COLLECTED FROM HOUSEHOLDS IN RURAL GUATEMALA

Emma Harris[1], Andrea Chacon[2], Cecy Gonzalez[2], Kimberly Shelton[1], Rebekah McMinn[1], Natalie Vance[1], Delaney Worthington[1], Brian Foy[1], Molly M. Lamb[3], Andrea Scorza[1], Daniel Olson[4], Gregory Ebel[1]
[1]Colorado State University, Fort Collins, CO, United States, [2]Fundacion Guatemalteca para Salud y la Educacion, Ratalhue, Guatemala, [3]University of Colorado, Aurora, CO, United States, [4]University of Colorado at Denver, Aurora, CO, United States

6:30 p.m. **643**

COUNTRY OWNERSHIP OF NEGLECTED TROPICAL DISEASES IN TANZANIA: RESOURCE MOBILIZATION THROUGH COMPREHENSIVE COUNCIL HEALTH PLANS

Wemaeli A. Mweteni[1], Kennedy Z. Panja[1], Chihiyo W. Mlay[2], Oscar C. Kaitaba[2], Isac K. Njau[2], Edwin M. Chao[3], George E. Kabona[2], Wangeci Thuo[4]
[1]RTI international, Dar es salaam, United Republic of Tanzania, [2]The National Neglected Tropical Diseases Control Program, Ministry of Health, Dodoma, United Republic of Tanzania, [3]MOH, Dodoma, United Republic of Tanzania, [4]RTI international, Washington, DC, United States

6:45 p.m.

644

ASSESSING COMMUNITY HEALTH WORKERS' TIME ALLOCATION FOR A CERVICAL CANCER SCREENING AND TREATMENT INTERVENTION: A TIME AND MOTION STUDY

Jobiba Chinkhumba[1], Dorothy Thomas[2], Evelyn Ziphondo[1], Lizzie Msowoya[3], Darcy Rao[2], Jennifer S. Smith[4], Erik Schouten[3], Victor Mwapasa[1], Luis Gadama[1], Ruanne Barnabas[2], Lameck Chinula[3], Jennifer Hui-yu Tang[4]
[1]Kamuzu University of Health Sciences, Blantyre, Malawi, [2]University of Washington, Seattle, WA, United States, [3]University of North Carolina, Lilongwe, Malawi, [4]University of North Carolina, Chapel Hill, NC, United States

Symposium 45

American Committee of Medical Entomology (ACME) Symposium II: Preparing ACME Professionals for Science in a Warmer, Wetter, More Populated World

Convention Center - Room 608/609 (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

The American Committee of Medical Entomology (ACME) seeks to promote medical entomology in the ASTMH and recognize the outstanding contributions, and ensure the next generation of medical entomologists. Climate change represents one of the most significant challenges of the 21st century. The symposium aims to highlight research priorities and challenges that ACME scientists will encounter as they respond to vector-borne disease threats in a warmer, wetter, more populated world. A major goal is to help prepare professionals at all stages of the medical entomology career for "climate smart" research. The symposium will consider invasive mosquito and tick species, the prediction of geographic range shifts and epidemiological risk, and the impact of remote capabilities, digitization and data-infused science. The training and technical capabilities that scientists may require for effective response to emerging disease threats will be reviewed.

This session does not carry CME credit.

CHAIR

Catherine A. Hill
Purdue University, West Lafayette, IN, United States

Douglas E. Norris
Johns Hopkins Bloomberg School Public Health, Baltimore, MD, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
MOSQUITO-BORNE DISEASES IN THE AMERICAS: EMERGING PROFESSIONAL, TECHNOLOGICAL, COMMERCIAL AND RESIDENTIAL NEEDS

Rajeev Vaidyanathan
Oxitec Ltd., Chicago, IL, United States

5:45 p.m.
ENVIRONMENTAL DRIVERS OF VECTOR-BORNE DISEASE: ARBOVIRUSES AND MALARIA

Courtney Murdock
Cornell University, Ithaca, NY, United States

6:05 p.m. - 6:25 p.m.
INVASION BIOLOGY OF THE ASIAN LONG-HORNED TICK, HAEMAPHYSALIS LONGICORNIS

Dina Fonseca
Rutgers University, New Brunswick, NJ, United States

6:25 p.m.
REMOTE EMERGING DISEASE INTELLIGENCE NETWORK (REDINET)

Nicole Achee
University of Notre Dame, South Bend, IN, United States

6:45 p.m.
PANEL DISCUSSION

Adriana Troyo
Universidad de Costa Rica, San José, Costa Rica

Symposium 46

Advances in Enteric Fever Diagnostics

Convention Center - Room 611/612 (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

Enteric fever, caused by invasive infection with Salmonella enterica serovars Typhi or Paratyphi A, B or C, is estimated to cause 14 million illnesses and 135,000 deaths annually. Burden is greatest in South Asia and sub-Saharan Africa, where diagnostic capacity is limited. Delays in appropriate therapy can lead to gastrointestinal bleeding, intestinal perforation, encephalopathy and death.
The emergence and spread of extensively drug-resistant and azithromycin-resistant Typhi limits treatment options, increases hospitalizations, and may lead to greater morbidity and mortality. New typhoid conjugate vaccines have not yet been widely rolled out and don't protect against S. Paratyphi A. Existing diagnostics for enteric fever do not meet standards for accuracy, cost and speed. The standard is blood culture; however, it has only 60% sensitivity, takes 2-4 days for results, and is not widely available in resource-limited settings. The Widal test, developed over 100 years ago, remains the most widely used typhoid diagnostic, despite limited sensitivity and poor specificity in resource-limited settings. Newer generation serologies like Typhidot and Tubex have estimated sensitivity of 69-78% and specificity of 87-90%, falling short of recently proposed target product profiles for enteric fever diagnostics. The consequence of inadequate diagnostics is that most suspected enteric fever patients in resource-limited settings are treated empirically based on clinical impressions. Typhoid symptoms are common to many other illnesses such as malaria and dengue and patients are frequently misdiagnosed. Inappropriate treatment can lead to more serious complications and contribute to the rapidly growing threat of drug-resistant typhoid. Challenges in diagnosis also mean many low and lower-middle income countries lack the capacity to accurately assess burden of disease or recognize outbreaks. This symposium will feature a panel of experts in enteric fever diagnostics presenting promising new approaches to accurately identify enteric fever cases in clinical and field settings. Participants will learn about: 1) the diagnostic performance of a new method using ELISAs to detect anti-hemolysin E (HlyE) and

lipopolysaccharide (LPS) IgA antibody responses in Bangladesh, Nepal and Pakistan; 2) the accuracy of the same antigens on a dual-path platform rapid test format in a clinical setting in Bangladesh; 3) findings from a recent comparative analysis undertaken by FIND, the global alliance for diagnostics, of nine commercially available rapid tests for enteric fever and 4) a new multi-cohort transcriptional signature analysis used to identify an 8-gene signature that robustly distinguishes between bacterial from viral infections.

This session does not carry CME credit.

CHAIR

Jessica Seidman
Sabin Vaccine Institute, Washington, DC, United States

Richelle Charles
Harvard Medical School; Massachusetts General Hospital, Boston, MA, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
EVALUATING THE ACCURACY OF NOVEL ANTIGENS FOR DIAGNOSING ENTERIC FEVER IN BANGLADESH, NEPAL AND PAKISTAN

Kristen Aiemjoy
Stanford University, San Francisco, CA, United States

5:55 p.m.
PROSPECTIVE EVALUATION OF THE DPP TYPHOID RAPID DIAGNOSTIC TEST ON FINGER STICK CAPILLARY BLOOD

Sira Jam Munira
Child Health Research Foundation, Dhaka, Bangladesh

6:10 p.m.
ACCESS TO POINT OF CARE TEST AND PERFORMANCE DATA OF COMMERCIALLY AVAILABLE EXISTING POC

Jyotshna Sapkota
Kathmandu Medical College; FIND, Kathmandu, Nepal

6:25 p.m.
A ROBUST HOST-RESPONSE-BASED SIGNATURE DISTINGUISHES BACTERIAL AND VIRAL INFECTIONS ACROSS DIVERSE GLOBAL POPULATIONS

Purvesh Khatri
Stanford University, Stanford, CA, United States

Symposium 47

Ecological Drivers of Powassan Encephalitis Emergence in North America

Convention Center - Room 615/616/617 (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

This symposium presents research findings that help to explain the current public health burden of Powassan encephalitis, due to a flavivirus commonly found in deer ticks where Lyme disease is intensely zoonotic. The session will summarize the current public health burden and enzootic transmission evidence, and provide a multidisciplinary approach to testing hypotheses that address risk. *In vitro* and *in vivo* comparisons of representative POWV strains suggest great diversity in host cell tropism, replication kinetics, and neurotropism. Viral genetic diversity is similar to that of other flaviviruses, but there is currently no evidence for a selective sweep nor geographic clustering, thereby arguing against the emergence of strains with greater public health significance. The diversity that is observed may reflect local adaptation to a range of wild reservoir hosts. Ultimately, data is sought to better determine whether Powassan encephalitis will increase in public health burden.

This session does not carry CME credit.

CHAIR

Sam Telford
Tufts University, North Grafton, MA, United States

Bekah McMinn
Colorado State University, Fort Collins, CO, United States

5:15 p.m.
INTRODUCTION

5:25 p.m.
WHY DON'T WE SEE MORE POWASSAN ENCEPHALITIS CASES?

Gregory Ebel
Colorado State University, Ft. Collins, CO, United States

5:45 p.m.
***IN VITRO* AND *IN VIVO* EVIDENCE FOR DIVERSE PHENOTYPES OF POWV STRAINS**

Bekah McMinn
Colorado State University, Fort Collins, CO, United States

6 p.m.
RESERVOIRS FOR POWV IN THE NORTHEASTERN U.S.

Heidi Goethert
Tufts University School of Veterinary Medicine, N. Grafton, MA, United States

6:15 p.m.
DIVERSE ECOLOGY OF POWV IN MAINE, A STATE WITH RAPIDLY CHANGING TICK BORNE DISEASE RISK

Robert Smith
Maine Medical Center, Portland, ME, United States

6:30 p.m.
SPATIOTEMPORAL DIVERSITY OF POWV SUBLINEAGES IN NEW ENGLAND

Anne Piantadosi
Emory University, Atlanta, GA, United States

Symposium 48

Plasmodium vivax and Relapsing Malaria: Challenges and Progress to Date

Convention Center - Room 618/619/620 (6th Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone

Malaria remains a disease of devastating global impact, killing more than 627,000 people every year—the vast majority being children under the age of 5. *Plasmodium vivax* (*P. vivax*) is the most abundant of the *Plasmodium* species that infect humans outside Africa and, it has been estimated that the latent and sub

patent *P. vivax* infections are contributing to substantial morbidity and mortality. One of the major problems limiting the control and elimination of malaria is the elusive hypnozoite of *P. vivax* that causes relapses through reactivation in the liver, which can occur weeks or months after a primary infection and in the absence of a mosquito bite. Hypnozoites are clinically silent, undetectable, and resistant to treatment with conventional asexual blood stage antimalarials and make up a significant infection and transmission reservoir that contributes to sustained malaria endemicity and threatens elimination efforts in vivax endemic regions. To meet the call for eradication, medicines that block malaria relapses by eliminating the asymptomatic, hepatic dormant forms of *P. vivax*, without the risk of hemolysis in patients with low G6PD activity need to be developed. During this symposium Dr Dhelio Pereira, a physician treating vivax patients in the State of Rondônia, Brazil, will review the problem posed by *P. vivax* in the field and the status of the current radical cure treatments available together with the difficulties to deploy them alone or in combination with other relevant clinical antimalarials and diagnostics. Next, the tremendous progress that has been achieved over the last decade in developing high throughput hypnozoite assays will be discussed by Dr. Steven Maher, (UGA, *P. vivax* liver stage assay) and by Dr Alison Roth, (WRAIR, P. cynomolgi liver stage assay). Such hypnozoite assays have enabled the screening of >200,000 compounds and the delivery of a new hit to lead series that is part of MMV's portfolio. We will also hear how those assays are being used to test combinations and thus translate *in vitro* findings to clinical observations. Dr. Erika Flannery, from the Novartis Institute for Tropical Disease, will then discuss the strategy put together by a pharmaceutical company for the discovery of novel antimalarials for preventing relapse of *P. vivax* and the challenges faced in terms of drug development. Finally, Dr. Chet Joyner (UGA), will present his exciting new work using nonhuman primates which can be infected with diverse strains of *P. vivax* and used to infect mosquitoes to obtain sporozoites. Those sporozoites can then be used to infect primary hepatocytes *in vitro*, saving time and cost, and allow careful characterization of liver-stage development of selected isolates from diverse geographical areas of the world.

This session does not carry CME credit.

CHAIR

Brice Campo
Medicines for Malaria Venture (MMV), Geneva, Switzerland

Manju Rahi
Indian Council of Medical Research (ICMR), New Delhi, India

5:15 p.m.
INTRODUCTION

5:25 p.m.
THE PROBLEM OF PV RELAPSING MALARIA AND THE STATUS OF THE CURRENT 8AQS TREATMENT

Dhelio B. Pereira
Centro de Pesquisa em Medicina Tropical de Rondônia - CEPEM (The Rondonia State Research Center of Tropical Medicine), Porto Velho, Brazil

5:45 p.m.
THE SEARCH FOR ALTERNATIVE PARTNER DRUGS FOR TAFENOQUINE AND NOVEL DRUG DEVELOPMENT TO KILL *P. VIVAX* HYPNOZOITES

Steven P. Maher
University of Georgia, Athens, GA, United States

6:05 p.m. - 6:25 p.m.
A HIGH-THROUGHPUT PLATFORM FOR RELAPSING MALARIA DRUG DISCOVERY

Alison E. Roth
Walter Reed Army Institute of Research, Silver Spring, MD, United States

6:25 p.m.
DISCOVERY OF *PLASMODIUM VIVAX* ANTI-RELAPSE THERAPIES

Erika L. Flannery
Novartis Institute for Tropical Diseases (NITD), Emeryville, CA, United States

6:45 p.m. - 7:05 p.m.
CHARACTERIZATION OF NHP-ADAPTED *P. VIVAX* STRAINS FOR STUDYING HYPNOZOITES

Chet J. Joyner
University of Georgia, Athens, GA, United States

Special Session 49

Ponder to Probe: A Cosmopolitan Debate and Peer-Networking Session

Convention Center - Room 2A (2nd Floor)
Monday, October 31, 5:15 p.m. - 7 p.m. U.S. Pacific 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.

This session does not carry CME credit.

Sponsored Symposium

Child Immunization: Struggles and Strategies during COVID-19

Convention Center - Room 602/604 (6th Floor)
Monday, October 31, 7:15 p.m. - 9 p.m. U.S. Pacific Time Zone

Sponsored by Save the Children
See page 55 for information.
This session does not carry ASTMH CME credit.

Sponsored Symposium

Biotechnology for Vector Control: Scaling for Impact"

Convention Center - Room 6C (6th Floor)
Monday, October 31, 7:15 p.m. - 9 p.m. U.S. Pacific Time Zone

Sponsored by Bayer Crop Science
See page 56 for information.
This session does not carry ASTMH CME credit.

Tuesday, November 1

Registration

Convention Center - Atrium Lobby (4th Floor)
Tuesday, November 1, 7 a.m. - 5 p.m. U.S. Pacific Time Zone

Speaker Ready Room

Convention Center - Room 310 (3rd Floor)
Tuesday, November 1, 7 a.m. - 6 p.m. U.S. Pacific Time Zone

Meeting Sign-Up Rooms

Convention Center - Rooms 213 and 214 (2nd Floor)
Tuesday, November 1, 7 a.m. - 7 p.m. U.S. Pacific Time Zone

TropStop - Student/Trainee Lounge

Convention Center - Room 3A (3rd Floor)
Tuesday, November 1, 7 a.m. - 5 p.m. U.S. Pacific 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.

Shope Fellowship Committee Meeting

Convention Center - Room 202 (2nd Floor)
Tuesday, November 1, 7 a.m. - 8 a.m. U.S. Pacific Time Zone

NIH Grant Meeting: Large Consortium Grants (By invitation only)

Convention Center - Room 204 (2nd Floor)
Tuesday, November 1, 7 a.m. – 8 a.m.

Sponsored Symposium

Arboviral Diseases: An Emerging and Re-Emerging Public Health Threat

Convention Center - Room 615/617 (6th Floor)
Tuesday, November 1, 7 a.m. - 8:45 a.m. U.S. Pacific Time Zone

Sponsored by Valneva
See page 57 for information.
This session does not carry ASTMH CME credit.

Sponsored Symposium

Malaria and NTD Integration: From Silos to Synergies

Convention Center - Room 613/614 (6th Floor)
Tuesday, November 1, 7 a.m. - 8:45 a.m. U.S. Pacific Time Zone

Sponsored by Global Institute for Disease Elimination (GLIDE)
See page 56 for information.
This session does not carry ASTMH CME credit.

Special Session 50

Tips from the ASTMH Green Task Force: Greening Up Your Lab, Clinical Practice and Field Work

Convention Center - Room 6C (6th Floor)
Tuesday, November 1, 7 a.m. - 8:45 a.m. U.S. Pacific Time Zone

As humanity reckons with the emergency of climate change, our global health community needs to contend with our own contributions to greenhouse gas emissions. We know that transformation is possible and that climate action is the antidote to the existential challenge, but what steps can we take to begin this process? In our recently published AJTMH perspective piece (https://www.ajtmh.org/view/journals/tpmd/aop/article-10.4269-ajtmh.22-0189/article-10.4269-ajtmh.22-0189.xml?rskey=4r5cJ1&result=1&tab_body=pdf) , the ASTMH Green Task Force suggested that ASTMH membership and the Society at large have an immense opportunity, responsibility, and commitment to lead, support, inspire, and empower climate action, research, and innovation that align deeply with our mission and core values. But how? In this interactive discussion, the ASTMH Green Task Force will give an overview of the reasons to take climate action in our global health work. We will then report the results of a climate survey distributed to ASTMH membership and affiliates. Members of the Task Force will present research and practical tips to begin the discussion on how to green up our work in the clinical, field and lab settings. Ample time will be left to have interactive discussion and knowledge sharing on personal and practical insights from audience and task force members as we attempt to find solutions to mitigate our own greenhouse gas emissions.

This session does not carry CME credit.

CHAIR

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

Hanna Ehrlich
University of California Davis, Davis, CA, United States

7 a.m.
INTRODUCTION

7:10 a.m.
WHY CLIMATE ACTION IS GLOBAL HEALTH ACTION
Kate Whitfield
ISGlobal, Barcelona, Spain

7:15 a.m.
A REPORT OF THE ASTMH CLIMATE SURVEY RESULTS
Sapna Sadarangani
National Centre for Infectious Diseases, Tan Tock Seng Hospital, Singapore, Singapore

7:25 a.m.
GREENING UP THE CLINIC
Laia Vazquez Guillamet
Infectious Diseases, ISGlobal, Barcelona, Spain

7:35 a.m.
GREENING UP FIELD WORK
Bartholomew Ondigo
Egerton University, Nakuru, Kenya

7:45 a.m.
GREENING UP THE LAB
Hanna Ehrlich
University of California Davis, Davis, CA, United States

7:55 a.m.
INTERACTIVE DISCUSSION AND Q&A

Press Room

Convention Center - Room 309 (3rd Floor)
Tuesday, November 1, 7:45 a.m. - 5:30 p.m. U.S. Pacific Time Zone

Plenary Session 51

Plenary Session III: Commemorative Lecture

Convention Center - Room 6AB (6th Floor)
Tuesday, November 1, 9 a.m. - 9:45 a.m. U.S. Pacific Time Zone

The Commemorative Lecture is typically given by an outstanding senior scientist in tropical medicine. While there is much to learn from these seasoned experts, ASTMH recognizes that there is also much wisdom and perspective to be gleaned from trainees and junior colleagues navigating their career paths. This year, in a conversation with ASTMH President Daniel Bausch, three people who are still in training will share their experiences, trials and tribulations, inspirations and aspirations, what worked and not worked in their career paths so far, and guidance for the future for trainees and the Society in general. Students and young investigators, academics and educators, and formal and informal mentors and mentees are especially encouraged to attend.

CHAIR

Daniel G. Bausch
FIND, Geneva, Switzerland

9 a.m.

MODERATOR

Daniel G. Bausch
FIND, Geneva, Switzerland

PANELIST

Hanna Ehrlich
University of California Davis, Davis, CA, United States

Bartholomew Ondigo
Egerton University, Nakuru, Kenya

Oyeronke Oyebanji
Coalition for Epidemic Preparedness Initiative (CEPI), London, United Kingdom

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Tuesday, November 1, 9:30 a.m. - 10:30 a.m. U.S. Pacific Time Zone

Coffee Break

Convention Center - Hall 4BC (4th Floor)
Tuesday, November 1, 9:45 a.m. - 10:15 a.m. U.S. Pacific Time Zone

Poster Session B Set-Up

Convention Center - Room 4A (4th Floor)
Tuesday, November 1, 9:45 a.m. - 10:15 a.m. U.S. Pacific Time Zone

Poster Session B Viewing

Convention Center - Room 4A (4th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

Special Event

Careers in CDC in Global Health

Convention Center - Room 3A (3rd Floor)
Tuesday, November 1, 10:15 a.m. - 11:15 a.m.

During this informal meet and greet session, talk with CDC scientists working in global health activities about career opportunities at CDC in laboratory science, bioinformatics, and beyond. CDC Center for Global Health Associate Director for Laboratory Science, Anne Purfield, and her colleagues will be available to answer your questions and expand your network

Scientific Session 52

Flavivirus Vaccines and Immunity

Convention Center - Room 6AB (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

This session does not carry CME credit.

CHAIR

Manuel Vangelisti
Sanofi, Lyon, France

Izabela Mauricio de Rezende
Stanford University School of Medicine, Stanford, CA, United States

10:15 a.m. 645

DEEP CHARACTERIZATION OF THE IMMUNOGENICITY INDUCED BY NEXT GENERATION YELLOW FEVER VACCINE IN PHASE 1 DOSE-RANGING STUDY

Nathalie Mantel[1], Anke Pagnon[1], Christophe Carre[1], Marion Aguirre[1], Emilie Chautard[1], Sophie Gimenez-Fourage[1], Florine Guillaume[1], Yichen Jia[1], Franck Raynal[1], Manuel Vangelisti[1], Kayvon Modjarrad[2], Emmanuel Feroldi[1]
[1]Sanofi, Marcy l'Etoile, France, [2]Emerging Infectious Diseases Branch, Walter Reed Army Institute of Research, Bethesda, MD, United States

10:30 a.m. 646

SOFOSBUVIR OFF LABEL TREATMENT OF YELLOW FEVER PATIENTS DURING AN OUTBREAK IN BRAZIL, 2018

Izabela Mauricio de Rezende[1], Diogo Correa Mendonça[2], Leonardo S. Pereira[3], Carlos Eduardo Calzavara-Silva[4], Olindo Assis Martins-Filho[5], Andrea Teixeira-Carvalho[5], Claudio Antonio Bonjardim[6], Dario Brock Ramalho[7], A. Desiree LaBeaud[1], Marcelo Antonio Pascoal Xavier[8], Betania Paiva Drumond[6]
[1]Stanford University School of Medicine, Stanford, CA, United States, [2]Medical Research Council-University of Glasgow, Centre for Virus Research, Glasgow, United Kingdom, [3]Bendigo Health, Bendigo, Victoria, Australia, [4]Cellular and Molecular Immunology, Instituto René Rachou, Fundação Oswaldo Cruz /FIOCRUZ Minas, Belo Horizonte, Brazil, [5]Integrated Group of Biomarkers Research, Instituto René Rachou, Fundação Oswaldo Cruz/FIOCRUZ Minas, Belo Horizonte, Brazil, [6]Laboratory of Viruses, Microbiology Department, Biological Sciences Institute, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, [7]Eduardo de Menezes Hospital, Belo Horizonte, Brazil, [8]Immunology of Viruses Diseases, Instituto René Rachou, Fundação Oswaldo Cruz /FIOCRUZ Minas, Belo Horizonte, Brazil

10:45 a.m. 647

MAPPING ZIKA VIRUS-SPECIFIC NEUTRALIZING IMMUNITY FOR OPTIMAL VACCINE DEVELOPMENT

Kathryn H. Radulovacki[1], Daniel O. Espinoza[1], Yerun Zhu[1], Jaime A. Cardona-Ospina[2], Christina Mehta[1], Oyindamola Yusuf[1], Vincent Dussupt[3], Gina C. Donofrio[3], Nadine Rouphael[1], Alfonso J. Rodriguez-Morales[2], Srilatha Edupuganti[1], Kayvon Modjarrad[3], Mark J. Mulligan[4], Aravinda M. de Silva[5], Shelly J. Krebs[3], Matthew H. Collins[1]
[1]Emory University School of Medicine, Atlanta, GA, United States, [2]Fundación Universitaria Autónoma de las Américas, Pereira, Colombia, [3]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [4]NYU Langone Vaccine Center, New York, NY, United States, [5]University of North Carolina Chapel Hill, Chapel Hill, NC, United States

11 a.m. 648

HUMORAL AND T-CELL-MEDIATED RESPONSES TO A PRE-CLINICAL ZIKA VACCINE CANDIDATE THAT UTILIZES A UNIQUE INSECT-SPECIFIC FLAVIVIRUS PLATFORM

Danielle L. Porier, Manette Tanelus, William B. Stone, Krisangel Lopez, Dawn I. Auguste, Albert J. Auguste
Virginia Polytechnic Institute and State University, Blacksburg, VA, United States

11:15 a.m. 649

THE EFFECT OF OBESITY ON PEDIATRIC DENGUE VIRUS INFECTION, DISEASE, AND IMMUNE RESPONSE

Reinaldo Mercado-Hernendez[1], Rachel Myers[1], Fausto Bustos[1], Sandra Bos[1], José Victor Zambrana[2], Brenda López[2], Nery Sanchez[2], Aaron M. Frutos[3], Aubree Gordon[3], Angel Balmaseda[4], Guillermina Kuan[5], Eva Harris[1]
[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Sustainable Sciences Institute, Managua, Nicaragua, [3]Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, [4]Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, [5]Centro de Salud Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua

11:30 a.m. 650

OBESITY ALTERS IMMUNE RESPONSES TO DENGUE VIRAL INFECTION IN CHILDREN AND YOUNG ADULTS

Michaela Gregorova[1], Nguyet Minh Nguyen[2], Ho Quang Chanh[2], Nguyen Thi Xuan Chau[2], Dong Thi Hoai Tam[2], Tran Thuy Vi[2], Duyen Huynh Thi Le[2], Cao Thi Tam[3], Hoa Vo Thi My[2], Sophie Yacoub[2], Laura Rivino[1]

[1]University of Bristol, Bristol, United Kingdom, [2]Oxford University Clinical Research Unit, Ho Chi Minh City, Viet Nam, [3]Hospital for Tropical Diseases, Ho Chi Minh City, Viet Nam

11:45 a.m. 651

TAK-003 ELICITS TETRAVALENT, ROBUST, AND SUSTAINED NS1 AB RESPONSES SPANNING POPULATION AGE AND BASELINE SEROSTATUS

Heather Watkins[1], Nicole Messere[1], Lydia Cox[1], Ayako Miura[1], Vianney Tricou[1], Shibadas Biswal[1], Mayuri Sharma[1], DEN-304 and DEN-301 Study Groups[2]

[1]Takeda Pharmaceuticals Inc., Cambridge, MA, United States

Scientific Session 53

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria - Immunology and Vaccines

Convention Center - Room 6C (6th Floor)

Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

This session does not carry CME credit.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Amy Bei
Yale University, New Haven, CT, United States

William Stone
LSHTM, London, United Kingdom

10:15 a.m. 1847

GENETIC SCREENS IN PLASMODIUM BERGHEI IDENTIFY HUNDREDS OF FERTILITY GENES AND A SUN PROTEIN THAT LINKS DNA TO MICROGAMETES

Claire Sayers[1], Vikash Pandey[2], Mirjam Hunziker[2], Mercedes Pardo Calvo[3], Jyoti Choudhary[3], Oliver Billker[2]

[1]University of New South Wales, Sydney, Australia, [2]Umeå University, Umeå, Sweden, [3]Institute of Cancer Research, London, United Kingdom

10:30 a.m. 1848

THE IMPORTANCE OF THE UNFOLDED PROTEIN RESPONSE AND UBIQUITIN PROTEASOME SYSTEM IN P. FALCIPARUM ARTEMISININ RESPONSE

Melissa Rosenthal, Caroline L. Ng

Department of Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE, United States

10:45 a.m. 652

SPOROZOITE IMMUNIZATION FOLLOWED BY ANTIMALARIAL CHEMOPROPHYLAXIS TARGETING PLASMEPSINS IX AND X CONFERS STERILE IMMUNITY AGAINST MALARIA

Ryan Steel[1], Sabrina Caiazzo[1], Yu Cheng Chua[2], Daniel Fernandez-Ruiz[2], William Heath[2], David Olsen[3], **Justin Boddey**[1]

[1]Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, [2]University of Melbourne, Parkville, Australia, [3]Merck & Co. Inc., West Point, PA, United States

(ACMCIP Abstract)

11 a.m. 653

ALTERED VΔ2+ ΓΔ T CELL CHROMATIN ACCESSIBILITY AND IMMUNE FUNCTION FOLLOWING REDUCED *IN VIVO* OR *IN VITRO* MALARIA EXPOSURE

Kathleen Dantzler Press[1], Sandy Klemm[1], Fabian Müller[2], Derek Chen[1], Midhuna I. Joseph Maran[2], Zicheng Hu[3], John Rek[4], Felistas Nankya[4], Isaac Ssewanyana[4], Moses Kamya[5], Bryan Greenhouse[6], Grant Dorsey[6], Margaret Feeney[6], Will Greenleaf[1], Prasanna Jagannathan[1]

[1]Stanford University, Stanford, CA, United States, [2]Saarland University, Saarbrücken, Germany, [3]University of California at San Francisco, San Francisco, CA, United States, [4]Infectious Disease Research Collaboration, Kampala, Uganda, [5]Makerere University College of Health Sciences, Kampala, Uganda, [6]University of California at San Francisco, San Francisco, CA, United States

(ACMCIP Abstract)

11:15 a.m. 654

THE ACQUISITION OF HUMORAL IMMUNE RESPONSES TARGETING *PLASMODIUM FALCIPARUM* SEXUAL STAGES IN CONTROLLED HUMAN MALARIA INFECTIONS

Roos M. de Jong[1], Manon Alkema[1], Tate Oulton[2], Elin Dumont[2], Karina Teelen[1], Rie Nakajima[3], Rafael R. de Assis[3], Kathleen Dantzler Press[4], Priscilla Ngotho[5], Kevin Tetteh[2], Philip Felgner[3], Matthias Marti[5], Katharine Collins[1], Chris Drakeley[2], Teun Bousema[1], **William Stone**[2]

[1]Radboud UMC, Nijmegen, Netherlands, [2]London School of Hygiene and Tropical Medicine, London, United Kingdom, [3]University of California Irvine, Irvine, CA, United States, [4]Stanford University, Stanford, CA, United States, [5]Glasgow University, Glasgow, United Kingdom

11:30 a.m. 655

PLASMODIUM INFECTION IS ASSOCIATED WITH CROSS-REACTIVE ANTIBODIES TO CARBOHYDRATE EPITOPES ON THE SARS-COV-2 SPIKE PROTEIN

Sarah Lapidus[1], Feimei Lui[2], Arnau Casanovas-Massana[1], Yile Dai[2], John D. Huck[2], Carolina Lucas[2], Jon Klein[2], Renata B. Filler[2], Madison B. Strine[2], Mouhamad Sy[3], Awa B. Deme[3], Aida S. Badiane[3], Baba Dieye[3], Ibrahima M. Ndiaye[3], Younous Diedhiou[3], Amadou M. Mbaye[3], Cheikh T. Diagne[4], Inés Vigan-Womas[4], Alassane Mbengue[4], Bacary D. Sadio[4], Moussa M. Diagne[4], Adam J. Moore[1], Khadidiatou Mangou[4], Fatoumata Diallo[4], Seynabou D. Sene[4], Mariama N. Pouye[4], Rokhaya Faye[4], Babacar Diouf[4], Nivison Nery, Jr.[5], Federico Costa[1], Mitermayer G. Reis[1], M. Catherine Muenker[1], Daniel Z. Hodson[2], Yannick Mbarga6, Ben Z. Katz[7], Jason R. Andrews[8], Melissa Campbell[2], Ariktha Srivathsan[1], Kathy Kamath[9], Elisabeth Baum-Jones[9], Ousmane Faye[4], Amadou A. Sall[4], Juan Carlos Quintero-Vélez[10], Michael Cappello[2], Michael Wilson[11], Choukri Ben-Mamoun[2], Fabrice A. Somé[12], Roch K. Dabiré[12], Carole Else Eboumbou Moukoko[13], Jean Bosco Ouédraogo[12], Yap Boum II[14], John Shon[9], Daouda Ndiaye[3], Adam Wisnewski[2], Sunil Parikh[1], Akiko Iwasaki[2], Craig B. Wilen[2], Albert I. Ko[1], Aaron M. Ring[1], Amy K. Bei[1]

[1]Yale School of Public Health, New Haven, CT, United States, [2]Yale School of Medicine, New Haven, CT, United States, [3]Cheikh Anta Diop University, Dakar, Senegal, [4]Institut Pasteur de Dakar, Dakar, Senegal, [5]Instituto de Saúde Coletiva, Salvador, Brazil, [6]Douala Military Hospital, Douala, Cameroon, [7]Northwestern University Feinberg School of Medicine, Chicago, IL, United States, [8]Stanford University School of Medicine, Stanford, CA, United States, [9]Serimmune, Inc, Goleta, CA, United States, [10]University of Antioquia, Medellín, Colombia, [11]University of Ghana, Accra, Ghana, [12]Institut de Recherche en Sciences de La Santé (IRSS)/Centre Muraz, Bobo-Dioulasso, Burkina Faso, [13]University of Douala, Douala, Cameroon, [14]University of Yaoundé and Epicentre, Médecins Sans Frontières, Yaoundé, Cameroon

11:45 a.m. 656

A SINGLE FULL-LENGTH VAR2CSA ECTODOMAIN VARIANT PURIFIES CROSS-INHIBITORY ANTIBODIES AGAINST PLACENTAL MALARIA ISOLATES

Yai Justin Doritchamou[1], Jonathan P. Renn[1], Bethany Jenkins[1], Almahamoudou Mahamar[2], Alassane Dicko[2], Michal Fried[1], Patrick E. Duffy[1]
[1]Laboratory of Malaria Immunology & Vaccinology, National Institute of Allergy and Infectious Disease, Bethesda, MD, United States, [2]Malaria Research and Training Center, University of Sciences, Techniques, and Technologies of Bamako, Bamako, Mali

(ACMCIP Abstract)

Scientific Session 54

Malaria: Drugs and Clinical Trials: Novel Approaches and Informative Trials

Convention Center - Room 6E (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

This session does not carry CME credit.

CHAIR

Carol H. Sibley
University of Washington, Seattle, WA, United States

Mamadou Sangare
African Center of Excellence in Bioinformatics (ACE-B)/USTTB,Mali, Bamako, Mali

10:15 a.m. 657

HOST TARGETED KINASE INHIBITORS AS A DRUG CANDIDATE WITH DUAL ANTI-PARASITIC AND PROTECTIVE BLOOD BRAIN BARRIER ACTIVITY AGAINST CEREBRAL MALARIA

Priyanka Bansal, Luana Dos Santos Ortolan, Veronica Primavera, Alexis Kaushansky, Joseph Smith
Seattle Childrens Research Institute, Seattle, United States Minor Outlying Islands

10:30 a.m. 658

ROSIGLITAZONE ADJUNCTIVE THERAPY FOR CHILDREN WITH SEVERE MALARIA

Rosauro Varo[1], Valerie Crowley[2], Humberto Mucasse[3], Antonio Sitoe[3], Marta Valente[1], Sara Ajanovic[1], Núria Balanza[1], Clara Erice[2], Justina Bramugy[3], Andrea Weckman[2], Alfredo Mayor[1], Kevin Kain[2], Quique Bassat[1]
[1]Barcelona Institute for Global Health, Barcelona, Spain, [2]SAR Laboratories, Sandra Rotman Centre for Global Health, University Health Network-Toronto General Hospital Research Institute, Toronto, ON, Canada, [3]Centro de Investigação em Saúde Manhiça, Manhiça, Mozambique

10:45 a.m. 659

STRUCTURAL CHARACTERIZATION OF PHOSPHATIDYLSERINE DECARBOXYLASE A PROMISING THERAPEUTIC TARGET OF *PLASMODIUM FALCIPARUM* AND PREDICTION OF ITS POTENTIAL INHIBITORS

Mamadou Sangare[1], Cheickna Cisse[1], Mamadou Wele[1], Anne Searls De Groot[2], Seydou Doumbia[1], Jian Li[3], Jeffrey G Shaffer[3]
[1]African Center of Excellence in Bioinformatics (ACE-B)/USTTB,Mali, Bamako, Mali, [2]University of Georgia (UGA), Athens, Georgia, GA, United States, [3]Tulane University, New Orleans, LA, United States

(ACMCIP Abstract)

11 a.m. 660

APOPTOSIS INDUCING ANTI-MALARIA DRUGS TARGETING PFGARP

Dipak K. Raj[1], Tanbir Najrana[1], Hannah Wu[1], Jenna Zuromski[1], Christian Nixon[1], Sunthorn Pond-Tor[1], Mandar Naik[1], Szu-Huan Wang[1], Kurt Pennell[1], Katherine Manz[1], Hoseah Akala[2], John Michael Ong'echa[2], Jeffrey Dvorin[3], Adel Nefzi[4], Andrew Oleinikov[5], **Jonathan D. Kurtis**[1]
[1]Brown University, Providence, RI, United States, [2]KEMRI, Kisumu, Kenya, [3]Harvard University/ Boston Childrens Hospital, Boston, MA, United States, [4]Florida International University, Miami, FL, United States, [5]Florida Atlantic University, Bocca Raton, FL, United States

11:15 a.m. 661

THE POTENTIAL PUBLIC HEALTH IMPACT OF NOVEL MALARIA MONOCLONAL ANTIBODY INTERVENTIONS

Narimane Nekkab, Josephine Malinga, Lydia Braunack-Mayer, Sherrie Kelly, Melissa Penny
Swiss Tropical and Public Health Institute, Allschwil, Switzerland

11:30 a.m. 662

REDUCING THE RISK OF *PLASMODIUM VIVAX* AFTER *P. FALCIPARUM* INFECTIONS IN CO-ENDEMIC AREAS - A RANDOMIZED CONTROLLED TRIAL

Kamala Thriemer[1], Tamiru Degaga[2], Michael Christian[3], Mohammad Shafiul Alam[4], Benedikt Ley[1], Mohammad Sharif Hussein[4], Mohammad Golam Kibria[4], Tedla Teferi[5], Dagimawie Tadesse[2], Sophie Weston[1], Amalia Karahalios[6], Megha Rajasekhar[6], Julie A. Simpson[6], Angela Rumaseb[1], Hellen Mnjala[1], Grant Lee[1], Rodas Temesgen Anose[2], Fitsum Getahun Kidane[2], Adugna Woyessa[7], Kevin Baird[3], Inge Sutanto[8], Asrat Hailu[9], Ric N. Price[1]
[1]Menzies School of Health Research and Charles Darwin University, Darwin, Australia, [2]College of Medicine & Health Sciences, Arba Minch University, Arba Minch, Ethiopia, [3]Eijkman-Oxford Clinical Research Unit, Jakarta, Indonesia, [4]International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, [5]Arba Minch General Hospital, Arba Minch, Ethiopia, [6]Centre for Epidemiology and Biostatistics, Melbourne School of Population and Global Health, The University of Melbourne, Melbourne, Australia, [7]Ethiopian Public Health Institute, Addis Abeba, Ethiopia, [8]Department of Parasitology, Faculty of Medicine, University of Indonesia, Jakarta, Indonesia, [9]College of Health Sciences, Addis Ababa University, Addis Abeba, Ethiopia

11:45 a.m. 663

MECHANISTIC MODELLING OF PRIMAQUINE PHARMACOKINETICS, GAMETOCYTOCIDAL ACTIVITY, AND MOSQUITO INFECTIVITY

Joel Tarning[1], Palang Chotsiri[1], Almahamoudou Mahamar[2], Richard M. Hoglund[1], Fanta Koita[2], Koualy Sanogo[2], Halimatou Diawara[2], Alassane Dicko[2], Julie A. Simpson[3], Teun Bousema[4], Nicholas J. White[1], Joelle M. Brown[5], Roly Gosling[5], Ingrid Chen[5]
[1]Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, [2]Malaria Research and Training Centre, Bamako, Mali, [3]University of Melbourne, Melbourne, Australia, [4]Radboud Institute of Health Sciences, Nijmegen, Netherlands, [5]University of California, San Francisco, CA, United States

Symposium 55

Innovations Pitch Competition: Global Health and Human Rights

Convention Center - Room 602/603/604 (6th Floor)
Tuesday, November 1, 10:15 a.m. – Noon U.S. Pacific Time Zone

Supported with funding from Roche

The Innovations Pitch Competition is a TED Talk-style, rapid-fire pitch session held in front of a live audience. It is a lively, fun and interactive session showcasing some of the most inspiring ideas that focus on bright ideas to reduce risk, improve prediction and deliver better healthcare tools for outbreak-prone diseases in low-resource settings. Five finalists are selected to pitch their innovative ideas for a monetary prize. This year's competition will focus on global health and equity. Innovations may address but are not limited to equitable sharing systems so that more can access vaccines, diagnostics and therapies; delivering better risk decision tools for measuring and predicting global health action; science hesitancy and societal benefits of sound medical countermeasures; and demonstrated impact of reducing carbon and harmful environmental footprints in products and tools. Winners will be determined by audience voting and a panel of expert judges.

This session does not carry CME credit.

CHAIR

May C. Chu
Colorado School of Public Health, Aurora, CO, United States

Molly M. Lamb
Colorado School of Public Health, Aurora, CO, United States

10:25 a.m.
INNOVATIONS PITCH 1

10:35 a.m.
INNOVATIONS PITCH 2

10:45AM - 10:55AM
INNOVATIONS PITCH 3

10:55 a.m.
INNOVATIONS PITCH 4

11:05 a.m.
INNOVATIONS PITCH 5

11:15 a.m.
QUESTION AND ANSWER

11:35 a.m.
JUDGES' DELIBERATION AND AUDIENCE VOTING

11:50 a.m.
SCORE FINALIZATION AND ANNOUNCEMENT OF WINNERS

Symposium 56

Development and Clinical Evaluation of Genetically Attenuated, Replication Competent, Late Arresting (LARC) PfSPZ Vaccines Manufactured in Mosquitoes or *in vitro* using bioreactors

Convention Center - Room 605/610 (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

Plasmodium falciparum (Pf) sporozoite (SPZ) vaccines have induced the highest and most durable efficacy against Pf Controlled Human Malaria Infection of any malaria vaccine, and also have excellent safety and tolerability profiles. The flagship first-generation PfSPZ Vaccine, utilizing irradiated PfSPZ as the immunogen, is on the pathway to licensure in the US, Europe and then across Africa. However, the PfSPZ-CVac approach, in which non-attenuated, fully infectious PfSPZ are attenuated *in vivo* by a co-administered antimalarial drug, has provided better protective efficacy than PfSPZ Vaccine at only 20-25% of the dose of vaccine required for irradiated PfSPZ; 100% protection against a highly variant Pf strain at 12 weeks after last dose. Thus, PfSPZ-CVac is more potent than PfSPZ Vaccine and 4 to 5 times as many doses can be manufactured for the same cost. This is because while the irradiated PfSPZ in PfSPZ Vaccine arrest early in the liver without replicating, the parasites in PfSPZ-CVac are replication competent and are killed in the blood stream by the partner drug, chloroquine, which permits complete development in the liver, allowing of the immunogen and the expression of new mid- and late-liver stage antigens. This amplification and diversification of the immunogen greatly enhances potency and provides proof-of-concept for a second generation vaccine in which liver stage development occurs but attenuation is achieved not by a drug but through deletion of genes required for the transition to blood stage parasites. These "late arresting, replication competent" (LARC) parasites have now been developed, and their GMP production *in vitro* without requiring the use of aseptic mosquitoes as the bioreactor has also been accomplished. This symposium provides coverage of these significant changes in technologies and targets for PfSPZ vaccines. Next generation PfSPZ malaria vaccines will exploit parasite gene deletion at the late liver stage to increase potency and efficacy, genetic manipulation of the parasites for improved transformation to gametocytes, and *in vitro* manufacture to massively reduce cost of goods. These new technologies, set the stage for highly potent second generation PfSPZ vaccines and will allow for technology transfer to the countries that will need PfSPZ vaccines the most.

This session does not carry CME credit.

CHAIR

Issaka Sagara
University of Bamako, Bamako, Mali

Peter Gottfried Kremsner
Institute of Tropical Medicine, UKT, Germany, Tübingen, Germany

10:15 a.m.
INTRODUCTION

10:25 a.m.
THE FOUNDATION: HIGH LEVEL PROTECTION AGAINST V ARIANT PARASITES BY PFSPZ-CVAC
Patrick E. Duffy
NIH, Rockville, MD, United States

10:45 a.m.
DEVELOPMENT AND CLINICAL TESTING OF GA2 (PFMEI2 KO), A GENETICALLY ATTENUATED PARASITE THAT ARRESTS LATE IN THE LIVER
Meta Roestenberg
Leiden University Medical Centre, Leiden, Netherlands

11:05 a.m.
PFSPZ-LARC2: DEVELOPMENT OF A DOUBLE GENE KNOCKOUT LATE LIVER STAGE-ARRESTING REPLICATION COMPETENT PARASITE VACCINE
Debashree Goswami
Centre for Infectious Disease Research, Seattle, WA, United States

11:25 a.m.
MANUFACTURING OF PFSPZ-LARC2 IN MOSQUITOES AND PLANS FOR FIRST CLINICAL TRIALS
B Kim Lee Sim
Sanaria Inc., Rockville, MD, United States

11:45 a.m.
MANUFACTURING OF PFSPZ-LARC *IN VITRO* IN BIOREACTORS, THE ULTIMATE PLAN
Abraham Eappen
Sanaria Inc., Rockville, MD, United States

Symposium 57

Global Health Leaders in Analytics and Modelling: A New Generation of Modellers in LMIC

Convention Center - Room 606/607 (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

There is a critical unmet need for locally relevant, evidence-based, strategic decision-making in support of malaria health policy planning, impact evaluation and advocacy for funding in LMIC. This demand is only likely to grow, as governments increasingly recognize the benefits of optimizing the impact of limited national health budgets through advanced analytical techniques, which include modelling and simulation. The COVID-19 pandemic has catalyzed recognition for the role of modelling in decision-making and now is precisely the right time to develop the talent present in LMIC and accelerate local capabilities in this field. For modelling to have a positive impact it must be embedded in a multidisciplinary, participatory process with other scientists and Ministries of Health. Ensuring the skills exist at a local level enables the development of locally relevant, integrated epidemiological–economic models to accelerate disease control and elimination, led by in-country researchers working closely alongside local decision-makers. Through the Global Health Leaders in Analytics and Modelling (GHLAM) and the Malaria Modelling and Analytics: Leaders in Africa (MMALA) programs, the session seeks to develop a critical mass of LMIC modellers to meet the need for tailored quantitative malaria decision support in a sustainable way. The program will provide a nexus for the training and career development of local individuals who will be able to support their governments to shape strategic plans, secure necessary funds, and evaluate and improve the impact of health programs. This symposium takes the opportunity to present five future global leaders in disease modelling. These disease modellers, based in LMIC, have completed or are currently completing PhDs in mathematical modelling. Despite the early stage of their career, all five modellers have already applied their skillset to provide model-based evidence to decision-makers. This symposium presents disease modelling research to prioritize vector control interventions in Ghana, investigate optimal elimination strategies in Cameroon, support COVID-19 policy development in Kyrgyzstan and Brazil and costing malaria elimination policy in Myanmar. Along with presenting the scientific elements of their research, each speaker will focus on the role of context, empathy and indigenous knowledge in establishing a highly efficient pathway from analysis to impact in LMIC.

This session does not carry CME credit.

CHAIR
Sheetal Prakash Silal
Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa

Lisa J. White
Big Data Institute, Oxford University, Oxford, United Kingdom

10:15 a.m. - 10:20 a.m.
INTRODUCTION

10:25 a.m.
USING MATHEMATICAL MODELS TO SUPPORT DECISION MAKING DURING THE COVID-19 PANDEMIC IN BRAZIL
Caroline Franco
Big Data Institute, Oxford University, United Kingdom

10:40 a.m.
TOWARDS MALARIA ELIMINATION IN GHANA: A SUBNATIONAL APPROACH
Timothy A. Awine
University of Cape Town, Cape Town, South Africa

10:55 a.m.
MODELLING OPTIMAL CONFIGURATIONS OF INTERVENTIONS FOR COST-EFFECTIVE MALARIA "ELIMINATION" IN CAMEROON
Akindeh Mbuh Nji
University of Yaounde I, Yaounde, Cameroon, Cameroon

11:10 a.m.
COSTING MALARIA ELIMINATION IN MYANMAR AND BEYOND
Shwe Sin Kyaw
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

11:25 a.m.
PARTICIPATORY APPROACH IN INFORMING THE COVID-19 NATIONAL POLICIES IN KYRGYZSTAN
Ainura Moldokmatova
Big Data Institute, Oxford University, United Kingdom

Symposium 58

Symposium to Honor the Life and Career of Dr. Philip K. Russell, FASTMH

Convention Center - Room 608/609 (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

This symposium will honor the life and legacy of former ASTMH President, Dr. Philip K. Russell, who died in early 2021. In a remarkable 60-year career, Dr. Russell made important contributions to tropical medicine and global public health while serving in leadership and advisory positions in the U.S. Army, the U.S. Government, academia, and in a host of nonprofit organizations committed to the prevention of infectious diseases, including the Sabin Vaccine Institute, the Bill & Melinda Gates Foundation, the Children's Vaccine Initiative, the International Vaccine Institute, the Aeras Global TB Vaccine Foundation, the Malaria Vaccine Initiative, and IAVI. This symposium will highlight key disease research and policy areas that were central to Dr. Russell's work.

This session does not carry CME credit.

CHAIR
Kent E. Kester
IAVI, New York, NY, United States

Regina Rabinovich
Harvard School of Public Health, Boston, MA, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
PERSPECTIVES ON VACCINE DEVELOPMENT IN THE GLOBAL FIGHT AGAINST MALARIA
Regina Rabinovich
Harvard School of Public Health, Boston, MA, United States

10:45 a.m.
COVID-19--AN AFRICAN PERSPECTIVE
Samba O. Sow
Center for Vaccine Development-Mali, Bamako, Mali

11:05 a.m.
PROGRESS AND CHALLENGES IN THE DEVELOPMENT OF EBOLA VACCINES
Thomas P. Monath
Crozet BioPharma, Devens, MA, United States

11:25 a.m.
PERSPECTIVES ON DENGUE PATHOGENESIS AND VACCINE DEVELOPMENT
Scott Halstead
Retired, Uniformed Services University of the Health Sciences, North Bethesda, MD, United States

11:45 a.m.
GLOBAL HEALTH, ZOONOTIC DISEASE, AND THE FOUNDATIONS OF THE ONE HEALTH INITIATIVE
James LeDuc
University of Texas Medical Branch, Galveston, TX, United States

Symposium 59

Arthropod Saliva: Current Research Avenues and Future Opportunities

Convention Center - Room 611/612 (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

The saliva of blood-feeding arthropods is composed of a multitude of different biologically-active substances, including vasoactive, antithrombotic, and immunomodulatory proteins. In addition to facilitating feeding, arthropod saliva has a documented capacity to affect the outcome of infectious exposure. Like any foreign protein, immune responses can be elicited against these vector-derived antigens. The objective of this symposium is to explore the multifaceted role of arthropod saliva in the pathogenesis and transmissibility of vector-borne diseases, as well as the nature of the host immune responses elicited against arthropod-saliva antigens. The first two talks in the symposium will focus on the ability of arthropod saliva to influence the pathogenesis and transmissibility of vector-borne diseases. The first speaker will discuss the impact of sand fly saliva on the pathogenesis of leishmaniasis, while the second speaker will examine how tick salivary factors facilitate the transmission of tick-borne viruses. After these speakers, the symposium will pivot to explore the utility of assessing anti-arthropod immunity in humans as a marker of exposure to disease-transmitting mosquitos. The third speaker will discuss work on developing novel biomarkers to identify exposure to Malaria harboring mosquitos. Specifically, this talk will focus on describing the role of Anopheles salivary gland and ookinete peptides as a surrogate indicator of malaria infectious bites for community and household level surveillance. The next speaker will highlight recent work in developing novel tools for quantifying arbovirus exposure, especially focusing on the temporal and dose-response aspects of human immune responses to controlled *Aedes aegypti* mosquito bites. To conclude the symposium, the final speaker will highlight work on developing vector-targeting vaccines. This talk will highlight approaches to target antigens from disease-transmitting vectors rather than antigens from disease-causing pathogens, and how this approach may offer protection from infection or severe disease from a broad-range of arthropod-transmitted pathogens. In its totality, this symposium will highlight the multifaceted role that arthropod saliva can play in influencing the pathogenesis and transmissibility of vector-borne diseases, and how this process can be disrupted by vector-specific vaccines.

This session does not carry CME credit.

CHAIR

Adam T. Waickman
SUNY Upstate Medical University, Syracuse, NY, United States

Kathryn Anderson
SUNY Upstate Medical University, Syracuse, NY, United States

10:15 a.m.
INTRODUCTION

10:25 a.m.
THE MULTI-DIMENSIONAL EFFECT OF SAND FLY SALIVA ON PATHOGENESIS OF LEISHMANIASIS

Shaden Kamhawi
National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

10:45 a.m.
TICK SALIVARY FACTORS FACILITATE THE TRANSMISSION OF TICK-BORNE VIRUSES OF HUMAN HEALTH CONCERN

Saravanan T. Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

11:05 a.m.
ANOPHELES SALIVARY GLAND AND OOKINETE PEPTIDES: MALARIA INFECTIOUS BITE MARKERS FOR COMMUNITY AND HOUSEHOLD LEVEL SURVEILLANCE

Kingsley Badu
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

11:25 a.m.
NOVEL TOOLS FOR QUANTIFYING ARBOVIRUS EXPOSURE: TEMPORALITY AND DOSE-RESPONSE IN THE HUMAN IMMUNE RESPONSE TO CONTROLLED *AEDES AEGYPTI* MOSQUITO BITES

Kathryn T. Anderson
SUNY Upstate Medical University, Syracuse, NY, United States

11:45 a.m.
VECTOR-TARGETED VACCINES: THE NEXT GENERATION OF TOOLS FOR VECTOR-BORNE DISEASES?

Jessica Manning
National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

Symposium 60

SOS! How the Schistosomiasis Oversampling Study Informs the Optimal Sampling Strategy for Sub-District Decisions

Convention Center - Room 613/614 (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

The majority of schistosomiasis (SCH) endemic countries throughout sub-Saharan Africa have successfully scaled-up preventive chemotherapy (PC) with praziquantel through either school or community platforms in districts with moderate and high infection prevalence. Surveys are now needed to evaluate the impact of the interventions and ensure resources are being directed to the areas of greatest need. But given the highly focal nature of SCH, what is the optimal sampling approach to assess disease prevalence and enable treatment decisions at a sub-district level? Recognizing this urgent gap, the World Health Organization (WHO) set up a technical working group to evaluate multiple sampling strategies. This group determined the critical need for a precise understanding of the underlying prevalence of SCH in different settings to which the sampling strategies could be compared. Consequently, the Schistosomiasis Oversampling Study (SOS) was developed as a large multi-country evaluation conducted in Cote d'Ivoire, Ghana, Mali and Togo, selected for their different transmission archetypes. The aim of SOS was to provide a detailed epidemiological understanding of the distribution of Schistosoma haematobium and S. mansoni in school-aged children after multiple rounds of PC. The prevalence surfaces resulting from these data were then used to evaluate different sampling strategies to select an approach that is optimal for SCH program decision making. This symposium will open with an overview and rationale for SOS and a description of the sampling design. Subsequently, there will be a series of presentations focusing on the results of the study. The first results presentation will provide descriptive statistics and maps to demonstrate the spatial variation in prevalence of school-age children, both across and within the transmission archetypes included in the study. A second presentation will focus on the age-prevalence and age-intensity relationships between school-age children and adults at the community level and determine whether the infection status of children remains a reliable proxy for community transmission. The third presentation will describe how data from SOS, plus existing, robust, fine-scale mapping data were then compiled to generate accurate prevalence surfaces, with associated uncertainty, representing each archetype. The results of simulations which determine the optimal sampling strategies to inform sub-district interventions that are both feasible for country programs to implement and result in sufficiently accurate treatment classifications will be presented. The symposium will close with the implications of the SOS findings for national programmes in endemic countries and the next steps for inclusion in global SCH guidance.

This session does not carry CME credit.

CHAIR

Stella Kepha
Kenya Medical Research Institute, Nairobi, Kenya

Mahamadou Traore
Direction Générale de la Santé et de l'Hygiène Publique, Bamako, Mali

10:15 a.m.
INTRODUCTION

10:25 a.m.
THE SCHISTOSOMIASIS OVERSAMPLING SURVEYS

Aboulaye Meite
Ministère de la Santé et de l'Hygiène Publique, Abidjan, Côte D'Ivoire

10:40 a.m.
SPATIAL DISTRIBUTION OF SCHISTOSOMIASIS IN TRANSMISSION ARCHETYPES FOLLOWING MULTIPLE ROUNDS OF PREVENTIVE CHEMOTHERAPY

Monique Dorkenoo
Université de Lomé, Lome, Togo

10:55 a.m.

THE AGE-INFECTION PROFILE OF SCHISTOSOMIASIS FOLLOWING MULTIPLE ROUNDS OF PREVENTIVE CHEMOTHERAPY

Joseph Opare
Ghana Health Service, Accra, Ghana

11:10 a.m.

SURVEY SIMULATIONS TO DETERMINE OPTIMAL SAMPLE STRATEGIES FOR SCHISTOSOMIASIS

Penelope Vounatsou
Swiss Tropical and Public Health Institute (Swiss TPH), Allschwil, Switzerland

11:25 a.m.

ROLE OF SOS SURVEYS IN REFINING IMPACT EVALUATION THAT CAN BE USED TO TREATMENT DECISIONS AT A SUBDISTRICT/SUB-IMPLEMENTATION LEVEL

Pauline N. Mwinzi
World Health Organization, Brazzaville, Republic of the Congo

Scientific Session 61

Mosquitoes-Vector Biology-Epidemiology II

Convention Center - Room 615/616/617 (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

This session does not carry CME credit.

CHAIR

Leon E. Hugo
QIMR Berghofer Medical Research Institute, Brisbane, Australia

Paula Lado
Colorado State University, Fort Collins, CO, United States

10:15 a.m. 664

WOLBACHIA WALBB INHIBIT DENGUE AND ZIKA INFECTION IN AUSTRALIAN *AEDES AEGYPTI* MOSQUITOES

Leon E. Hugo[1], Gordana Rašić[1], Andrew J. Maynard[2], Luke Ambrose[3], Catherine Liddington[4], Callum J. E. Thomas[5], Nisa S. Nath[1], Melissa Graham[1], Clay Winterford[1], BMC Randika Wimalasiri-Yapa[6], Zhiyong Xi[7], Nigel W. Beebe[3], Gregor J. Devine[1]
[1]QIMR Berghofer Medical Research Institute, Brisbane, Australia, [2]School of Biological Sciences, Brisbane, Australia, [3]School of Biological Sciences, University of Queensland, Brisbane, Australia, [4]CSIRO, Brisbane, Australia, [5]School of Biological Sciences, University of Queensland, Herston, Australia, [6]The Open University of Sri Lanka, Columbo, Sri Lanka, [7]Michigan State University, East Lansing, MI, United States

10:30 a.m. 665

TARGETING MOSQUITO HYDROXYPHENYLPYRUVATE DIOXYGENASE (HPPD) AS A NOVEL STRATEGY FOR PREVENTING MALARIA TRANSMISSION

Anna Elizabeth Trett
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:45 a.m. 666

THE ROLE OF NOVEL IMMUNE MODULATORS AND ANTI-CTL4 NANOBODIES IN *ANOPHELES GAMBIAE* ANTI-*PLASMODIUM* IMMUNITY

Johnny Nakhleh[1], Maria L. Simões[1], Yuemei Dong[1], Ah-Ram Kim[2], George Dimopoulos[1]
[1]W. Harry Feinstone Department of Molecular Microbiology and Immunology, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, [2]Department of Genetics, Harvard Medical School, Boston, MA, United States

(ACMCIP Abstract)

11 a.m. 667

LIFE HISTORY AND INFECTION CHARACTERISTICS OF ANOPHELES STEPHENSI MOSQUITOES FOLLOWING CRYOPRESERVATION

Peter Billingsley, Nicole Encardes, James Overby, Steve Matheny, Fantahun Addisu, Dimitri Koutzoumis, Jeremy Guth, B. Kim Lee Sim, Stephen L. Hoffman, Abraham Eappen, Eric R. James
Sanaria Inc., Rockville, MD, United States

11:15 a.m. 668

PATTERNS THAT DRIVE MOSQUITO-FUNGUS ASSEMBLIES ARE MAINTAINED ACROSS MOSQUITO SPECIES

Patil Tawidian[1], Kerri L. Coon[2], Ari Jumpponen[1], Kristin Michel[1]
[1]Kansas State University, Manhattan, KS, United States, [2]University of Wisconsin-Madison, Madison, WI, United States

11:30 a.m. 669

THE EFFECT OF SUBLETHAL DOSES OF IVERMECTIN ON *ANOPHELES GAMBIAE* MIDGUT MICROBIOTA

Paula Lado, Tereza Magalhaes, Ashley Janich, Brian D. Foy
Colorado State University, Fort Collins, CO, United States

11:45 a.m. 670

ZOOPROPHYLAXIS-AIDED IVERMECTIN-BASED VECTOR ELIMINATION (ZAIVE), A RANDOMIZED VILLAGE-BASED ENTOMOLOGICAL TRIAL, CENTRAL VIET NAM

Estee Y. Cramer[1], Nguyen Xuan Quang[2], Jeffrey C. Hertz[3], Do Van Nguyen[2], Huynh Hong Quang[2], Ian H. Mendenhall[4], Andrew A. Lover[1]
[1]Department of Biostatistics and Epidemiology, School of Public Health and Health Sciences, University of Massachusetts-Amherst, Amherst, MA, United States, [2]Institute for Malariology, Parasitology and Entomology, Ministry of Health, Quy Nhon, Viet Nam, [3]U.S. Naval Medical Research, Unit Two, Singapore, [4]Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore

Scientific Session 62

Alphaviruses

Convention Center - Room 618/619/620 (6th Floor)
Tuesday, November 1, 10:15 a.m. - Noon U.S. Pacific Time Zone

This session does not carry CME credit.

CHAIR

Rose Langsjoen
Emory University, Atlanta, GA, United States

William Marciel de Souza
University of Texas Medical Branch, Galveston, TX, United States

10:15 a.m. 671

POPULATION ANALYSIS OF EASTERN EQUINE ENCEPHALITIS VIRUS DERIVED FROM INFECTED HUMAN BRAIN TISSUE: WITHIN- AND BETWEEN-HOST VARIATION

Rose M. Langsjoen[1], Autum Key[1], Sanda Alexandrescu[2], Isaac H. Solomon[3], Anne Piantadosi[1]
[1]Emory University, Atlanta, GA, United States, [2]Boston Children's, Boston, MA, United States, [3]Brigham and Women's Hospital, Boston, MA, United States

10:30 a.m. 672

A RETROSPECTIVE GENOMIC SURVEILLANCE OF CHIKUNGUNYA TRANSMISSION IN MINAS GERAIS STATE, SOUTHEAST BRAZIL

Hegger M. Fritsch[1], Marta Giovanetti[1], Joilson Xavier[1], Talita E R Adelino[2], Vagner Fonseca[3], Jaqueline G. de Jesus[4], Ronaldo de Jesus[5], Carla Freitas[5], Cássio R L Peterka[6], Carlos F C de Albuquerque[3], Ana M B de Filippis[1], Rivaldo V. da Cunha[7], Erniria C. Silva[8], Luiz C J Alcantara[1], Felipe C m Iani[2]
[1]Laboratório de Flavivírus, Instituto Oswaldo Cruz, Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, [2]Laboratório Central de Saúde Pública do Estado de Minas Gerais, Fundac ão Ezequiel Dias, Belo Horizonte, Brazil, [3]Organizac ão Pan-Americana da Saúde / Organizac ão Mundial da Saúde, Brasília, Brazil, [4]Laboratório de Patologia Experimental, Instituto Gonçalo Moniz, Fundacão Oswaldo Cruz, Salvador, Brazil, [5]Coordenação Geral dos Laboratórios de Saúde Pública, Secretaria de Vigilância em Saúde, Ministério da Saúde, Brasília, Brazil, [6]Coordenac ão Geral das Arboviroses, Secretaria de Vigila ncia em Saúde/Ministério da Saúde (CGARB/SVS-MS), Brasília, Brazil, [7]Fundação Oswaldo Cruz, Bio-Manguinhos, Rio de Janeiro, Brazil, [8]Coordenadoria Estadual de Vigilância das Arboviroses/Secretaria de Estado de Saúde de Minas Gerais, Belo Horizonte, Brazil

10:45 a.m. 673

CHIKUNGUNYA: PHASE 3 CLINICAL DEVELOPMENT OF A SINGLE-SHOT LIVE-ATTENUATED VACCINE

Vera Bürger, Martina Schneider, Sandra Hadl, Marivic Narciso, Robert McMahon, Sebastian Töpfer, Ulrike Fuchs, Romana Hochreiter, Annegret Bitzer, Karin Kosulin, Robert Mader, Oliver Zoihsl, Katrin Dubischar, Nina Wressnigg, Susanne Eder-Lingelbach, Juan Carlos Jaramillo
Valneva Austria GmbH, Vienna, Austria

11 a.m. 674

A PHASE 2 OPEN-LABEL STUDY TO ASSESS THE SAFETY AND IMMUNOGENICITY OF AN ALUM-ADJUVANTED CHIKUNGUNYA VIRUS-LIKE PARTICLE (VLP) VACCINE IN PRIOR RECIPIENTS OF OTHER ALPHAVIRUS VACCINES VERSUS ALPHAVIRUS NAÏVE CONTROLS

Melinda J. Hamer[1], Benjamin Pierson[2], Jeannine Haller[2], Christine Lee[1], Jack N. Hutter[1], Karen Martins[2], Pamela Glass[2], Dani Liggett[2], Aaron Sanborn[1], James E. Moon[1], Melissa Gregory[2], Crystal W. Burke[2], Christina L. Gardner[2], Neha Ghosh[3], Lisa Bedell[3], David Saunders[4], Jason A. Regules[1], James M. McCarty[5]
[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]United States Army Medical Research Institute of Infectious Diseases (USAMRIID), Fort Detrick, MD, United States, [3]Emergent BioSolutions, Gaithersburg, MD, United States, [4]Uniformed Services University (USU) F. Edward Hebert School of Medicine, Bethesda, MD, United States, [5]Stanford University, Stanford, CA, United States

11:15 a.m. 675

IMMUNOLOGICAL INSIGHTS BASED ON ANTIBODY BINDING EPITOPES ON THE CHIKUNGUNYA VIRUS ENVELOPE

Edgar Davidson[1], Rachel H. Fong[1], Rebecca Rimkunas[1], Hayley Crawford[1], Lewis J. Stafford[1], Jin Jin[2], Graham Simmons[2], Michael S. Diamond[3], James E. Crowe Jr.[4], Benjamin J. Doranz[1]
[1]Integral Molecular, Inc., Philadelphia, PA, United States, [2]Vitalant Research Institute, San Francisco, CA, United States, [3]Department of Medicine, Washington University, St Louis, MO, United States, [4]Departments of Pathology, Microbiology and Immunology, Vanderbilt University, Nashville, TN, United States

11:30 a.m. 676

IL2/ANTI-IL2 COMPLEX FOR THE TREATMENT OF CHRONIC CHIKUNGUNYA VIRUS ARTHRITIS IN A MOUSE MODEL

Sarah Renee Tritsch, Abigail J. Porzucek, Abigale Eichelman, Arnold M. Schwartz, Richard Amdur, Christopher N. Mores, Aileen Y. Chang
George Washington University, Washington, DC, United States

11:45 a.m. 677

PATHOGENESIS OF CHIKUNGUNYA VIRUS ASSOCIATED WITH FATAL OUTCOMES

William M. de Souza[1], Marcilio J. Fumagalli[2], Shirlene T. Lima[3], Jeany Delafiori[4], Priscilla P. Barbosa[4], Stefanie P. Muraro[4], Gabriela F. Souza[4], Viviane S. Boaventura[5], Ester C. Sabino[6], Ricardo Khouri[7], Rodrigo R. Catharino[4], Luiz Tadeu M. Figueiredo[8], Nuno R. Faria[9], José Luiz P. Modena[4], Scott C. Weaver[1]
[1]University of Texas Medical Branch, Galveston, TX, United States, [2]The Rockefeller University, New York City, NY, United States, [3]Central Public Health Laboratory of Ceará State, Fortaleza, Brazil, [4]University of Campinas, Campinas, Brazil, [5]Universidade Federal da Bahia, Salvador, Brazil, [6]University of São Paulo, São Paulo, Brazil, [7]Fundação Oswaldo Cruz-Fiocruz, Salvador, Brazil, [8]University of São Paulo, Ribeirao Preto, Brazil, [9]Imperial College London, London, United Kingdom

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Tuesday, November 1, Noon - 1:45 p.m. U.S. Pacific Time Zone

Poster Session 63

Poster Session B Presentations

Convention Center - Hall 4A (4th Floor)
Tuesday, November 1, Noon - 1:45 p.m.

Poster Session B Directory

Global Health - Diversity, Inclusion, Decolonization and Human Rights: 678-686

Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 687-699

Global Health - Other: 700-710

Global Health - Planetary Health including Climate Change: 711-718

Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 719-738

Ectoparasite-Borne Disease - Babesiosis and Lyme Disease: 739-742

Ectoparasite-Borne Disease — Other: 743-751

Mosquitoes - Insecticide Resistance and Control: 752-773

Mosquitoes - Vector Biology-Epidemiology: 774-787

Flaviviridae - Dengue: 788-810

Viruses - Other: 811-848

Malaria - Antimalarial Resistance and Chemotherapy: 849-864

Malaria - Biology and Pathogenesis: 865-875

Malaria - Diagnosis - Challenges and Innovations: 876-892

Malaria - Drug Development and Clinical Trials: 893-903

Malaria - Elimination: 904-914

Malaria - Epidemiology, Surveillance and Data Utilization: 915-946

Malaria - Immune Responses to Infection and Disease: 947-959

Malaria - Other: 960-981

Malaria - Prevention: 982-997

Malaria - Vaccine Development and Human Trials: 998-1013

Malaria - Vectors and Community-Based Responses: 1014-1023

Bacteriology - Enteric Infections: 1024-1035

Cestodes - Echinococcosis/Hydatid disease: 1036

Cestodes - Taeniasis and Cysticercosis: 1037-1038

Clinical Tropical Medicine: 1039-1057

Helminths - Nematodes - Filariasis (Epidemiology): 1058-1073

Helminths - Nematodes - Intestinal Nematodes: 1074-1091

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Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Cellular and Molecular Biology (Including Leishmania and Trypanosomes): 1105-1109

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Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s)

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EXPANSION OF THE LASSA FEVER TESTING NETWORK IN NIGERIA

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ESTABLISHMENT OF A LASSA FEVER BIOBANK AT THE FEDERAL MEDICAL CENTER OWO, ONDO STATE, NIGERIA

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ACCESS AND UTILIZATION OF INSECTICIDE TREATED MOSQUITO NETS IN CONFLICT-AFFECTED FRAGILE STATES: ANALYSIS OF SUBNATIONAL CONFLICT EFFECT IN DEMOCRATIC REPUBLIC OF CONGO AND NIGERIA

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DETECTION AND SEQUENCING OF A MONKEYPOX VIRUS OUTBREAK IN MANIEMA PROVINCE, DEMOCRATIC REPUBLIC OF THE CONGO

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HESITANCY IN COVID-19 VACCINE UPTAKE AMONG PREGNANT WOMEN IN KISUMU AND SIAYA COUNTIES, WESTERN KENYA AUGUST 2021- FEBRUARY 2022

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SHARING MITS RESULTS WITH MOTHERS AND ITS IMPACTS ON HEALTH-SEEKING BEHAVIOR AND DELIVERY OUTCOMES IN SUBSEQUENT PREGNANCY: FINDINGS FROM CHAMPS BANGLADESH

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HYPERSENSITIVITY REACTIONS TO IXODES SCAPULARIS BITES

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PRE-CLINICAL EFFICACY AND CORRELATES OF IMMUNITY FOLLOWING VACCINATION WITH FOUR IMMUNODOMINANT BABESIA MICROTI ANTIGENS IN MICE

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FIELD EVALUATION OF LOOP-MEDIATED ISOTHERMAL AMPLIFICATION FOR DETECTION OF ONCHOCERCA SPP. IN BLACKFLY POPULATIONS

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INVESTIGATION OF SEROPREVALENCE OF EHRLICHIOSIS AND ANAPLASMOSIS ALONG THE TEXAS-MEXICO BORDER

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THE EMERGENCE OF TICKS AND TICK-BORNE DISEASE IN SOUTH CAROLINA: ESTABLISHING A STATEWIDE INITIATIVE LEVERAGING ACADEMIC-PUBLIC PARTNERSHIPS

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THE SEROPREVALENCE AND RISK FACTORS FOR SPOTTED FEVER GROUP AND TYPHUS GROUP RICKETTSIA ALONG THE TEXAS-MEXICO BORDER

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FIRST WHOLE GENOME ISOLATION OF CRIMEAN-CONGO HAEMORRHAGIC FEVER VIRUS (CCHFV) IN TICK SPECIES WITHIN GHANA AND THE RISK OF HUMAN EXPOSURE TO THE VIRUS

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TICKS AND ZOONOTIC TICK-BORNE PATHOGENS OF LIVESTOCK IN KASSENA-NANKANA DISTRICT, GHANA

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RISK FACTORS FOR TICK INFESTATION AND DISTRIBUTION ON LIVESTOCK IN GHANA

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WHOLE TRANSCRIPTOMIC ANALYSIS OF ANOPHELES ARABIENSIS RESISTANT TO PYRETHROIDS AND ORGANOPHOSPHATES FROM WESTERN KENYA REVEALS OVEREXPRESSION OF SALIVARY GLAND AND CUTICULAR PROTEINS

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RESULTS OF EXPANDED INSECTICIDE RESISTANCE MONITORING TO SEVERAL ECOLOGICAL ZONES IN CAMEROON FOR APPROPRIATE VECTOR CONTROL DECISION MAKING DATA

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IVERMECTIN-TREATED BIRDFEED CONFERS DOSE-DEPENDENT TOXICITY TO CULEX TARSALIS MOSQUITOES WHILE REMAINING SAFE FOR AVIAN CONSUMPTION

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TEMPORAL EVALUATION OF INSECTICIDE RESISTANCE IN POPULATIONS OF THE MAJOR ARBOVIRAL VECTOR *AEDES AEGYPTI* FROM NORTHERN NIGERIA

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MOSQUITOCIDAL ACTIVITY OF IVERMECTIN METABOLITES IN ANOPHELES STEPHENSI

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IMPROVEMENT OF INSECTICIDAL ACTIVITY OF NEONICOTINOIDS WITH COMMON DETERGENTS

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DRUG REPURPOSING FOR OPTIMAL USE OF IVERMECTIN AGAINST MALARIA: LONG LASTING FORMULATIONS ALLOWING EFFICACY AGAINST WILD-DERIVED ANOPHELES FOR AT LEAST 2 MONTHS

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THE ENTOMOLOGICAL IMPACT OF ITNS AND IRS IN THE AMERICAS: FILLING THE KNOWLEDGE GAPS

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DETERMINING A DIAGNOSTIC DOSE OF PIRIMIPHOS METHYL FOR *AEDES AEGYPTI* USING TREATED BOTTLES

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MODELING THE SPREAD OF INSECTICIDE RESISTANCE AND ITS IMPACT ON ATSB DEPLOYMENT IN SUB-SAHARAN AFRICA

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VPRAM (VOLATILE PYRETHROIDS AGAINST MOSQUITOES): A SYSTEMATIC REVIEW AND META-ANALYSIS OF THE ASSOCIATION BETWEEN THE USE OF VOLATILE PYRETHROID-BASED SPATIAL REPELLENTS AND MOSQUITO BITE PREVENTION

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TEMPERATURE ALTERS THE TOXICITY OF MALATHION AND DELTAMETHRIN ON THE WEST NILE VIRUS VECTOR, CULEX TARSALIS, PHOENIX, AZ

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INSECTICIDE RESISTANCE OF *AEDES AEGYPTI* AND AE. ALBOPICTUS IN PAPUA NEW GUINEA

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PACMOSSI: THE PACIFIC MOSQUITO SURVEILLANCE STRENGTHENING FOR IMPACT PROGRAM

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IMPACT OF INDOOR RESIDUAL SPRAYING VECTOR CONTROL TOOL ON MALARIA VECTOR POPULATION IN PAPUA NEW GUINEA

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MODELLING THE IMPACT OF VECTOR CONTROL INTERVENTIONS ON MALARIA TRANSMISSION BASED ON SEMI-FIELD AND FIELD DATA

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LONGITUDINAL SURVEILLANCE OF MALARIA VECTORS FROM VILLAGE AND FOREST AREAS OF STUNG TRENG AND MONDULKIRI PROVINCES, CAMBODIA USING FOUR DIFFERENT MOSQUITO COLLECTION METHODS

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INVESTIGATIONS ON THE EFFECT OF TEMPERATURE ON THE VERTICAL AND TRANSSTADIAL TRANSMISSION RATES OF RIFT VALLEY FEVER VIRUS IN CULEX TARSALIS AND *AEDES AEGYPTI* MOSQUITOES

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CAN TRANSGENIC MALARIA-REFRACTORY MOSQUITOES ALSO SUPPRESS GENETICALLY DIVERSE *PLASMODIUM FALCIPARUM* FIELD ISOLATES?

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DEEP ANALYSIS OF HOST SEEKING ACTIVITIES IN MALARIA VECTORS ACCOUNTS FOR HIGH LEVEL OF RESIDUAL TRANSMISSION DESPITE EXTENSIVE LLIN COVERAGE IN BURKINA FASO

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TOWARDS THE LABORATORY MAINTENANCE OF HAEMAGOGUS JANTHINOMYS, THE MAJOR NEOTROPICAL VECTOR OF SYLVATIC YELLOW FEVER

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THE PROMISE AND PITFALLS OF MOSQUITO REPRODUCTIVE CONTROL: LESSONS FROM THE DENGUE VECTOR, *AEDES AEGYPTI*.

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PERSISTENT FINE-SCALE GEOGRAPHIC CLUSTERING OF LA CROSSE VIRUS DISEASE IN SOUTHERN APPALACHIA (UNITED STATES)

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EMPLOYING STATE-OF-THE-ART MOSQUITO CONTROL STRATEGIES, REMOTE SENSING AND MACHINE LEARNING, TO PRIORITIZE AEDES SPP. ABUNDANCE AND MOSQUITO BREEDING HABITAT RISK

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TRACING THE SPREAD OF ANOPHELES STEPHENSI IN DIFFERENT STATES IN SUDAN

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BUILDING VECTOR CONTROL CAPACITY TO REDUCE MALARIA TRANSMISSION IN PAPUA NEW GUINEA

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A FOLLOW-UP ON THE RECENTLY ESTABLISHED AEDES ALBOPICTUS PRESENCE IN JORDAN

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USE OF UNMANNED AERIAL VEHICLES (UAVS) TO IDENTIFY LANDSCAPE FEATURES RELATED TO ARBOVIRAL TRANSMISSION IN NORTHERN, COASTAL ECUADOR

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DIFFERENTIAL DENSITIES OF KEY VECTORS OF RVFV IN SPACE IN THE KENYAN EPIZOOTIC NORTHEASTERN REGION

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POTENT HYDROXYETHYLAMINE BASED DRUG CANDIDATES AGAINST ZIKA VIRUS INFECTION: BIOACTIVITY AND PHARMACOLOGICAL EVALUATION

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

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RECONSTRUCTING DENGUE TRANSMISSION IN A MULTIGENERATIONAL COHORT IN KAMPHAENG PHET, THAILAND

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ASSOCIATION BETWEEN MAGNITUDE OF ANTI-DENGUE VIRUS ANTIBODY AVIDITY AND PROTECTION AGAINST SYMPTOMATIC DENGUE VIRUS INFECTION

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MIDGUT MICROBIAL COMMUNITY SIGNIFICANTLY INTERFERES ARBOVIRAL INFECTION IN MOSQUITOES AN AXENIC MOSQUITO STUDY

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IMPACT OF DENGUE FEVER ON MENTAL HEALTH IN ESMERALDAS PROVINCE, ECUADOR: A PROSPECTIVE CASE-CONTROL STUDY WITH 6-MONTHS FOLLOW-UP

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IN-VITRO DETECTION OF DENGUE 1 VIRUS IN HUMAN WHOLE BLOOD, PLASMA, AND SERUM WITH NEAR-INFRARED SPECTROSCOPY

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REAL-TIME GENOMIC SURVEILLANCE OF DENV-1 AND DENV-2 IN BRAZIL: IMPROVING PUBLIC HEALTH OUTBREAKS RESPONSE

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PHYLOGENETICALLY DISTINCT DENGUE VIRUS IS ANTIGENICALLY RELATED TO ALL FOUR DENGUE VIRUS SEROTYPES

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A SINGLE NUCLEOTIDE U59C SUBSTITUTION IN THE DENGUE VIRUS 5' UNTRANSLATED REGION DESTABILIZED AN ATTENUATING MUTATION IN MOSQUITOES

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ACUTE RESPIRATORY INFECTIONS SURVEILLANCE AT A SENTINEL SITE IN CARTAGENA, COLOMBIA: PRELIMINARY RESULTS FROM NOVEMBER 2021 TO MARCH 2022

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EFFICACY OF ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN NIGER, 2020

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THERAPEUTIC EFFICACY OF PYRONARIDINE-ARTESUNATE (PYRAMAX®) FOR THE TREATMENT OF *PLASMODIUM VIVAX* AND MOLECULAR CHARACTERIZATION OF VIVAX ISOLATES IN DAK NONG PROVINCE IN THE CENTRAL HIGHLANDS OF VIETNAM

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Steven Kho[1], Nurjati C. Siregar[2], Putu Ayu I. Wardani[3], Aurelie Fricot[4], David Hardy[5], Leily Trianty[6], Enny Kenangalem[7], Ric N. Price[1], Papa A. Ndour[8], Tsin W. Yeo[9], Rintis Noviyanti[6], Jeanne R. Poespoprodjo[7], Pierre A. Buffet[8], Nicholas M. Anstey[1]
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EVALUATION OF AN ULTRASENSITIVE HRP2-BASED RAPID DIAGNOSTIC TEST FOR DETECTION OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* PARASITEMIA AMONG CHILDREN IN WESTERN KENYA

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100 YEARS OF MALARIA IN ZANZIBAR

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GLOBAL ESTIMATES OF PREGNANCIES AT RISK OF *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* INFECTION IN 2020 AND CHANGES IN RISK PATTERNS SINCE 2000

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RELATIONSHIP BETWEEN NUTRITION STATUS AND MALARIA OUTCOMES IN RWANDA

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MAPPING THE ECONOMIC BURDEN OF MALARIA IN MOZAMBIQUE

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ASSOCIATIONS BETWEEN *IN UTERO* HIV EXPOSURE OR OTHER DELIVERY CHARACTERISTICS AND AGE OF MALARIA INFECTION IN A COHORT OF KENYAN INFANTS

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MALARIA SURVEILLANCE AND REPORTING SYSTEM: A REAL TIME REPORTING AND VISUALIZATION TOOL USED TO ENHANCE MALARIA SURVEILLANCE EFFORTS IN SOUTHERN-EASTERN TANZANIA

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DEVELOPING A SAMPLING STRATEGY FOR ESTIMATING WARD-LEVEL MALARIA PREVALENCE AND RELATED RISKS IN NIGERIAN CITIES: HOW FEASIBLE ARE MACHINE LEARNING ALGORITHMS?

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INCIDENCE OF NON-FALCIPARUM MALARIA INFECTION AMONG CHILDREN AND ADULTS IN KINSHASA PROVINCE, DEMOCRATIC REPUBLIC OF THE CONGO

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STRATIFICATION OF MALARIA IN NEPAL BASED ON RISK OF TRANSMISSION AND ELIMINATION FOCI

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QUANTIFYING THE DRIVERS OF *P. FALCIPARUM* TRANSMISSION ACROSS A HETEROGENEOUS LANDSCAPE USING RESISTANCE SURFACE ANALYSIS

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ESTIMATING THE POTENTIAL GEOSPATIAL MALARIA EXPOSURE RISK FOR DIFFERENT OCCUPATION GROUPS IN YALA, THAILAND

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IMPROVEMENT OF THE HEALTH INFORMATION MANAGEMENT SYSTEM THROUGH MALARIA DATA QUALITY ASSESSMENT SITE VISITS IN PMI SUPPORTED HEALTH ZONES IN DRC

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ASSESSMENT OF 5 YEAR MALARIA EPIDEMIOLOGY PATTERNS IN PATHOGEN DIVERSITY NETWORK AFRICA (PDNA) COUNTRIES TO ADDRESS PUBLIC HEALTH INTEGRATED INTERVENTIONS INCLUDING GENETICS FOR THE REDUCTION OF MALARIA BURDEN

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APPLICATION OF GC_3, A LOCUS READ COVERAGE ASSESSMENT TOOL, TO IDENTIFY GENE DUPLICATIONS OF PFMDR1 AND PLASMEPSIN-2 AMONG *PLASMODIUM FALCIPARUM* STRAINS

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UNMASC (UGANDA MALARIA ACTIONABLE SURVEILLANCE IN THE TIME OF CORONAVIRUS): USING HEALTH FACILITY AND CROSS-SECTIONAL SURVEY DATA TO ASSESS THE EFFECTS OF THE COVID-19 PANDEMIC ON MALARIA BURDEN AND CARE

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DETERMINANTS OF MALARIA INFECTION AMONG CHILDREN UNDER FIVE IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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UTILITY OF MALARIA HISTIDINE RICH PROTEIN2 RAPID DIAGNOSTIC TEST FOR MALARIA SURVEILLANCE IN FEDERAL CAPITAL TERRITORY, NIGERIA

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FACTORS ASSOCIATED WITH IGG ANTIBODY RESPONSE TO ANOPHELES ALBIMANUS SALIVARY GLAND EXTRACT AMONG 6- AND 7-YEAR-OLD CHILDREN: HAITI, 2016

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HEME-INDUCED EXPRESSIONS OF IL-6R, TLR4 AND NFΚB IN HUMAN BRAIN ENDOTHELIAL CELLS (HBEC-5I) AND MACROPHAGES (THP-1) ARE MODULATED BY MIR-451A AND LET-7I-5P-LOADED EXTRACELLULAR VESICLES (EVS)

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HETEROLOGOUS EXPRESSION AND EARLY CHARACTERIZATION OF *PLASMODIUM VIVAX* SPOROZOITE ANTIGENS ESSENTIAL FOR LIVER-STAGE INVASION

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ROLE OF ANTIMALARIAL ANTIBODIES IN FUNCTIONAL MODULATION OF THE NATURAL KILLER CELL RESPONSE TO MALARIA

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UNDERSTANDING THE ROLE OF INNATE IMMUNITY IN CONFERRING RESISTANCE TO MALARIA IN MALI

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ANTIBODY RESPONSES TO PVMSP8 IN ASYMPTOMATIC *P. VIVAX* INFECTED INDIVIDUALS FROM THE PERUVIAN AMAZON

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A SYSTEMS SEROLOGY APPROACH TO CAPTURE THE COMPLEXITY OF THE IMMUNE RESPONSE TO SEVERE *PLASMODIUM FALCIPARUM* MALARIA AND IDENTIFY THE KEY CORRELATES OF PROTECTION

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ELEVATED INNATE IMMUNE RESPONSES IN FEMALE MICE CONTRIBUTE TO PROTECTION INDUCED WITH RADIATION-ATTENUATED *PLASMODIUM BERGHEI* SPOROZOITES

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TRANSCRIPTOME ANALYSES REVEAL DISRUPTIONS IN THE HSP60-HSP70-TLR SIGNALING PATHWAY ARE CENTRAL TO THE PATHOGENESIS OF SEVERE MALARIAL ANEMIA IN KENYAN CHILDREN

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A LONGITUDINAL ASSESSMENT OF *P. FALCIPARUM* TRANSMISSION-BLOCKING IMMUNITY IN AREAS OF INTENSE AND DECLINING MALARIA TRANSMISSION INTENSITY IN UGANDA

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CHARACTERIZING SEROLOGICAL RESPONSES TO VARIANT SURFACE ANTIGENS IN FIRST *PLASMODIUM FALCIPARUM* INFECTIONS IN MALAWIAN INFANTS

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PMRBP1A SEROPREVALENCE IN GHANA

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CLINICAL FINDINGS AND DYNAMICS OF CYTOKINES AND CHEMOKINES IN HOSPITALIZED PATIENTS WITH *P. VIVAX*, CÓRDOBA COLOMBIA

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Malaria – Other

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DETERMINANTS OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY UPTAKE IN CÔTE D'IVOIRE: A MIXED-METHODS ASSESSMENT BASED ON THE OPPORTUNITY CAPACITY MOTIVATION FRAMEWORK

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NOVEL METHOD TO QUANTIFY INFRASTRUCTURE DAMAGE FOLLOWING SEVERE STORMS IN MOZAMBIQUE

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EXPLORING A NEW MALARIA SBC APPROACH—TARGETING COUPLES TO IMPROVE ITN USE IN MALAWI

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EXPLORING THE CULTURAL NORMS, BELIEF, PERCEPTION AND PRACTICES THAT CAN INFLUENCE IPTI IMPLEMENTATION IN NIGERIA: A QUALITATIVE STUDY APPROACH

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ASSESSING HEALTH SEEKING BEHAVIOUR OF CAREGIVERS IN MANAGING FEVER AND MALARIA ILLNESSES AMONG NIGERIAN INFANTS: A QUALITATIVE STUDY

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EARLY SEASONAL MALARIA CHEMOPREVENTION (SMC) IMPLEMENTATION CONTRIBUTED TO REDUCING MALARIA INCIDENCE IN SUD-OUEST REGION IN BURKINA FASO

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FEASIBILITY &LT ACCEPTABILITY OF EXTENDING SEASONAL MALARIA CHEMOPREVENTION TO CHILDREN AGED 5-10 YEARS &GT CHAD

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MY NET WILL GO ON: MODELING THE COST-EFFECTIVENESS OF MORE DURABLE INSECTICIDE-TREATED NETS VS MORE FREQUENT DISTRIBUTIONS IN SUB-SAHARAN AFRICA

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MODELLING TO SUPPORT THE IMPLEMENTATION OF MASS DRUG ADMINISTRATION DURING A COMPLEX EMERGENCY - CABO DELGADO, MOZAMBIQUE

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A HYBRID OF SCREEN-AND-TREAT AND INTERMITTENT PREVENTIVE THERAPY FOR THE PREVENTION OF MALARIA IN PREGNANCY: A RANDOMIZED CONTROLLED TRIAL

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RAISING THE FLOOR ON NETS: UPDATES FROM A CONVENING ON ITN QUALITY

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Malaria - Vaccine Development and Human Trials

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EPITOPE-SPECIFIC DIFFERENTIAL ANTIBODY RESPONSES TO *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN ARE ASSOCIATED WITH PROTECTION FROM MALARIA INFECTION IN MALIAN ADULTS

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IDENTIFICATION OF NOVEL GENETIC VARIANTS IN THE MALARIA VACCINE CANDIDATE PFRH5: STRUCTURE-GUIDED INSIGHTS INTO POTENTIAL FUNCTION

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INITIAL EVALUATION OF ESCHERICHIA COLI-PRODUCED RECOMBINANT EPA (ECREPA)

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MAPPING WITHIN-HOST ANTIGENIC ESCAPE AND ALLELE-SPECIFIC IMMUNITY OF *PLASMODIUM FALCIPARUM* VACCINE ANTIGENS

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STRATEGIC INTRODUCTION OF THE RTS,S/AS01 MALARIA VACCINE RELATIVE TO SCALE-UP OF EXISTING INTERVENTIONS

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A NOVEL MALARIA MULTISTAGE VACCINE BASED ON VACCINIA VIRUS-PRIME/AAV5-BOOST ELICITS STERILE PROTECTION AND TRANSMISSION BLOCKING EFFICACY

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IN-SILICO AND FUNCTIONAL CHARACTERIZATION OF *PLASMODIUM* MALARIAE RETICULOCYTE BINDING PROTEIN 2B

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PROTEIN INTERACTION ANALYSIS OF *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN VARIANTS WITH HUMAN IMMUNOPROTEINS EXPLAINS RTS,S VACCINE EFFICACY

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MOSQUITO-BITE INDUCED CONTROLLED HUMAN INFECTION WITH *P. VIVAX* IN MALARIA-NAÏVE STUDY PARTICIPANTS - CLINICAL PROFILE AND UTILITY OF MOLECULAR DIAGNOSIS

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THE IMPORTANCE FOR AGE-STRUCTURE AND DOSE SPACING TOWARDS THE EFFECTIVENESS OF THE RTS,S VACCINE TO REDUCE MALARIA BURDEN: A MATHEMATICAL MODELLING STUDY

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DIFFERENTIAL PATTERN OF IGG SUBCLASS RESPONSE AND IGG AVIDITY TO PMRBP 1A

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PROTECTION-FORWARD SCREENING STRATEGIES TO IDENTIFY PROTECTIVE LIVER-STAGE ANTIGENS IN A MODIFIED PRE-CLINICAL RODENT MALARIA INFECTION MODEL

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EFFICACY AND IMPACT OF THE RTS,S/AS01$_E$ MALARIA VACCINE ADMINISTERED ACCORDING TO DIFFERENT FRACTIONAL AND FULL DOSE REGIMENS UNDER CONDITIONS OF NATURAL EXPOSURE IN AFRICAN CHILDREN: INTERIM RESULTS FROM A PHASE 2B RANDOMIZED CONTROLLED TRIAL UP TO MONTH 32

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CHARACTERIZING THE EFFECTS OF MONTHLY VERSUS DELAYED-BOOST VACCINATION REGIMENS ON HUMORAL RESPONSES INDUCED BY THE *PLASMODIUM FALCIPARUM* BLOOD-STAGE VACCINE RH5.1/MATRIX-M™ IN TANZANIAN INFANTS 5-17 MONTHS OF AGE

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INFECTIVITY OF *PLASMODIUM* OVALE CARRIERS TO *ANOPHELES GAMBIAE* MOSQUITOES IN TANZANIA

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COMMUNITY-BASED SURVEILLANCE: A KEY PROCEDURE FOR CONTINUOUS FIELD ENTOMOLOGICAL DATA COLLECTION IN AREAS OF DIFFICULT ACCESS IN MALI

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SUSCEPTIBILITY STATUS OF MALARIA VECTORS TO INSECTICIDES COMMONLY USED FOR MALARIA CONTROL IN DIFFERENT GEO-ECOLOGICAL AREAS OF NEPAL

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SPECIES COMPOSITION AND SEASONAL PREVALENCE OF MALARIA VECTORS IN RISK AREAS OF NEPAL

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THE USE OF NEXT GENERATION INSECTICIDES FOR INDOOR RESIDUAL SPRAYING OF TEMPORARY STRUCTURES

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THE IMPACT OF LARVICIDING AS A SUPPLEMENTARY TOOL FOR MALARIA VECTOR CONTROL IN RUFIJI, TANZANIA

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ESTIMATING INSECTICIDAL CONCENTRATION IN AN INDOOR RESIDUAL SPRAYING CAMPAIGN USING A HANDHELD X-RAY FLUORESCENCE ANALYZER

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APPLICABILITY OF NANOPORE SEQUENCING AS POINT OF NEED TEST FOR DIARRHEA PATHOGENS

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Héma Alimatou, Nouhoun Barry, Amidou Diarra, Ben I. Soulama, Aïssata Barry, Denise Hien, Seydou Sombié, Issa Nebié, Alphonse Ouédraogo, Alfred B. Tiono, Sodiomon B. Sirima
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FILLING IN THE BLANKS: DEFINING EPIDEMIOLOGICALLY-RELEVANT UNITS OF CHOLERA TRANSMISSION IN AFRICA

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THE GUT MICROBIOME IN HAITIAN CHILDREN AND EXPOSURE TO FREE RESIDUAL CHLORINE IN DRINKING WATER

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ASSOCIATION BETWEEN ANTIBIOTIC USE AND LENGTH OF HOSPITAL STAY AMONG CHILDREN PRESENTED WITH ACUTE WATERY DIARRHEA IN A TERTIARY CARE HOSPITAL, KARACHI

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EVALUATION OF THE INHIBITION OF THE GROWTH OF ENTEROPATHOGENIC BACTERIA IN THE PRESENCE OF PROBIOTIC AGENTS

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MOLECULAR CHARACTERIZATION OF CARBAPENEM-RESISTANT AND EXTENDED-SPECTRUM B-LACTAMASES (ESBL) PRODUCING KLEBSIELLA PNEUMONIAE ISOLATED FROM HOSPITAL ENVIRONMENTS AND PATIENT SAMPLES IN BANGLADESH

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THE IMPACT OF THE COVID-19 PANDEMIC ON THE CHOLERA CONTROL PLAN IN BANGLADESH

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PARTIAL DOSES OF LIVE ORAL CHOLERA VACCINE CVD 103-HGR (PXVX0200) INDUCE SERUM VIBRIOCIDAL ANTIBODIES (SVA) IN CHILDREN

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Cestodes - Echinococcosis/ Hydatid disease

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A NOVEL MULTIPLEX REAL-TIME PCR ASSAY FOR THE MOLECULAR DIAGNOSIS OF METACESTODE INFECTIONS IN HUMANS

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ASSESSING THE SPATIAL TRANSFERABILITY OF A LOCAL-SCALE TAENIA SOLIUM TRANSMISSION MODEL USED TO ESTIMATE RESULTS OF CONTROL INTERVENTIONS IN RURAL VILLAGES IN NORTHWEST PERU

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THE RISE IN CAESAREAN SECTIONS OVER TIME IN THE DOMINICAN REPUBLIC

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MAD DOGS, MISSIONARIES, AND NOONDAY SUNS: AVOIDING SUNSTROKE AND SUNBURN IN COLONIAL AFRICA

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TROPICAL TROUBLES: NEURASTHENIA AMONG EX-PATS IN AFRICA AND INDIA, 1900-1914

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VACCINATION COVERAGE AND ITS DETERMINANTS AMONG CHILDREN IN CAMBODIA, MADAGASCAR, AND SENEGAL

Florian Verrier[1], Agathe de Lauzanne[2], Perlinot Herindrainy[3], Jean-Baptiste Diouf[4], Andrianirina Zo[5], Lison Ramblière[1], Touch Sok[6], Laurence Borand[2], Fatoumata Sarr[7], Muriel Vray[7], Jean-Marc Collard[3], Elsa Kermorvant-Duchemin[1], Elisabeth Delarocque-astagneau[8], Didier Guillemot[1], **Bich-Tram Huynh**[1]
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SICKLE CELL DISEASE IN ANGOLA. A PUBLIC HEALTH PROBLEM. GENETIC VARIABILITY AND DISEASE SEVERITY IN A COHORT OF PREGNANT WOMEN

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MONOCLONAL ANTIBODY USE IN TRAVELER MEDICINE: EXPENSIVE LUXURY?

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PERSONS WITH NODDING SEIZURES HAVE A MORE SEVERE FORM OF ONCHOCERCIASIS ASSOCIATED EPILEPSY WITH HIGH LEVELS OF ONCHOCERCA VOLVULUS INFECTION

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A VERBAL AUTOPSY ANALYSIS OF CHILDHOOD DEATHS IN RURAL GAMBIA

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MAPPING DISTRICT-LEVEL MEASLES-CONTAINING VACCINE COVERAGE VIA COMBINED ROUTINE AND SUPPLEMENTARY IMMUNIZATION IN LOW- AND MIDDLE-INCOME COUNTRIES

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TICK-BORNE RED MEAT ALLERGY: A SURVEY OF DIAGNOSED ALPHA-GAL SYNDROME IN SOUTH CAROLINA

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ETIOLOGIC INVESTIGATION OF PATIENTS DIAGNOSED WITH BACTERIOLOGICALLY UNCONFIRMED TUBERCULOSIS IN NORTHERN TANZANIA

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USE OF SPATIAL-TEMPORAL SEROPREVALENCE ESTIMATES AS A PRE-TEST PROBABILITY FOR IMPROVING INDIVIDUAL-LEVEL CLINICAL PREDICTION FOR DENGUE VIRUS INFECTION.

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CASE-STUDIES AND WORK FLOW INTEGRATION: HOW TO ENCOURAGE PRIMARY CARE PROVIDERS TO SCREEN FOR CHAGAS DISEASE

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CHARACTERIZING THE CO-INFECTION OF TYPHOID AND MALARIA AND ASSOCIATED RISK FACTORS IN AN ENDEMIC REGION OF PAKISTAN

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STANDARDIZATION OF DATA WITH ANNOTATED CASE REPORT FORMS FOR USE IN VISCERAL LEISHMANIASIS CLINICAL TRIALS IN PATIENTS WITH AND WITHOUT HIV CO-INFECTION

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LONG-TERM MORTALITY IN A PROSPECTIVE ADULT SEPSIS COHORT IN WESTERN UGANDA, 2017 TO 2022

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COINFECTIONS IN PATIENTS WITH ACUTE FEVER SYNDROME IN A TROPICAL AREA OF COLOMBIA

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Helminths - Nematodes - Filariasis (Epidemiology)

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COMMUNITY-BASED TRIAL ASSESSING THE IMPACT OF ANNUAL VERSUS SEMIANNUAL MASS DRUG ADMINISTRATION WITH IVERMECTIN PLUS ALBENDAZOLE AND PRAZIQUANTEL ON HELMINTH INFECTIONS IN NORTHWESTERN LIBERIA

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CHARACTERIZATION OF THE GENETICS AND EPIDEMIOLOGY OF A BRUGIA SP. IN DOMESTIC DOGS IN CHAD, AFRICA

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GEOSPATIAL MODELING OF THE BASELINE ONCHOCERCA VOLVULUS NODULE PREVALENCE IN ETHIOPIA AS AN AID TO ELIMINATION

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PERSISTENCE OF THE PREVALENCE AND ASSOCIATED CLINICAL MANIFESTATIONS OF LYMPHATIC FILARIASIS IN THE BONO REGION OF GHANA

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ONCHOCERCA VOLVULUS VECTORS SIMULIUM SPP.: PERSPECTIVES ON RESEARCH, BIONOMICS, AND IMPLICATIONS FOR ELIMINATION OF ONCHOCERCIASIS IN NIGERIA.

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DISTRICT AND SUB-DISTRICT PREVALENCE ESTIMATES OF LYMPHATIC FILARIASIS IN LEOGANE AND GRESSIER, HAITI, 2021: A CASE FOR DECISION-MAKING AT THE SUB-DISTRICT LEVEL

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PRELIMINARY REPORT ON PCR DETECTION OF BRUGIAN FILARIAL DNA IN BLOOD SMEAR NEGATIVE HUMAN BLOOD SAMPLES IN SRI LANKA

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ONCHOCERCIASIS ELIMINATION PROGRESS AFTER TWO DECADES OF TREATMENT; LAST MILE CHALLENGES IN MAHENGE, TANZANIA

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TOWARDS ONCHOCERCIASIS ELIMINATION: PROMISING TREND ON EPIDEMIOLOGICAL EVALUATION RESULTS IN TANZANIA

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MAXIMIZING THE POTENTIAL OF MOLECULAR XENOMONITORING TO SUPPORT FILARIASIS ELIMINATION

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COTE D'IVOIRE INTERRUPTS TRANSMISSION OF LYMPHATIC FILARIASIS FOR THE FIRST TIME IN 37 DISTRICTS DESPITE THE SARS-COV-2 PANDEMIC

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PROGRESS TOWARDS LYMPHATIC FILARIASIS ELIMINATION IN ETHIOPIA

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INVESTIGATION INTO POSSIBLE CAUSES FOR CONTINUED ONCHOCERCIASIS HIGH PREVALENCE IN THE WENCHI MUNICIPAL OF GHANA

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INVESTIGATING URBAN TRANSMISSION OF LYMPHATIC FILARIASIS IN MONROVIA

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PREDICTIVE RISK MAPPING OF LYMPHATIC FILARIASIS RESIDUAL HOTSPOTS IN AMERICAN SAMOA TO INFORM SURVEILLANCE AND CONTROL STRATEGIES

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MOLECULAR CHARACTERIZATION OF WUCHERERIA BANCROFTI IN NEPAL - A COUNTRY EMBARKING FOR LYMPHATIC FILARIASIS ELIMINATION

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(ACMCIP Abstract)

Helminths - Nematodes - Intestinal Nematodes

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A SYSTEMATIC REVIEW OF THE GLOBAL DISTRIBUTION OF HUMAN HOOKWORM SPECIES AND DIFFERENCES IN THEIR MORBIDITY EFFECTS

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GIT PARASITIC INFECTIONS IN BETA-THALASSEMIA MAJOR ADULT POPULATION, LAHORE, PAKISTAN

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CIRCULAR RNA EXPRESSION AND SECRETION IN A. SUUM TISSUES AND EXTRACELLULAR VESICLES

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(ACMCIP Abstract)

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RESISTANCE TO SINGLE-DOSE ALBENDAZOLE AND REINFECTION WITH INTESTINAL HELMINTHS AMONG CHILDREN AGES 2 TO 11 YEARS FROM THE PERUVIAN AMAZON REGION

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SPATIO-TEMPORAL DISTRIBUTION OF HELMINTH INFECTION AMONG A POPULATION OF THE KINTAMPO DISTRICT IN THE MIDDLE BELT OF GHANA

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NOVEL DIAGNOSTIC TOOLS FOR SOIL TRANSMITTED HELMINTHS WITH NON-INVASIVE CAPABILITY. THE NEAR-INFRARED SPECTROSCOPY AND ARTIFICIAL INTELLIGENCE

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STRONGYLOIDES STERCORALIS INFECTIONS IN THE MILITARY HEALTH SYSTEM

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ASSESSMENT OF CETHYLTRIMETHYLAMMONIUM BROMIDE (CTAB) BASED METHOD FOR THE EXTRACTION OF GEO-HELMINTH DNAS FROM STOOLS FOR MOLECULAR DIAGNOSTIC OF GEO-HELMINTHIASIS

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(ACMCIP Abstract)

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COMPARISON OF MICROSCOPY-BASED METHODS AND QPCR FOR QUANTITATION OF HOOKWORM INFECTIONS IN AN ENDEMIC COMMUNITY IN SOUTHERN INDIA

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Moutongo Mouandza Reinne, Mourou Jean Romain, Matotou Sibi Roger, Ekomi Bernadette, Mawili-Mboumba Denise Patricia, Bouyou Akotet Marielle Karine
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THE TIMIRI EFFECT OF DEWORMING ON IMMUNE RESPONSES (TEDI) BIRTH COHORT STUDY-UPDATES FROM THE FIRST YEAR

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HIGH THROUGHPUT PHENOTYPIC SCREENING FOR ANTHELMINTIC DRUG DISCOVERY

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USING IN-DEPTH PROCESS MAPPING TO IDENTIFY OPPORTUNITIES TO OPTIMIZE MASS DRUG ADMINISTRATION FOR SOIL-TRANSMITTED HELMINTHS

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TOXOCARIASIS: AN EMERGING PUBLIC HEALTH CONCERN IN RICHLAND COUNTY, SOUTH CAROLINA?

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THE THERAPEUTIC EFFICACY OF ALBENDAZOLE AGAINST SOIL TRANSMITTED HELMINTHS IN DISTRICTS WITH A VARIED HISTORY OF ALBENDAZOLE MASS DRUG ADMINISTRATION IN NORTHWESTERN TANZANIA

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GENOMIC ANALYSIS OF TRICHURIS TRICHIURA USING OXFORD NANOPORE TECHNOLOGY

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GEOGRAPHIC SCREENING FOR CHRONIC PARASITIC INFECTIONS PRIOR TO KIDNEY TRANSPLANT: AN INSTITUTIONAL EXPERIENCE IN A NON-ENDEMIC AREA

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ASSESSING THE IMPACT OF IVERMECTIN-CONTAINING MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS ELIMINATION ON SCABIES PREVALENCE IN SAMOA

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THE NEGLECTED TROPICAL DISEASES AND WATER SANITATION AND HYGIENE DATA MERGE VISUALIZATION FOR EASY DECISION MAKING AND PRIORITIZATION IN TANZANIA

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THE IMPACT OF PRIORITY REVIEW VOUCHERS ON SMALL BIOPHARMACEUTICAL COMPANIES

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MASS DRUG ADMINISTRATION COVERAGE AND DETERMINANTS OF DRUG UPTAKE FOR ELIMINATION OF ONCHOCERCIASIS TRANSMISSION IN ULANGA DISTRICT, TANZANIA

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COMPARISON OF HOUSEHOLD PARTICIPATION IN COMMUNITY-DIRECTED TREATMENT FOR ONCHOCERCIASIS AND LYMPHATIC FILARIASIS ELIMINATION IN TWO COUNTRIES

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SOCIO-CULTURAL AND MOBILITY FACTORS AFFECTING UPTAKE AND INCREASE OF MASS DRUG ADMINISTRATION COVERAGE AMONG NOMADIC PASTORALISTS IN SOUTH SUDAN

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INTERVENTION PACKAGE TO IMPROVE MASS DRUG ADMINISTRATION FOR NEGLECTED TROPICAL DISEASES AMONG MOBILE AND MIGRANT POPULATIONS MALI

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POST MASS DRUG ADMINISTRATION COVERAGE EVALUATION SURVEYS IN ANGOLA: IMPLEMENTATION AND LESSONS LEARNED AFTER IMPLEMENTATION ACROSS 18 DISTRICTS

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TRACHOMA AND ONCHOCERCIASIS: THE BURDEN OF NEGLECTED TROPICAL DISEASES IN SOUTH SUDAN

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Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Cellular and Molecular Biology (Including Leishmania and Trypanosomes)

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MOLECULAR DIAGNOSTIC OF CRYPTOSPORIDIUM SPP., GIARDIA DUODENALIS, AND ENTEROCYTOZOON BIENEUSI IN WILD ANIMALS SEIZED BY FOREST AND WILDLIFE SERVICE FROM PERU

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ESSENTIAL ROLES OF DIVERGENT APICOMPLEXAN ATP SYNTHASE SUBUNITS CONTAINING CHCH DOMAINS

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(ACMCIP Abstract)

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LMJPES MAY PLAY A CRITICAL ROLE IN LEISHMANIA MAJOR INFECTIVITY

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EQUAL CARDIAC TROPISM OF TWO GENOTYPES OF TRYPANOSOMA CRUZI IN ZEBRAFISH LARVAE

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(ACMCIP Abstract)

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TRANSMISSION OF AFRICAN ANIMAL TRYPANOSOMIASIS IN THE FOREST ZONE OF GHANA

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(ACMCIP Abstract)

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Epidemiology (Including Leishmania and Trypanosomes)

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THE PREVALENCE OF INTESTINAL PARASITES AMONG STOOL OVA AND PARASITE SAMPLES PROCESSED AT TRIPLER ARMY MEDICAL CENTER (TAMC), OAHU HAWAII, 2000 TO 2019

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RISK FACTORS FOR PROGRESSION TO CHRONIC CHAGAS CARDIOMYOPATHY: A SYSTEMATIC REVIEW AND META-ANALYSIS

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A SCOPING REVIEW OF THE LEISHMANIASES IN KENYA

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LEISHMANIASIS: DISEASE PATTERN AND RESPONSE TO TREATMENT IN CHILDREN

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A CASE SERIES OF AUTOCHTHONOUS CHAGAS DISEASE IDENTIFIED AMONG CALIFORNIA AND ARIZONA BLOOD DONORS

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BURDEN OF CRYPTOSPORIDIOSIS IN FAMILIES LIVING IN BANGLADESH DURING THE COVID-19 PANDEMIC

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Kinetoplastida and Other Opportunistic and Anaerobic Protozoa - Immunology (Including Leishmania and Trypanosomes)

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THE ROLE OF DIHYDROLIPOYL DEHYDROGENASE (DLD) IN THE IMMUNOPATHOGENESIS OF LEISHMANIA MAJOR

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(ACMCIP Abstract)

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PARASITE, MACROPHAGE AND CD8$^+$ T CELLS IN THE PATHOGENESIS OF DISSEMINATED LEISHMANIASIS

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ASSESSING THE IMMUNOPROPHYLACTIC PROPERTIES OF A NOVEL TRYPANOSOMA CRUZI CHIMERIC PROTEIN

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THERAPEUTIC EFFECT OF HOOKWORM DERIVED ANTI-INFLAMMATORY PROTEINS ON CHAGAS MYOCARDITIS

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SALIVARY GLAND PROTEINS OF PHLEBOTOMUS ARGENTIPES AND DETECTION OF ANTI-SALIVA ANTIBODIES BY OPTIMIZED INDIRECT ELISA ASSAY

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(ACMCIP Abstract)

One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

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UPTAKE AND DETERMINANTS OF RABIES PRE-EXPOSURE PROPHYLAXIS AMONG AT-RISK TRAVELERS

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MODELLING MODIFIABLE FACTORS ASSOCIATED WITH THE PROBABILITY OF HUMAN RABIES DEATHS IN NIGERIA IN THE CONTEXT OF SPARSE DOG BITE SURVEILLANCE DATA

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SNAKEBITE ENVENOMATION IN BURKINA FASO, PROSPECTIVE STUDY ON THE DESCRIPTION AND ECOLOGICAL PARAMETERS OF SNAKES IN THE HAUTS BASSINS REGION FROM 2019 TO 2020

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HIGHLY-MULTIPLEXED SEROLOGY FOR NON-HUMAN MAMMALS

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HUMAN-ANIMAL CONTACT NETWORKS: A NOVEL AND POWERFUL TOOL FOR ZOONOTIC DISEASE PREPAREDNESS AND RESPONSE

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IMPLEMENTATION OF THE ONE HEALTH APPROACH AND PLASTIC WASTE MANAGEMENT IN AFRICA: ISSUES, CHALLENGES AND PERSPECTIVES

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EVALUATION OF THE KNOWLEDGE AND LEVEL OF CONCERN OF RABIES AMONG SOUTH CAROLINA RESIDENTS FOR APPROPRIATE PUBLIC HEALTH EDUCATION PROGRAMS

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EXPLORING THE DETERMINANTS AND INDICATORS OF POULTRY FECES MANAGEMENT BEHAVIORS IN RURAL WESTERN UGANDA

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ESTABLISHING A DEMOGRAPHIC SURVEILLANCE PLATFORM AS A TOOL FOR IMPLEMENTING THE BOHEMIA CLINICAL TRIAL IN MOPEIA, MOZAMBIQUE

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TRANSFORMATION OF IVERMECTIN AND 3-O-DEMETHYL IVERMECTIN IN SOILS: IMPLICATIONS FOR ENVIRONMENTAL IMPACT OF IVERMECTIN MASS DRUG ADMINISTRATION

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MEASUREMENT IN THE STUDY OF HUMAN EXPOSURE TO ANIMAL FECES: A SYSTEMATIC REVIEW AND AUDIT

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OPPORTUNITIES TO INTERRUPT TRANSMISSION OF ENTEROPATHOGENS OF POULTRY ORIGIN IN MAPUTO, MOZAMBIQUE: A TRANSMISSION MODEL ANALYSIS

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STRENGTHENING NATIONAL AND CROSS-BOUNDARY OUTBREAK RESPONSE TO ZOONOSES IN LIBYA USING A ONE HEALTH SYSTEMS ASSESSMENT APPROACH

Lauren N. Miller[1], Alexander G. Linder[1], Alanna S. Fogarty[1], Hatem Almeslati[2], Abdulaziz Zorgani[3], Hanan M. Abuabaid[3], Milad Farhat[2], Omar Elahmer[3], Claire J. Standley[1], Erin M. Sorrell[1]
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Pneumonia, Respiratory Infections and Tuberculosis

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TUBERCULOSIS SEPSIS, CLINICAL FEATURES, TREATMENT OUTCOMES AND MORTALITY RISK: A SYSTEMATIC REVIEW AND META-ANALYSIS OF CASE REPORTS

Bayode Romeo Adegbite[1], Nadege Elegbede-Adegbite[2], Ronald Edoa[3], Ayola Akim Adegnika[3], Martin Grobusch[3]
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CLINICAL OUTCOMES AMONG INDIVIDUALS INFECTED WITH SARS-COV-2 IN RURAL ZAMBIA-A LONGITUDINAL STUDY

Pamela Sinywimaanzi[1], Morris Sianyinda[1], Edgar Simulundu[1], Catherine G. Sutcliffe[2], Philip E. Thuma[1], Katherine Z.J Fenstermacher[3], Juliet A. Morales[2], Passwell Munachoonga[1], Mutinta Hamahuwa[1], Mathias Muleka[1], Mwaka Monze[4], Richard E. Rothman[3], Andrew Pekosz[2]
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COVID OPS - AN INNOVATIVE ACADEMIC-PUBLIC HEALTH PARTNERSHIP FOR PANDEMIC MITIGATION

Edward B. Davila[1], Angela Clendenin[1], Yao Akpalu[2], Santos Navarrette[2], Chad E. Wootton[1], Joshua Kissee[1], Kevin P. McGinnis[1], Seth Sullivan[3], Maria Perez Patron[1], Italo Zecca[1], Caroline T. Weldon[4], Alyssa D. McNulty-Nebel[1], Rebecca SB Fischer[1]
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COMPARISON OF 3 PRESENTATIONS OF READY-TO-USE POWDERED 7H9-OADC MEDIUM FOR THE DETECTION OF GROWTH AND SUSCEPTIBILITY TO ISONIAZID, RIFAMPIN, AND PYRAZINAMIDE OF M. TUBERCULOSIS BY THE MODS CULTURE METHOD FROM SPUTUM SAMPLES

Jhojailith Rodríguez, Roberto Alcántara, Joseline Rodriguez, Elisa Roncal, Ricardo Antiparra, Mirko Zimic, Patricia Sheen
Peruvian University Cayetano Heredia, Lima, Peru

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BACTERIAL PNEUMONIA ASSOCIATED WITH HEALTH CARE IN A HOSPITAL IN NORTHWESTERN OF COLOMBIA, 2017-2019

Linda M. Chams, María F. Yasnot, Carlos J. Castro
Grupo de Investigaciones Microbiológicas y Biomédicas de Córdoba (GIMBIC)-Universidad de Córdoba, Monteria, Colombia

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ELEVATED PERIPHERAL BLOOD VIRAL LOADS ON ADMISSION TO HOSPITAL PREDICT SEVERE COVID-19 AND MORTALITY IN KENYAN ADULTS

Evans Raballah[1], Samuel Anyona[2], Clinton Onyango[2], Qiuying Cheng[3], Ivy Hurwitz[3], Elly O. Munde[2], Sharley A. Wasena[2], Benjamin H. McMahon[4], Christophe G. Lambert[5], Kristan A. Schneider[6], Philip D. Seidenberg[7], Collins Ouma[2], Douglas J. Perkins[3]
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PROFILING AUTOANTIBODY SIGNATURES AFTER SARS-COV-2 INFECTION OR COVID-19 VACCINATION UTILIZING HIGH-DENSITY PEPTIDE MICROARRAYS

Kirsten Heiss, Yuvaraj Mahendran, Fiordiligie Casilag, Renate Sekul, Volker Stadler
PEPperPRINT GmbH, Heidelberg, Germany

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PREVALENCE OF SARS-COV-2 VARIANTS IN VACCINATED AND UNVACCINATED POULATION IN THE AMAZONAS REGION, PERU

Luis M. Rojas[1], Cecilia Pajuelo-Reyes[2], Angelica M. Vigil[2], Carla C. Montenegro[2], Julio C. Sandoval[2], Christian C. Campos[1], Juan R. Tejedo[2], Rafael Tapia-Limonchi[2], Pablo Tsukayama[3], Stella M. Chenet[2]
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FACILITY-LEVEL UPTAKE OF THE NATIONAL POLICY GOVERNING COVID-19 TESTING, QUARANTINE AND ISOLATION IN THE HEALTHCARE WORKFORCE: LESSONS FROM THE NIGERIAN MILITARY HEALTH SYSTEM

Ayesha Rashid[1], Elizabeth H. Lee[2], Usman Adekanye[3], Ismail Olajide Lawal[4], Catherine Godfrey[5], Yakubu Adamu[4], Patricia Agaba[6], Laura Chittenden[4], Nathan Okeji[3], Priyanka Desai[6]
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BACTERIAL AND VIRAL ETIOLOGY OF ACUTE RESPIRATORY INFECTION AMONG THE FORCIBLY DISPLACED MYANMAR NATIONALS (FDMNS) IN FRAGILE SETTINGS IN COX'S BAZAR- A PROSPECTIVE CASE-CONTROL STUDY

Abu Bakar Siddik[1], Nabid Anjum Tanvir[2], Firdausi Qadri[2], Valentina Picot[3]
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SARS-COV-2 DETECTION AND SEROLOGICAL RESPONSE IN THE FORCIBLY DISPLACED ROHINGYA MYANMAR NATIONALS (FDMN) IN COX'S BAZAR

Nabid Anjum Tanvir[1], Abu Bakar Siddik[2], Firdausi Qadri[1], Valentina Picot[3]
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ROLE OF BACTERIA AND THEIR ANTIMICROBIAL RESISTANCE PATTERN IN COMMUNITY ACQUIRED PNEUMONIA IN BANGLADESH

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INTEGRATION OF POINT OF CARE TESTING FOR DIABETES AND HYPERTENSION IN COVID-19 RAPID ANTIGEN SCREENING IN JOHANNESBURG, SOUTH AFRICA

Alana Brennan[1], Gesine Meyer-Rath[1], Adena Gordon[1], Mohammed Majam[2], Vanessa Msolomba[2], Francois Venter[2], Sergio Carmona[3], Kekeletso Kao[3], Beatrice Vetter[3]
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CLINICAL OUTCOMES IN A COHORT OF NEWBORNS WITH CONFIRMED COVID-19 IN A REFERENCE HOSPITAL IN SALVADOR, BAHIA, BRAZIL

Lorena Martins[1], Kevan Akrami[1], Géssica Vasconcelos[1], Ricardo Silva[1], Danielle Barreto[2], Bernardo Costa[1], Patricia Oliveira[2], Aline Santos[2], Fernanda Suassuna[2], Juan Calcagno[2], Isadora Cristina Siqueira[1]
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SENTINEL SURVEILLANCE OF SEVER ACUTE RESPIRATORY ILLNESS SARI IN THE KINGDOM OF JORDAN DURING THE SARS-COV-2 PANDEMIC FROM 2020 AND 2021

Mayar Maged Said[1], Tamer Saied[1], Mahmoud Gazo[2], Bassem Hamdy[1], Omar Nowar[1], Samuel Y. Levin[1]
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XPERT MTB/RIF ULTRA ASSAY FOR THE DIAGNOSIS OF TUBERCULOUS MENINGITIS USING CEREBROSPINAL FLUID OF CHILDREN IN BANGLADESH

S. M. Mazidur Rahman, Rumana Nasrin, Asif Md. Rezaur Rahman, Faisal Kabir, Md. Fahim Ather, A.S.M. Iftekhairul Islam, Senjuti Kabir, Shahriar Ahmed, Mohammad Khaja Mafij Uddin, Razia Khatun, Sayera Banu
International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh

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SARS-COV-2 VIRAL LOAD DYNAMICS IN THE UPPER RESPIRATORY TRACT AND PERIPHERAL BLOOD IN A DIVERSE COHORT OF HOSPITALIZED PATIENTS IN NEW MEXICO: PRE- AND POST-DELTA VARIANT

Ivy Hurwitz[1], Teah Amirkabirian[1], Alexandra V. Yingling[1], Qiuying Cheng[1], Amber Castillo[1], Shuguang Leng[1], Kendall Hoff[2], Alexandra Do[1], Dominic Lundquist[1], Susie Pham[1], Samuel B. Anyano[3], Evans Raballah[4], Jehanzaeb Khan[1], Michelle Harkins[5], Mark Unruh[6], Anthony Worsham[7], Christophe Lambert[1], J. Pedro Teixeira[8], Philip Seidenberg[9], Kristan Schneider[10], Jens Langsjoen[7], Jeremy Edwards[2], Douglas J. Perkins[1]
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THE SEVERITY OF COVID-19 PATIENTS IS ASSOCIATED WITH ZINC AND INTERLEUKIN 6 LEVELS

Andrea Roman-Pimentel[1], Sandra Medina-Caceres[1], Miguel Angel Aguilar-Luis[1], Yordi Tarazona[2], Hugo Carrillo-Ng[2], Wilmer Silva-Caso[1], Sungmin Kym[3], Carmen Tinco-Valdez[2], **Juana Del Valle-Mendoza**[1]
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Water, Sanitation, Hygiene and Environmental Health

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ASSESSING THE SUSTAINED EFFECTS OF A WATER FILTER INTERVENTION IN RWAMAGANA, RWANDA: A 30-MONTH LONGITUDINAL STUDY

Sabrina Sharmin Haque[1], Miles Kirby[2], Alemayehu Gebremariam[3], Matthew Freeman[1], Howard Chang[1], Thomas Clasen[1]
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DEVELOPMENT AND EVALUATION OF RT-QPCR ASSAYS FOR SAR-COV-2 VARIANT OF CONCERN (VOCS) DETECTION IN CLINICAL AND ENVIRONMENTAL SPECIMENS

Suporn Pholwat[1], Saiful Arefeen Sazed[2], Md. Ohedul Islam[2], Tania Ferdousi[2], Md. Hamim Bhuiyan[2], Tonima Rahman[2], Sabrina Karim Resha[2], Syed Shahnewaj Siraj Sony[2], Md. Safiqul Islam[2], Md. Ashiqul Alam Khan[2], Erin Grace Wettstone[1], Md. Shafiul Alam[2], Rashidul Haque[2], Mami Taniuchi[1]
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ASSOCIATIONS BETWEEN MATERNAL NUTRITIONAL STATUS, INFLAMMATION, STRESS, AND ESTRIOL DURING PREGNANCY AND CHILD STRESS RESPONSE

Md Ziaur Rahman[1], Alexis Silvera[2], Zachary Butzin-Dozier[2], Farheen Jamshed[2], Sophia T. Tan[2], Caitlin Hemlock[2], Andrew N. Mertens[2], Douglas A. Granger[3], Firdaus S. Dhabhar[4], Christine P. Stewart[5], Lia C. H. Fernald[2], Rubhana Rakib[1], Dora Il'yasova[6], Ivan Spasojevic[6], Idan Shalev[7], Shahjahan Ali[1], Mohammed Rabiul Karim[1], Sunny Shahriar[1], Anjan Kumar Roy[1], Abul K. Shoab[1], Syeda L. Famida[1], Md. Saheen Hossen[1], Palash Mutsuddi[1], Salma Akter[1], Leanne Unicomb[1], Lisa Hester[8], Ruchira Tabassum Naved[1], Gabrielle Shuman[2], Liying Yan[9], Benjamin F. Arnold[10], Alan E. Hubbard[2], John M. Colford Jr[2], Stephen P. Luby[11], Mahbubur Rahman[1], Audrie Lin[2]
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HYGIENE ASSESSMENT, PARASITOLOGICAL AND MICROBIOLOGICAL ANALYSIS OF WATER USED BY RESTAURANTS AND STREET VENDORS IN OWERRI METROPOLIS, IMO STATE NIGERIA

Chigbo Medo Ajero
Imo State University, Owerri Imo State Nigeria, Owerri, Nigeria

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CAN THE INTRODUCTION OF THE "PERSONAL DOMAIN" HELP US IMPROVE WASH INTERVENTIONS?

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IMPACT OF SAMPLE COLLECTION AND PROCESSING ON THE DETECTION OF PATHOGENS FOR WASTEWATER SURVEILLANCE

Md. Ohedul Islam[1], Suporn Pholwat[2], Stephanie A. Brennhofer[2], Erin Wettstone[2], Tania Ferdousi[1], Md. Hamim Bhuiyan[1], Tonima Rahman[1], Sabrina Karim Resha[1], Sayed Shahnewaj Siraj Sony[1], Md. Safiqul Islam[1], Md. Ashiqul Alam Khan[1], Rashidul Haque[1], Mami Taniuchi[3]
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ASSOCIATION BETWEEN WATER, SANITATION, AND HYGIENE ACCESS AND THE PREVALENCE OF SOIL-TRANSMITTED HELMINTH AND SCHISTOSOME INFECTIONS IN WOLAYITA ZONE, ETHIOPIA

Anna Elizabeth Phillips[1], Kalkidan Mekete[2], Ewnetu Firdawek[3], Alison Ower[4], Rosie Maddren[5], Roy Anderson[5], Mihretab Salasibew[6]
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THE IMPACT OF WATER, SANITATION, AND HYGIENE INTERVENTIONS BY SEASON: A SYSTEMATIC REVIEW AND META-ANALYSIS

Sydney C. Hubbard[1], Hemali H. Oza[1], Jennyfer Wolf[2], Benjamin F. Arnold[3], Matthew C. Freeman[1], Karen Levy[4]
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PREVENTIVE CHEMOTHERAPY AND WATER CHLORINATION: QUASI-EXPERIMENTAL IMPACT ANALYSIS OF COMBINED PROGRAMS ON HELMINTH RISK IN KENYA

Mark Minnery[1], Andrew Kitchel[2]
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REGIONAL SCALE PATHOGEN CONCENTRATIONS AND ASSOCIATED HUMAN HEALTH RISKS DUE TO WASTEWATER REUSE IN THE MEZQUITAL VALLEY, MEXICO

Leon M. Espira[1], Jesse D. Contreras[2], Eunice E. Felix-Arellano[3], Christina Siebe[4], Marisa Mazari-Hiriart[5], Horacio Riojas-Rodríguez[3], Joseph N.S Eisenberg[1]
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CAPTURING WATER QUALITY VARIABILITY USING A REPEATED MEASURES DESIGN: IMPLICATIONS FOR THE SELECTION OF SAMPLING STRATEGIES IN ENVIRONMENTAL STUDIES

Andrea Sosa-Moreno[1], Rebecca Kann[2], Gwenyth O. Lee[1], Gabriela Vasco[3], Gabriel Trueba[3], Joseph N.S Eisenberg[1], Karen Levy[2]
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ASSOCIATIONS BETWEEN WATER, SANITATION, AND HYGIENE AND CHILDREN'S MALNUTRITION AND MENTAL HEALTH IN METRO MANILA, PHILIPPINES: PRELIMINARY RESULTS OF A CROSS-SECTIONAL STUDY

Stephanie Sangalang[1], Christian Borgemeister[1], Thomas Kistemann[2], Patricia Singson[3], Mark Ramos[4], John Juliard Go[5], Rammel Martinez[5], Thomas Dela Cruz[5]
[1]University of Bonn, Center for Development Research, Bonn, Germany, [2]University of Bonn, Institute for Hygiene and Public Health, Bonn, Germany, [3]Ateneo de Manila University, Quezon City, Philippines, [4]University of the Philippines, Diliman, Diliman, Philippines, [5]World Health Organization, Manila, Philippines

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IMPROVING AND SUSTAINING HAND HYGIENE BEHAVIOR IN RURAL LIBERIAN HOSPITALS

Ronan Arthur[1], Lucy Tantum[1], Ashley Styczynski[1], John Gilstad[2], Philip Bemah[3], Stephen Luby[1]
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THE RELATIONSHIP BETWEEN SYSTEMIC INFLAMMATION AND GROWTH FALTERING IN BANGLADESHI CHILDREN IS MODIFIED BY IMPROVED NUTRITION AND WASH

Caitlin Hemlock[1], Andrew N. Mertens[1], Sophia T. Tan[1], Christine P. Stewart[2], Alan E. Hubbard[1], Md. Ziaur Rahman[3], Mohammed Rabiul Karim[3], Sunny Shahriar[3], Shahjahan Ali[3], Abul K. Shoab[3], Md. Saheen Hossen[3], Palash Mutsuddi[3], Syeda Luthfa Famida[3], Salma Akther[3], Mahbubur Rahman[3], Leanne Unicomb[3], Benjamin F. Arnold[4], Stephen P. Luby[5], John M. Colford Jr[1], Firdaus S. Dhabhar[6], Lia C. H. Fernald[7], Audrie Lin[1]
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CTropMed® Exam Committee Meeting

Convention Center - Room 202 (2nd Floor)
Tuesday, November 1, 12:15 p.m. - 1:30 p.m. U.S. Pacific Time Zone

Symposium 63A

Demystifying NIH Grants for Trainees

Convention Center - Room 6AB (6th Floor)
Tuesday, November 1, 12:15 p.m. - 1:15 p.m. U.S. Pacific Time Zone

Brief presentation then Q and A with Dr. Christine Jessup, PhD, Program Officer from the Division of International Training and Research (DITR), Fogarty International Center, and 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

Deirdre Joy
Program Officer, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

Malla Rao
Parasitology and International Programs Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

12:15 p.m.
INTRODUCTION

12:25 p.m.
FOGARTY OPPORTUNITIES

Christine Jessup
Division of International Training and Research (DITR), Fogarty International Center (FIC), National Institutes of Health (NIH), Bethesda, MD, United States

12:35 p.m.
NIAID OPPORTUNITIES

LeShawndra N. Price
Division of Extramural Activities, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

Late-Breaker Abstract Session 64

Late-Breakers in Clinical and Applied Sciences

Convention Center - Room 6C (6th Floor)
Tuesday, November 1, 12:15 p.m. - 1:30 p.m. U.S. Pacific 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

Miguel Cabada
University of Texas Medical Branch, Galveston, TX, United States

Sharon M. Tennant
University of Maryland, Baltimore, MD, United States

Poster Session B Viewing

Convention Center - Room 4A (4th Floor)
Tuesday, November 1, 1:45 p.m. – 4 p.m. U.S. Pacific Time Zone

Scientific Session 65

Malaria: Vaccine Development and Human Trials

Convention Center - Room 6AB (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

CHAIR

Moriya Tsuji
Columbia University Medical Center, New York, NY, United States

Debashree Goswami
Seattle Childrens Research Institute, Seattle, WA, United States

1:45 p.m. **1167**

PRECLINICAL DEVELOPMENT OF A NANOPARTICLE MALARIA TRANSMISSION BLOCKING VACCINE PFS230D1-EPA WITH MATRIX-M™ ADJUVANT

David Narum[1], Kelly M. Rausch[1], Raul Herrera[1], Robert Morrison[1], Jenny M. Reiner[2], Deepika Seethamraju[1], Emma K. Barnafo[1], Lynn E. Lambert[1], Karine Reiter[1], Nicholas MacDonald[1], Lisa R. Olano[3], Motoshi Suzuki[3], Francisco Otaizo-Carrasquero[4], Sachy Orr-Gonzalez[1], Brandi Richardson[1], Tarik Ouahes[1], Olga Muratova[1], Nada Alani[1], Puthupparampil V. Scaria[1], Vu Nguyen[1], Craig Martens[4], Jennifer Hume[1], Gale Smith[5], Irfan Zaidi[1], Greg M. Glenn[5], Patrick E. Duffy[1]
[1]Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [2]Novavax AB, Uppsala, Sweden, [3]Protein Chemistry Section, Research Technologies Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [4]Genomic Technologies Section, Research Technologies Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [5]Novavax, Inc, Gaithersburg, MD, United States

2 p.m. **1168**

PFRIPR5, A NOVEL BLOOD-STAGE MALARIA VACCINE CANDIDATE, FORMULATED WITH ADJUVANTS FOR HUMAN USE, INDUCED POTENT GROWTH INHIBITORY ANTIBODIES

Eizo Takashima[1], Hikaru Nagaoka[1], Ricardo Correia[2], António Roldão[2], Akihisa Fukushima[3], Nicola Viebig[4], Takafumi Tsuboi[5]
[1]Division of Malaria Research, Proteo-Science Center, Ehime University, Matsuyama, Japan, [2]iBET and ITQB-NOVA, Oeiras, Portugal, [3]Sumitomo Pharma Co., Ltd, Vaccines, Osaka, Japan, [4]European Vaccine Initiative, UniversitätsKlinikum Heidelberg, Heidelberg, Germany, [5]Division of Cell-Free Sciences, Proteo-Science Center, Ehime University, Matsuyama, Japan

2:15 p.m. **1169**

WELL-MAINTAINED EFFICACY OF THE MALARIA VACCINE CANDIDATE R21 WITH MATRIX-M™ ADJUVANT (R21/MM) IN BURKINA FASO CHILDREN OVER 30 MONTHS WITH A SINGLE BOOSTER DOSE

Magloire H. Natama[1], Mehreen S. Datoo[2], Ousmane Traoré[1], Athanase Somé,[1], Toussaint Rouamba[1], Duncan Bellamy[3], Felix Ido[1], Prisca Yameogo[1], Christian Tahita[1], Youssouf Bagayan[1], Debora Sangara[1], Florence Ouedraogo[1], Rachidatou Soma[1], Faizatou Sorgho[1], Fernando Ramos-Lopez[2], Alison Lawrie[2], Rachel Roberts[2], Matthew Cairns[4], Nicola Williams[5], Jenny Reimer[6], Innocent Valéa[1], Hermann Sorgho[1], Katie J. Ewer[3], Umesh Shaligram[7], Adrian V. S. Hill[2], Halidou Tinto[1]

[1]Unité de Recherche Clinique de Nanoro, Institut de Recherche en Sciences de la Santé, Nanoro, Burkina Faso, [2]Centre for Clinical Vaccinology and Tropical Medicine, The Jenner Institute, University of Oxford, Oxford, United Kingdom, [3]Jenner Institute, University of Oxford, Oxford, United Kingdom, [4]London School of Hygiene and Tropical Medicine, London, United Kingdom, [5]Department of Primary Care, University of Oxford, Oxford, United Kingdom, [6]Novavax, Uppsala, Sweden, [7]Serum Institute of India Pvt Ltd, Pune, India

2:30 p.m. **1170**

SOLUBLE PFCSP (FMP013) ADJUVANTED IN ALFQ INDUCES STERILE PROTECTION IN PHASE I TRIAL WITH CONTROLLED HUMAN MALARIA INFECTION CHALLENGE IN MALARIA-NAÏVE ADULTS

Paul M. Robben[1], Jack N. Hutter[2], Lei Zhu[1], Heather Galli[1], Christine E. Lee[1], Michael A. Koren[1], Nathan K. Jansen[1], Melinda J. Hamer[1], James E. Moon[1], Daniel J. Selig[1], Paul C. Adjei[1], Kristen Merino[3], Dallas R. Brown[1], Tanisha M. Robinson[1], Elizabeth Duncan[1], Arnel D. Belmonte[4], Martha Sedegah[4], Ines E. Naouar[1], Jessica Bolton[1], Wathsala K. Wijayalath[4], Evelina Angov[1], Mangala Rao[1], Gary Matyas[1], Elke Bergmann-Leitner[1], Lorraine Soisson[5], Sheetij Dutta[1], Jason A. Regules[1]

[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]Kombewa Clinical Research Center, Kombewa, Kenya, [3]Tulane National Primate Research Center, Covington, LA, United States, [4]Navy Medical Research Center, Silver Spring, MD, United States, [5]United States Agency for International Development Malaria Vaccine Program, Washington, DC, United States

2:45 p.m. **1171**

GENERATION AND CLINICAL DEVELOPMENT OF A *PLASMODIUM FALCIPARUM* GENETICALLY ATTENUATED PARASITE VACCINE WITH COMPLETE LATE LIVER STAGE ARREST (PFSPZ-LARC2)

Debashree Goswami[1], William Betz[1], Janna Armstrong[1], Hardik Patel[1], B. Kim Lee Sim[2], Tao Li[2], Sean C. Murphy[3], Ashley M. Vaughan[1], Stephen L. Hoffman[2], Stefan H.I. Kappe[1]

[1]Center for Global Infectious Disease Research, Seattle Childrens Research Institute, Seattle, WA, United States, [2]Sanaria Inc., Rockville, MD, United States, [3]Department of Laboratory Medicine and Pathology and Department of Microbiology, University of Washington, Seattle, WA, United States

3 p.m. **1172**

INTRADERMALLY DELIVERED GLYCOLIPID-ADJUVANTED RADIATION-ATTENUATED SPOROZOITES ARE PROTECTIVE IN PRIME-AND-TRAP MALARIA VACCINATION

Felicia N. Watson[1], Anya C. Kalata[1], Melanie J. Shears[1], Sumana Chakravarty[2], B. Kim Lee Sim[2], Stephen L. Hoffman[2], Moriya Tsuji[3], Sean C. Murphy[1]

[1]University of Washington, Seattle, WA, United States, [2]Sanaria, Inc, Rockville, MD, United States, [3]Columbia University Irving Medical Center, New York, NY, United States

(ACMCIP Abstract)

3:15 p.m. **1173**

UNDERSTANDING PATTERNS OF ANTIGEN DIVERSITY AND IMMUNE SELECTION PRESSURE AMONGST LEADING *PLASMODIUM VIVAX* VACCINE ANTIGEN CANDIDATES AND SEROSURVEILLANCE MARKERS

Alison Paolo Namuco Bareng[1], Myo Thet Naung[2], Somya Mehra[3], Jacob Munro[2], Rhea Longley[2], Melanie Bahlo[2], Ivo Mueller[4], Alyssa E. Barry[1]

[1]Institute for Mental and Physical Health and Clinical Translation (IMPACT), School of Medicine, Deakin University, Geelong, Victoria, Australia, [2]Division of Population Health and Immunity, Walter and Eliza Hall Institute of Medical Research, Parkville, Victoria, Australia, [3]Life Sciences Discipline, Burnet Institute,, Melbourne, Victoria, Australia, [4]Division of Population Health and Immunity, Parkville, Victoria, Australia

Symposium 66

ASTMH Committee on Global Health (ACGH) Symposium II: Health System Resiliency to Combat System Stressors: Lessons from Pandemics and Climate Change

Convention Center - Room 6C (6th Floor)

Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

The ongoing COVID-19 pandemic has exposed a number of deficiencies in our health system that will only become more problematic as the effects of climate change become more common in the future. Both pandemics and climate changes are system stressors that highlight the need to have health systems that are resilient and adaptable to the impacts of these system stresses. Much work to date has been done on the potential impacts of system stressors like climate change on specific diseases such as malaria, dengue, and even non-communicable diseases. Standardized procedures also exist to conduct vulnerability assessments and promote disease-specific resiliency and adaptation measures to mitigate the expected impacts of climate change. Many of the effects of climate change will however be unpredictable in the scope, magnitude, and location of their results and, as evidenced by the COVID-19 pandemic unanticipated system stresses and their impacts, being resilient to and mitigating the impacts of these events demands specific characteristics of the health system. This symposium will discuss the aspects of and key steps needed to create a resilient health system in the context of climate change and other system stressors such as the COVID-19 pandemic. Specific topics will include establishing a healthcare system that can maintain the ability to provide necessary care during system stresses (for example use of solar power in the event of electrical grid disruptions, mobile health care units and community health workers to deploy in the event of severe destruction of existing clinic and hospital infrastructure), training of healthcare workers to be able to detect and treat emerging or unknown diseases, and the creation of surveillance systems that are resilient enough to continue reporting diseases during system stresses and flexible enough to detect unknown or emerging disease outbreaks.

CHAIR

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

1:45 p.m.
INTRODUCTION

1:50 p.m.
USING STRESS TESTING TO HELP MINISTRIES PREPARE FOR COMPOUNDING AND CASCADING EVENTS, AND EXTREME EVENTS
Kristie Ebi
University of Washington Center for Health and the Global Environment, Seattle, WA, United States

2:10 p.m.
OUTBREAK RESPONSE AS AN OPPORTUNITY FOR HEALTH SYSTEMS STRENGTHENING
Daniel Bausch
FIND, Geneva, Switzerland

2:30 p.m.
CREATION AND OPERATIONALIZATION OF A CLIMATE AND HEALTH OBSERVATORY IN MOZAMBIQUE
Eduardo Gudo
National Institutes of Health, Maputo, Mozambique

2:50 p.m.
TOWARD THE CREATION OF RESILIENT AND FLEXIBLE ROUTINE HEALTH INFORMATION SYSTEMS
James Colborn
Clinton Health Access Initiative, Evergreen, CO, United States

Symposium 67

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium I: Annual Business Meeting

Convention Center - Room 6E (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

The American Committee on Arthropod-Borne and Zoonotic Viruses 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
Rebecca C. Christofferson
Louisiana State University, Baton Rouge, LA, United States

Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
ACAV AWARDS AND BUSINESS MEETING
Rebecca C. Christofferson
Louisiana State University, Baton Rouge, LA, United States

2:45 p.m.
OUTBREAK REPORTS: SARS-COV-2
Chantal Vogels
Yale School of Public Health, New Haven, CT, United States

3 p.m.
ALPHAVIRUS ENCEPHALITIS OUTBREAKS IN PANAMA
Jean Paul Carrera
Gorgas Memorial Institute, Panama, Panama

3:15 p.m.
AUDIENCE AND PANEL DISCUSSION: CHALLENGES AND LESSONS LEARNED FOR RESEARCH AND OPERATIONAL SUPPORT
Saravanan Thangamani
SUNY Upstate Medical University, Syracuse, NY, United States

Scientific Session 68

Mosquitoes: Insecticide Resistance and Control

Convention Center - Room 602/603/604 (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

CHAIR
Magellan Tchouakui
LSTM_CRID, Yaounde, Cameroon

Molly Duman Scheel
Indiana University School of Medicine, South Bend, IN, United States

1:45 p.m. **1174**

A NOVEL VERSATILE BIO-PESTICIDE FOR INSECT-BORN DISEASE CONTROL
George Dimopoulos[1], Chinmay Tikhe[1], Yuemei Dong[1], Eric Caragata[1], Cecilia Springer Engdahl[1], Hannah McLeod[1], Sarah Short[1], Sayali Mulay[1], Mihra Tavadia[1], Amanda Maldonado[1], Jose Luis Ramirez[2], Sarah van Tol[1], Vera Volfova[3], Petr Volf[4], Sare Issiaka[5], Etienne Bilgo[5], Abdoulaye Diabaté[6], Luisa Otero[7], Nahid Borhani Dizaji[1], Jenny Carlson[1], Raúl Saraiva[1], Jingru Fang[1]
[1]Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, United States, [2]USDA, Peoria, IL, United States, [3]Charles University, Department of Parasitology, Fac. Sci, Prague, Czech Republic, [4]Charles University, Department of Parasitology, Fac. Sci., Prague, Czech Republic, [5]Institut de Recherche en Science de la Santé (IRSS), Centre Muraz, Bobo Dioulasso, Burkina Faso, [6]Institut de Recherche en Science de la Santé (IRSS), Centre Muraz, Bobo-Dioulasso, Burkina Faso, [7]Denters for Disease Control (CDC), San Juan, PR, United States

2 p.m. **1175**

YEAST RNAI ATTRACTIVE TARGETED SUGAR BAITS (ATSBS) FOR ECO-FRIENDLY MOSQUITO CONTROL
Molly Duman Scheel[1], Teresia Njoroge[1], David W. Severson[2], Keshava Mysore[1]
[1]Indiana University School of Medicine, South Bend, IN, United States, [2]University of Notre Dame, Notre Dame, IN, United States

2:15 p.m. **1176**

COMMUNITY-LED DEPLOYMENT OF SPATIAL REPELLENTS OFFERS PROTECTION AGAINST *AEDES AEGYPTI* IN MEXICO

Gregor Devine[1], Guillermo Guillermo-May[2], Oscar Kirstein[3], Aylin Chi-Ku[2], Norma Pavia-Ruz[2], Josue Villegas[2], Azael Che Mendoza[2], Melissa Graham[1], Nisa Suraj Nath[1], Gonzalo Vazquez Prokopec[3], Pablo Manrique Saide[2]
[1]QIMR Berghofer Medical Research Institute, Brisbane, Australia, [2]Universidad Autonoma de Yucatan, Merida, Mexico, [3]Emory University, Atlanta, GA, United States

2:30 p.m. **1177**

EFFECTIVENESS OF RELEASING MALE MOSQUITOES WITH WOLBACHIA AS A POPULATION SUPPRESSION METHOD FOR *AEDES AEGYPTI* MOSQUITOES IN PONCE, PUERTO RICO

Liliana Sanchez-Gonzalez[1], Jacob E. Crawford[2], Laura E. Adams[1], Grayson Brown[3], Kyle Ryff[1], Mark Delorey[1], Jose Ruiz-Valcarcel[1], Marianyoly Ortiz[3], Nicole Nazario[3], Nexilianne Borrero[3], Julieanne Miranda[3], Bradley White[2], Vanessa Rivera-Amill[4], Roberto Barrera[1], Gabriela Paz-Bailey[1]
[1]CDC, San Juan, Puerto Rico, [2]Verily Life Sciences, San Francisco, CA, United States, [3]PR Vector Control Unit, San Juan, Puerto Rico, [4]Ponce Health Sciences University, Ponce, Puerto Rico

2:45 p.m. **1178**

A CHLORFENAPYR-BASED NET INTERCEPTOR® G2 SHOWS HIGH EFFICACY AGAINST RESISTANT MALARIA VECTORS IN CAMEROON

Magellan Tchouakui[1], Ricardo F. Thiomela[1], Elysee Nchoutpouen[1], Benjamin Menze[1], Cyrille NDO[1], Dorothy Achu[2], Raymond Tabue[2], Flobert Njiokou[3], Hilary Ranson[4], Charles S. Wondji[4]
[1]Centre for Research in Infectious Diseases, Yaounde, Cameroon, [2]Ministry of Public Health, National Malaria Control Programme, Yaounde, Cameroon, [3]Department of Animal Biology and Physiology, Faculty of Science, University of Yaoundé 1, Yaounde, Cameroon, [4]Department of Vector Biology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

3 p.m. **1179**

MOLECULAR DRIVERS OF INSECTICIDE RESISTANCE IN THE SAHELO-SUDANIAN POPULATIONS OF A MAJOR MALARIA VECTOR

Sulaiman S. Ibrahim, Jack Hearn, Helen Irving, Charles S. Wondji, Gareth D Weedall, Sanjay C. Nagi
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

3:15 p.m. **1180**

RESTORING PYRETHROID SUSCEPTIBILITY IN *AEDES AEGYPTI*: A LONGITUDINAL STUDY IN TAPACHULA, MEXICO

Karla Saavedra-Rodriguez[1], Francisco Solis-Santoyo[2], Alma Lopez-Solis[2], Saul Lozano[3], Farah Vera-Maloof[2], Rushika Perera[1], Americo Rodriguez[2], William Black IV[1], Patricia Penilla[2]
[1]Colorado State University, Fort Collins, CO, United States, [2]Centro Regional de Investigacion en Salud Publica, Tapachula, Mexico, [3]Center for Disease Control and Prevention, Fort Collins, CO, United States

Scientific Session 69

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa: Molecular Biology and Immunology

Convention Center - Room 605/610 (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

CHAIR
Fabiano Oliveira
NIH/NIAID, Rockville, MD, United States

Lucas Carvalho
Instituto Gonçalo Moniz- Fiocruz, Salvador, Brazil

1:45 p.m. **1181**

MICRORNAS ALTER PARASITE GROWTH, INFLAMMATION AND CELL ADHESION IN LEISHMANIA INFECTION

Eduardo Milton Ramos Sanchez[1], Katerine Grece Madrid Grece Madrid Sotomayor[2], Marina de Assis Souza[2], Luiza Campos Reis[2], Sandra Marcia Muxel[3], Valéria Rêgo Alves Pereira[4], Maria Edileuza Felinto de Brito[4], Lucile Maria Floeter-Winter[3], Hiro Goto[5]
[1]1Instituto de Medicina Tropical, Faculdade de Medicina, Universidade de São Paulo (IMTSP/USP)/Departamento de Salud Publica, Facultad de Ciencias de La Salud, Universidad Nacional Toribio Rodriguez de Mendoza de Amazonas, Chachapoyas 01000, Peru/Graduate, São Paulo, Brazil, [2]São Paulo University, São Paulo, Brazil, [3]Instituto de Biociências, Universidade de São Paulo, São Paulo, Brazil, [4]Instituto Aggeu Magalhães, Fundação Oswaldo Cruz (IAM/FIOCRUZ), Recife, Brazil, [5]Instituto de Medicina Tropical, Faculdade de Medicina, Universidade de São Paulo (IMTSP/USP)/Departamento de Medicina Preventiva, Faculdade de Medicina, Universidade de São Paulo, São Paulo, Brazil

(ACMCIP Abstract)

2 p.m. **1182**

NEW INSIGHTS ON THE IMMUNOMODULATORY PROPERTIES OF THE LEISHMANIA INFANTUM EUKARYOTIC INITIATION FACTOR

Rafeh Oualha[1], Yosser Zina Abdelkrim[1], Mourad Barhoumi[1], Makram Essafi[2], Imen Bassoumi Jamoussi[1], Melika Ben Ahmed[2], Khadija Essafi-Benkhadir[1], Ikram Guizani[1]
[1]Laboratory of Molecular Epidemiology and Experimental Pathology, Institut Pasteur de Tunis, Tunis, Tunisia, [2]Laboratory of Transmission, Control and Immunobiology of Infections, Institut Pasteur de Tunis, Tunis, Tunisia

(ACMCIP Abstract)

2:15 p.m. **1183**

IMMUNE RESPONSE TO SAND FLY SALIVARY PROTEIN, LINB-13, IS ASSOCIATED WITH DISEASE SEVERITY AND TREATMENT OUTCOME IN TEGUMENTARY LEISHMANIASIS PATIENTS

Augusto M. Carvalho[1], Fabiano Oliveira[2], Jesus G. Valenzuela[2], Edgar M. Carvalho[3], Camila I. de Oliveira[3]
[1]Gonçalo Moniz Institute, Salvador, Brazil, [2]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, [3]Gonçalo Moniz Institute, Salvador, Brazil

2:30 p.m. **1184**

SUNDRY LITTLE PAWS: INVESTIGATING THE IMMUNOLOGY OF GIARDIA INTESTINALIS INFECTION IN INDIVIDUALS WITH AND WITHOUT TUBERCULOSIS

Tara Elaine Ness[1], Lennard Meiwes[2], Santiago Carrero Longlax[1], Alexander Kay[3], Rojelio Mejia[1], Christoph Lange[4], Anna Mandalakas[1], Andrew DiNardo[1]
[1]Baylor College of Medicine/Texas Childrens Hospital, Houston, TX, United States, [2]University of Lübeck, Lübeck, Germany, Lübeck, Germany, Germany, [3]Baylor Center of Excellence, Mbabane, Swaziland, [4]Research Center Borstel, Clinical Infectious Diseases, Borstel, Germany

(ACMCIP Abstract)

2:45 p.m. **1185**

TRANSCRIPTOME LANDSCAPE OF PLACENTAL TROPHOBLASTS REVEALS SIGNALING PATHWAYS ASSOCIATED WITH RESISTANCE TO TRYPANOSOMA CRUZI INFECTION

Erica Silberstein, Charles Chung, David Acosta, Alain Debrabant
Food and Drug Administration, Silver Spring, MD, United States

(ACMCIP Abstract)

3 p.m. **1186**

CHARACTERIZATION OF THE ENZYMATIC ACTIVITY OF AN UNUSUAL DED1/DDX3 LIKE PROTEIN FROM THE PROTOZOAN PARASITE LEISHMANIA INFANTUM

Yosser Zina Abdelkrim[1], Molka Mokdadi[1], Josette Banroques[2], Emmeline Huvelle[2], Imen Bassoumi-Jamoussi[1], Hilal Yeter-Alat[2], Mourad Barhoumi[1], Ikram Guizani[1], N. Kyle Tanner[2]
[1]Institut Pasteur de Tunis, Tunis, Tunisia, [2]Institut de Biologie Physico-Chimique, Paris, France

(ACMCIP Abstract)

3:15 p.m. **1187**

REGULATION OF INFLAMMATORY RESPONSE IN CUTANEOUS LEISHMANIASIS PATIENTS THROUGH PPAR-GAMMA SIGNALING

Mauricio Nascimento, Jamile Lago, Edgar M. Carvalho, **Lucas P. Carvalho**
Instituto Gonçalo Moniz- Fiocruz, Salvador, Brazil

(ACMCIP Abstract)

Symposium 70

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium I: Insights into the Pathogenesis of Parasitic Infections Gained from Multi-omics

Convention Center - Room 606/607 (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

Supported with funding from the Burroughs Wellcome Fund

Studying pathogenesis of disease has greatly advanced over the last decade due to advances in multiple 'omic technologies. Beyond just studying the capacity of organisms for disease using genomics, multi-omics seeks to incorporate multiple big datasets providing information on dynamically changing processes (namely, transcriptomics, proteomics, metabolomics, and microbiome) into a system-wide analysis of disease. Understanding the complexity of the disease process for parasitic infections requires an in-depth analysis of the host's state across multiple levels (e.g., transcript, protein, metabolite, microbiota) and anatomical locations (e.g., bloodstream, deep tissue, lumen of the gut) during disease. This symposium will showcase recent studies in which multiple 'omic technologies have been applied toward the study of pathogenesis of parasitic diseases. We will explore studies of diverse parasitic diseases (e.g., nematodes, schistosomes, kinetoplastids, apicomplexans) where multi-'omic technologies have been used to interrogate the disease process. Specifically, we will focus on the ways in which crosstalk between parasite and host, host and parasite, is mediated by plasma circulating metabolites and gut microbes, and how these different players influence pathogenesis. Specific areas that will be covered include: validating biomarkers for schistosomiasis, mining of helminth secretomes toward the development of new anti-inflammatories, multi-omics analyses of parasitic nematode disease, and microbiome and metabolomic profiling of Chagas disease and malaria. These studies range from investigating these phenomena in the bloodstream, deep tissue to the gut lumen, and characterize a range of disease severity – from acute and severe to mild and chronic disease.

CHAIR

Regina Joice Cordy
Wake Forest University, Winston-Salem, NC, United States

Mahalia S. Desruisseaux
Yale University School of Medicine, New Haven, CT, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
VALIDATION AND IDENTIFICATION OF PROTEIN BIOMARKERS FOR SCHISTOSOMIASIS AND ITS PATHOGENESIS

Chiaka Anumudu
University of Ibadan, Ibadan, Nigeria

2:15 p.m.
MINING HELMINTH SECRETOMES FOR NEXT-GENERATION ANTI-INFLAMMATORIES

Alex Loukas
James Cook University, Cairns, QLD, Australia

2:35 p.m.
INTERROGATING MULTI-OMICS DATA TO COMPREHEND COMPLEXITY OF PARASITIC NEMATODES

Makedonka Mitreva
Washington University School of Medicine, St. Louis, MO, United States

2:55 p.m.
CHEMICAL CARTOGRAPHY-DERIVED INSIGHTS INTO THE ROLE OF MICROBIOME AND METABOLOME ALTERATIONS IN CHAGAS DISEASE PATHOGENESIS

Laura-Isobel McCall
University of Oklahoma, Norman, OK, United States

3:15 p.m.
PLASMA METABOLOME AND GUT MICROBIOME FLUCTUATIONS DURING ACUTE AND CHRONIC MALARIA INFECTION

Regina Joice Cordy
Wake Forest University, Winston-Salem, NC, United States

Symposium 71

Clinical Group (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH) Symposium I: Marcolongo Lecture - Practical Aspects of Travelers' Diarrhea for the Clinician

Convention Center - Room 608/609 (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

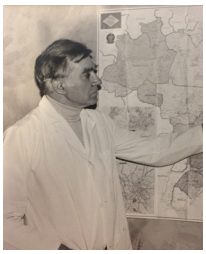
Supported with funding from the International Association for Medical Assistance to Travellers (IAMAT)

This session does not carry CME credit.

This session features the Vincenzo Marcolongo Lecture "Practical Aspects of Travelers' Diarrhea for the Clinician," followed by a talk on shigella vaccines and the annual Clinical Group business meeting. The highlight of this session is the Marcolongo Lecture, which honors Dr. Vincenzo Marcolongo (1922–1988), a graduate of the medical school at the University of Rome and founder of IAMAT - the International Association for Medical Assistance to Travellers in 1960. Dr. Marcolongo's lifelong work was devoted to the medical needs of travelers. This lecture is supported by the generosity of IAMAT and the Marcolongo family. 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 Clinical Group members have expressed interest in clinically relevant, practical lectures related to tropical disease. Travelers' diarrhea provides a good intersection between this practical need and the focus of Dr. Marcolongo's and IAMAT's work. Diarrheal illnesses are the most common travel-related infection, and they require a collaboration between the patient and the healthcare provider to minimize their impact. Although it is often only considered a nuisance, new data has demonstrated that some individuals, especially if they are not managed correctly, can endure chronic gastrointestinal sequelae. In addition, with the provision of new prophylactic measures, such as rifaximin, new data has demonstrated some more simple, and practical measure to both prevent and treat travel-related diarrhea. This lecture is intended to provide a practical overview of the prevention and treatment of travel-related diarrhea, in addition to providing an update on one specific effort to develop a travel-related vaccine against Shigella infection.

CHAIR

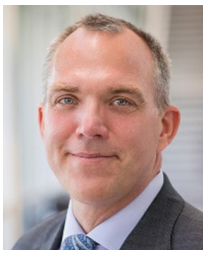
Mark Kortepeter
Uniformed Services University, Bethesda, MD, United States



The Marcolongo Lecture honors Vincenzo Marcolongo (1922–1988), founder of IAMAT - International Association for Medical Assistance to Travellers. A graduate of the medical school at the University of Rome, Dr. Marcolongo did his postgraduate training at McGill University in Montreal and returned to Italy to obtain his doctorate in tropical medicine. Dr. Marcolongo made the medical needs of travelers his life's work. Of particular interest to him was malaria and preventing the unnecessary morbidity and mortality it causes among travelers. In an era of increasing international travel, he realized that there was a need for collaboration among medical practitioners around the world to help travelers. In 1960 he founded IAMAT, a non-profit organization that awards scholarships to doctors and nurses from countries where travel medicine is an emerging practice. Through IAMAT, Dr. Marcolongo worked tirelessly to inform travelers of health risks and raise awareness of travelers' health among travel industry professionals and medical practitioners worldwide. His foresight, compassion and generosity continue to serve as inspiration for IAMAT's work.

1:45 p.m.
INTRODUCTION

1:50 p.m.
VINCENZO MARCOLONGO LECTURE: PRACTICAL ASPECTS OF TRAVELERS' DIARRHEA FOR THE CLINICIAN



Mark S. Riddle, MD, DrPH, FISTM
Associate Chief of Staff for Research, VA Sierra Nevada Health Care System, Reno, NV
Associate Dean of Clinical Research and Professor of Internal Medicine
University of Nevada Reno, School of Medicine
Reno, Nevada, United States

A Navy Veteran and recently retired Captain of the Medical Corps and boarded in General Public Health and Preventive Medicine, Dr. Riddle has over 20 years in the field of applied clinical research and epidemiology ranging from pre-clinical vaccine development and clinical vaccine and drug development, to vaccine and drug health economics and research related to the chronic health consequences of acute infection, as well as prognostic biomarker discovery in early immune-mediated diseases like inflammatory bowel disease and rheumatoid arthritis. Prior to retiring and moving to northern Nevada, he served as Professor and Chair of the Department of Preventive Medicine and Biostatistics at the F. Edward Hébert School of Medicine, Uniformed Services University in Bethesda, Maryland, and prior to that served the U.S. Army and Navy in various director roles, including leading the U.S. Military Diarrheal Diseases Vaccine Research Program. In his current dual appointment with the Reno VA Medical Center and University of Nevada, Reno School of Medicine, Dr. Riddle directs an integrated clinical research enterprise that includes faculty and staff, UNR Med students and residents, and leads strategic growth efforts to expand industry-sponsored, investigator-initiated and VA Merit/NIH-funded research. Ultimately, both of these roles are focused on creating the workforce needed to grow clinical research in the underserved community of northern Nevada to improve patient opportunities and health outcomes. Nevada is among the lowest ranked states in the nation for health-care workforce and clinical research.

2:35 p.m.
THE JOURNEY TOWARDS A SHIGELLA VACCINE FOR TRAVELERS AND THE WORLD
Kawsar Talaat
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

3 p.m.
CLINICAL GROUP ANNUAL BUSINESS MEETING
Mark Kortepeter
Uniformed Services University, Bethesda, MD, United States

Symposium 72

An Innovative Approach to Improve Preventive Chemotherapy for Neglected Tropical Diseases: Adaptation of a Quality Improvement Model

Convention Center - Room 611/612 (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

Neglected tropical diseases (NTD) programs have made great progress toward the elimination/control of NTDs amenable to preventive chemotherapy in the African region. However, some districts after several year of mass drug administration (MDA) have failed impact survey sometimes despite reporting good mass treatment coverage at the district level. Investigations have revealed inadequacies and challenges in MDA implementation at the sub-district level, including failure to track population movement (mining groups, nomadic communities, etc.), unmotivated distributors, and poor district-level planning. When the level of variation is high between the reported coverages of the sub-districts even if the district coverage average has reached the threshold recommended, there is a problem with the whole district reaching the corresponding milestone and subsequently passing the impact survey. The resulting low coverage rates in some sub-districts and survey failures have created an urgent need to take corrective action to enhance MDA and survey implementation quality, compliance, and coverage. Several West African national NTD programs have adopted lately an evidence-based quality improvement (QI) model to strengthen program interventions and address issues that hinder their ability to achieve the World Health Organization NTD road map goals. The QI framework developed for health services delivery including community-based health services aims to enhance health system performance, service delivery and quality. However, this is the first time the model has been applied to NTD Programs and thus needed to be adapted. NTD programs are viewed as a complex adaptive system made of many components that interact to deliver a defined performance, like any health system. Improving an NTD program's performance, whether expressed/measured in terms of outcomes or impact, requires making changes within each component identified as requiring improvement and in the relationships between these components. Therefore, the cycle of MDA campaigns is an improvement cycle where each campaign is an opportunity to test/try an improvement idea and make decisions for the next MDA cycle. The NTD QI process consists of the following activities: Review of MDA coverage, determination of the root causes of poor performance, brainstorming ideas for improvement, implementation of the recommended interventions, and measurement of changes in program performance. The symposium will present the QI model for improving implementation and discuss ideas, strategies, considerations for applying the QI framework, and plans for initiating QI activities. Experiences from Benin, Ghana, and Sierra Leone in the design and implementation of the QI model for NTDs will be presented.

CHAIR
Kisito Ogoussan
FHI360, Washington, DC, United States
Benoit Dembele
Helen Keller International, Dakar, Senegal

1:45 p.m.
INTRODUCTION

1:55 p.m.
THE QUALITY IMPROVEMENT MODEL AND CONSIDERATIONS TO ADAPTING THE QI MODEL FOR NTD PROGRAM
Kisito Ogoussan
FHI360, Washington, DC, United States

2:10 p.m.
USE OF QUALITY IMPROVEMENT APPROACH TO IMPROVE MDA COVERAGE IN BENIN
Diane Ehoumi Dah-Bolinon
FHI360 Benin, Cotonou, Benin

2:25 p.m.
QUALITY IMPROVEMENT IMPLEMENTATION IN GHANA: RESULTS AND LESSONS LEARNED
Kofi Asemanyi-Mensah
Ghana Health Service-Disease Control Unit/NTD Programme, Accra, Ghana

2:40 p.m.
QUALITY IMPROVEMENT APPLICATION TO STRENGTHEN SOCIAL MOBILIZATION IN SIERRA LEONE
Victoria E. Kezia Turay
Helen Keller Intl, Sierra Leone, Freetown, Sierra Leone

Symposium 73

Challenges and Opportunities in the Management of Diarrhea among Children with Wasting: A Critical Barrier to Ending Diarrhea-Associated Mortality

Convention Center - Room 613/614 (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

More than 500,000 children die from diarrhea each year, over one-third of which occur in children with moderate or severe wasting. Children with wasting are 10 times more likely to die during a diarrheal episode, and 1.5 times more likely to develop severe growth faltering after diarrhea, than children with better nutritional status. Fluid rehydration among wasted children is a delicate balance between addressing life-threatening dehydration while

avoiding fluid overload and electrolyte imbalance. This challenge is compounded by frequent misclassification of dehydration among wasted children, who are thought to display signs of dehydration (reduce skin turgor, sunken eyes, etc) even when appropriately hydrated. However, mortality among these children is not limited to the acute period; more than half of the deaths associated with diarrhea occur greater than 7-days after diarrhea presentation. The unique immunological and enteric vulnerability of wasted children may both explain this late mortality and present important opportunities to develop life-saving interventions. This symposium brings to together emerging evidence to evaluate current management strategies, and present possible future interventions to reduce mortality among children with comorbid wasting and diarrhea. During the symposium, Dr. Benson Singa will discuss the findings of over a decade of research into diarrheal disease among wasted children in Kenya. These studies will ground the audience in our current understanding of both acute and long-term outcomes of diarrhea among children with wasting. Mr. Adino Tsegaye will present the results of two recently complete systematic reviews that were commissioned by the World Health Organization to address the identification and management of dehydration among wasted children. These reviews challenge the underlying assumptions of the current WHO recommendations, and suggest that simplification of these recommendation may be safe and cost-effective. Next, Dr. Njunge, will present the results of two multi-omics studies linking changes in the enteric microbiome of wasted children, and their profile of systemic inflammation, to the late mortality and growth failure these children experience. Finally, Dr. Laniconi will present data from a multi-country study of undernourished children highlighting the role of infection-associated innate and adaptive immune dysregulation in driving poor long term outcomes. Collectively, these presentations will ground the audience in the evidence supporting the current recommendations for managing children with wasting and diarrhea, and give insights into the future of this field.

CHAIR

Kirkby Tickell
University of Washington, Seattle, WA, United States

Patricia B. Pavlinac
University of Washington, Seattle, WA, United States

1:45 p.m.
INTRODUCTION

1:55 p.m.
BURDEN, DISEASE SEVERITY, AND MORTALITY AMONG CHILDREN PRESENTING COMORBID WASTING AND DIARRHEA: LESSONS FROM A DECADE OF RESEARCH IN WESTERN KENYA

Benson Singa
Kenya Medical Research Institute, Nairobi, Kenya

2:15 p.m.
THE IDENTIFICATION AND MANAGEMENT OF DEHYDRATION AMONG WASTED CHILDREN: A SYSTEMATIC REVIEW

Adino Tsegaye
University of Gondar, Gondar, Ethiopia

2:35 p.m.
THE ROLE OF THE ENTERIC SYSTEM AND SYSTEMIC INFLAMMATION IN LONG TERM OUTCOMES OF WASTED CHILDREN

James M. Njunge
KEMRI-Wellcome Trust Programme, Kilifi, Kenya

2:55 p.m.
INNATE AND ADAPTIVE IMMUNITY AMONG WASTED CHILDREN: IMPLICATIONS AND OPPORTUNITIES FOR THE MANAGEMENT OF DIARRHEA

Christina Lancioni
Oregon Health Science University, Portland, OR, United States

Scientific Session 74

Arthropods: Other Arthropods

Convention Center - Room 615/616/617 (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

CHAIR

Chukwunonso Nzelu
University of Calgary, Calgary, AB, Canada

Gangi Rameshika Samarawickrama
QIMR Berghofer Medical Research Institute, Herston, Australia

1:45 p.m. **1188**

ABAMETAPIR - A PROMISING SINGLE DOSE SCABICIDE CANDIDATE WITH MULTIPLE TARGETS

Gangi Rameshika Samarawickrama[1], Deepani D. Fernando[1], Tao Wang[2], Pasi Korhonen[2], Robin B. Gasser[2], Vern M. Bowles[3], Katja Fischer[1]
[1]Infection and Inflammation Program, QIMR Berghofer Medical Research Institute, Herston, Brisbane, Australia, [2]Faculty of Veterinary and Agricultural Sciences, University of Melbourne, Parkville, Victoria, Australia, [3]Centre for Animal Biotechnology, University of Melbourne, Parkville, Victoria, Australia

2 p.m. **1189**

B-TRIKETONES, A NOVEL NEXT GENERATION SCABICIDE?

Nirupama A. Nammunige[1], Kylie Agnew-Francis[2], Sara Taylor[1], Hieng Lu[1], Deepani D. Fernando[1], Craig Williams[2], Katja Fischer[1]
[1]Cellular and Molecular Biology Department, Infectious Diseases Program, QIMR Berghofer Medical Research Institute, Herston, Australia, [2]School of Chemistry and Molecular Biosciences, University of Queensland, Herston, Australia

2:15 p.m. **1190**

ONGOING TRANSMISSION OF ONCHOCERCIASIS IN THE ENDEMIC CAMEROON-CHAD CROSS-BORDER AREA AFTER MORE THAN TWENTY YEARS OF MASS IVERMECTIN DISTRIBUTION

Franklin Ayisi[1], Jamie Tallant[2], Dziedzom K. de Souza[3], Benjamin D. Biholong[4], Eric B. Fokam[5], Daniel A. Boakye[6]
[1]African Regional Postgraduate Programme in Insect Science (ARPPIS), University of Ghana, Accra Ghana/ National Onchocerciasis Control Programme, Ministry of Public Health, Yaounde, Cameroon, [2]The End Fund, New York, NY, United States, [3]Department of Parasitology, Noguchi Memorial Institute for Medical Research (NMIMR), College of Health Sciences, University of Ghana, Legon, Accra, Ghana, [4]National Onchocerciasis Control Programme, Ministry of Public Health, Yaounde, Cameroon, [5]Department of Animal Biology and Conservation, University of Buea, Buea, Cameroon, [6]The End Fund, New York, USA/ Department of Parasitology, Noguchi Memorial Institute for Medical Research (NMIMR), College of Health Sciences, University of Ghana, Legon, Accra, Ghana

2:30 p.m. **1191**

EVALUATION OF THE ESPERANZA WINDOW TRAP FOR CATCHING ONCHOCERCIASIS VECTORS IN DIFFERENT ECOLOGICAL AREAS OF ETHIOPIA

Abebual Yilak[1], Aderajew Mohammed[1], Tekola Endeshaw[1], Yewondwossen Bitew[1], Tewodros Seid[1], Yihenew Wubet[1], Jemal Moges[1], Addisu Sahile[1], Adane Yayeh[1], Fikresilasie Samuel[1], Sindew Mekasha[2], Kadu Meribo[3], Zerihun Tadesse[1], Emily Griswold[4], Moses Katabarwa[4], Frank O. Richards[4], Thomas Unnasch[5]
[1]The Carter Center, Addis Ababa, Ethiopia, [2]Ethiopia Public Health Institute, Addis Ababa, Ethiopia, [3]Federal Ministry of Health, Addis Ababa, Ethiopia, [4]The Carter Center, Atlanta, GA, United States, [5]University of South Florida, Tampa, FL, United States

2:45 p.m. **1192**

INFLUENCE OF DERMAL IMMUNITY FOLLOWING EXPOSURE TO SAND FLY BITES ON LEISHMANIA INFECTION

Chukwunonso O. Nzelu, Matheus B. H. Carneiro, Nathan C. Peters
Snyder Institute for Chronic Diseases, Departments of Microbiology, Immunology and Infectious Diseases, Cumming School of Medicine and Comparative Biology and Experimental Medicine, Faculty of Veterinary Medicine, University of Calgary, Calgary, AB, Canada

3 p.m. **1193**

NATURAL SUGAR FEEDING RATES OF AN0PHELES MOSQUITOES COLLECTED BY DIFFERENT METHODS IN WESTERN KENYA

Seline Omondi[1], Jackline Kosgei[1], Silas Agumba[1], Brian Polo[1], Nick Yalla[1], Vincent Moshi[1], Bernard Abong'o[1], Maurice Ombok[1], Daniel McDermott[2], Julian Entwistle[3], Aaron Samuels[4], Feiko Ter Kuile[2], John E. Gimnig[4], Eric Ochomo[1]
[1]Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]Innovative Vector Control Consortium, Liverpool, United Kingdom, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States

3:15 p.m. **1194**

FIELD EVALUATIONS OF NOVEL SPATIAL REPELLENT TOOLS FOR VECTOR-BORNE DISEASES IN CONFLICT AFFECTED COMMUNITIES LIVING IN TEMPORARY SHELTERS - STUDIES ON MOSQUITOES AND SANDFLIES

Laura Anne Paris, Ramona Scherrer, Richard Allan
The Mentor Initiative, London, United Kingdom

Symposium 75

Breaking the Silos between Tropical Medicine and Sexual and Reproductive Health: A Path towards Equity, Integration and Sustainability

Convention Center - Room 618/619/620 (6th Floor)
Tuesday, November 1, 1:45 p.m. - 3:30 p.m. U.S. Pacific Time Zone

Tropical diseases that have a pronounced and unique impact on women's sexual and reproductive health face a similar challenge. Disease-oriented programs are frequently managed vertically within the health system and have few if any intersections with sexual and reproductive health programs. The consequences of this lack of integration are especially harmful to women and girls, as gender norms, roles, and anatomy increase vulnerability to certain neglected tropical diseases (NTDs), affecting them disproportionally. In addition, this population frequently has limited access to health care and there is little to no cross-learning between programs on how to overcome these challenges and reach the most vulnerable women. This session invites you to learn from transformative cross-cutting approaches and interventions that are currently working to bridge Tropical Medicine and Sexual and Reproductive Health (SRH). By including NTD interventions within sexual and reproductive health, antenatal care, maternal and child health, and family and community health policies, programs, and services, we can strengthen public health responses and universal access to healthcare. The aim of this session is to discuss and examine interventions, programs, and initiatives that have broken the siloes between Tropical Medicine and Sexual and Reproductive Health. To achieve that, the session will focus on female genital schistosomiasis and congenital Chagas. This will allow speakers to share challenges, lessons learned and derive new approaches to improve comprehensive health services to women that include tropical diseases. This will help participants problem-solve across sectors to better serve women and girls and their families living at risk of tropical diseases.

CHAIR

Julie Jacobson
Bridges to Development, Vashon, WA, United States

Felicia Wong
Frontline AIDS, Hove, United Kingdom

1:45 p.m.
INTRODUCTION

1:55 p.m.
BREAKING THE SILOS BETWEEN TROPICAL MEDICINE AND SEXUAL AND REPRODUCTIVE HEALTH: AN INTRODUCTION

Julie Jacobson
Bridges to Development, Vashon, WA, United States

2:05 p.m.
INTEGRATING CONGENITAL CHAGAS INTO A SEXUAL AND REPRODUCTIVE HEALTH INITIATIVE IN THE AMERICAS

Leandro Sereno
Pan American Health Organization, Washington, DC, United States

2:20 p.m.
CONGÉNITAL CHAGAS IN THE CHACO REGIÓN. IMPLEMENTATION OF A SUCCESSFUL PROGRAM

Favio Crudo
Fundacion Mundo Sano, Buenos Aires, Argentina

2:35 p.m.
FEMALE GENITAL SCHISTOSOMIASIS INTEGRATION IN LIBERIA

Anthony K. Bettee
Liberia Ministry of Health, Monrovia, Liberia

2:50 p.m.
BUILDING AWARENESS TO CATALYZE LOCAL ACTION ON FEMALE GENITAL SCHISTOSOMIASIS INTEGRATION

Isis Umbelino
Bridges to Development, Vashon, WA, United States

Career Chats (In-Person Session)

Convention Center - Room 3B (3rd Floor)
Tuesday, November 1, 3 p.m. - 4 p.m. U.S. Pacific Time Zone

Attend the Career Chats sessions to meet professionals in the tropical medicine field who will share their career stories and strategies to help you along your professional path, as well as discuss topical subjects in the field of global health.

CHAIR
Hanna Ehrlich
University of California Davis, Davis, CA, United States

Bronwyn MacInnis
Broad Institute, Cambridge, MA, United States

Oyebola Oyesola
National Institutes of Health, Bethesda, MD, United States

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Tuesday, November 1, 3:15 p.m. - 4:15 p.m. U.S. Pacific Time Zone

Coffee Break

Convention Center - Hall 4BC (4th Floor)
Tuesday, November 1, 3:30 p.m. - 4 p.m. U.S. Pacific Time Zone

Poster Session B Dismantle

Convention Center - Room 4A (4th Floor)
Tuesday, November 1, 4 p.m. - 6:15 p.m. U.S. Pacific Time Zone

Scientific Session 76

LIVE STREAMING Malaria: Approaches for Understanding Malaria Biology and Pathology

Convention Center - Room 6AB (6th Floor)
Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

CHAIR
Carola Salas
U.S. Naval Medical Research Unit No. 6 (NAMRU-6), Lima, Peru

Samuel Anyona
Maseno University, Maseno, Kenya

4 p.m. 1195

RNA SEQ REVEALS DIFFERENTIAL TRANSCRIPTOME PROFILES IN KENYAN CHILDREN WITH SEVERE MALARIA ANEMIA AND PREDICTS BIOLOGICAL PATHWAYS MEDIATING IMMUNITY

Samuel B. Anyona[1], Qiuying Cheng[2], Evans Raballah[3], Ivy Hurwitz[2], Elly Munde[4], Clinton Onyango[5], Philip D. Seidenberg[6], Kristan A. Schneider[7], Christophe G. Lambert[2], Benjamin H. McMahon[8], Collins Ouma[5], Douglas J. Perkins[2]
[1]Department of Medical Biochemistry, School of Medicine, Maseno University, Maseno, Kenya, [2]Center for Global Health, University of New Mexico, Albuquerque, NM, United States, [3]Department of Medical Laboratory Sciences, School of Public Health Biomedical Sciences and Technology, Masinde Muliro University of Science and Technology, Kakamega, Kenya, [4]Department of Clinical Medicine, School of Health Science, Kirinyaga University,, Kerugoya, Kenya, [5]Department of Biomedical Sciences and Technology, School of Public Health and Community Development, Maseno, Kenya, [6]Department of Emergency Medicine, University of New Mexico, Albuquerque, NM, United States, [7]Department Applied Computer and Bio-Sciences, University of Applied Sciences Mittweida, Mittweida, Germany, [8]Theoretical Biology and Biophysics Group, Theoretical Division, Los Alamos National Laboratory, Los Alamos, NM, United States

4:15 p.m. 1196

MALARIA PARASITE SERINE/ARGININE-RICH PROTEIN KINASE 1 REGULATES ASEXUAL BLOOD STAGE SCHIZOGONY AND IS ESSENTIAL FOR MALE GAMETE FORMATION

Sudhir Kumar[1], Vinay Baranwal[2], Amanda Sabine Leeb[1], Meseret Haile[1], Kenza M.Z. Oualim[1], Nina Hertoghs[1], Ashley M. Vaughan[1], Stefan Kappe[1]
[1]Seattle Children's Research Institute, Seattle, WA, United States, [2]Molecular Botany Lab, Swami Devanand Post Graduate College, Math-Lar, UP, Deoria, India

4:30 p.m. 1197

RNA SEQUENCING WITH DE NOVO ASSEMBLY INDICATES EXPRESSION OF DUAL-BINDING PFEMP1S IN MALIAN CHILDREN WITH SEVERE MALARIA

Emily M. Stucke[1], Drissa Coulibaly[2], Rafal Sobota[1], Jonathan Lawton[1], Savy M. Sebastian[1], Matthew Adams[1], Noah T. Ventimiglia[1], James B. Munro[1], Ankit Dwivedi[1], Antoine Dara[2], Abdoulaye K. Kone[1], Karim Traoré[2], Bouréima Guindo[2], Bourama M. Tangara[2], Amadou Niangaly[2], Modibo Daou[2], Issa Diarra[2], Youssouf Tolo[2], Mody Sissoko[2], Bryan Cummings[1], Albert E. Zhou[1], Matthew B. Laurens[1], Amed Ouattara[1], Bourema Kouriba[2], Ogobara K. Doumbo[2], Shannon Takala Harrison[1], Christopher V. Plowe[1], Joana C. Silva[1], Mahamadou A. Thera[2], Mark A. Travassos[1]
[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]University of Sciences, Techniques and Technologies, Bamako, Mali

4:45 p.m. 1198

CD47 REGULATES PARASITE BURDEN AND PROMOTES PATHOGENESIS IN MURINE MALARIA MODELS

Miranda Oakley[1], Pallavi Malla[1], Laughing Bear Torrez Dulgeroff[2], Hong Zheng[1], Victoria Majam[1], Joanna K. Chorazeczewski[1], Winter A. Okoth[1], Scott Meredith[1], David R. Rotstein[1], Irving L. Weissman[3], Sanjai Kumar[1]
[1]FDA, Silver Spring, MD, United States, [2]Stanford University, Stanford, CA, United States, [3]Institute for Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine, Stanford, CA, United States

5 p.m. 1199

EXPRESSION OF SYNDECAN-1, A RECEPTOR FOR *PLASMODIUM FALCIPARUM* INFECTED RED BLOOD CELLS, MAY BE DETERMINED BY SEX OF THE PLACENTAL SYNCYTIOTROPHOBLAST

Rebecca Reif, Lauren Higa, Catherine J. Mitran, Denise Hemmings, Stephanie K. Yanow
University of Alberta, Edmonton, AB, Canada

(ACMCIP Abstract)

5:15 p.m. 1200

EAST AFRICAN *PLASMODIUM VIVAX* TRANSCRIPTOMES REVEAL DIFFERENCES IN THE EXPRESSION PROFILES OF GENES RELATED TO ERYTHROCYTE INVASION FROM OTHER GEOGRAPHICAL ISOLATES

Daniel David Kepple[1], Colby Ford[1], Jonathan Williams[1], Beka Abagero[1], Shaiou Li[1], Delenasaw Yewhalaw[2], Eugenia Lo[1]
[1]University of North Carolina Charlotte, Charlotte, NC, United States, [2]Jimma University, Jimma, Ethiopia

5:30 p.m. 1201

HARBORING OF MULTIPLE *PLASMODIUM* SPECIES TRIGGERS SYMPTOMATIC MALARIA IN ENDEMIC POPULATION

Jackline A. Jumah[1], Hoseah Akala[1], Dennis Juma[1], Benjamin Opot[1], Gladys Chemwor[1], Mary Mutahi[2], Raphael Okoth[1], Edwin Wachenje[1], Redemptah Yeda[1], Charles Okudo[1], Agnes Cheruiyot[1], Edwin Kamau[3], Daniel Boudreax[4], Oliver Watson[5], Amanda Roth[3], Ben Andagalu[1]

[1]USAMRD-A-K/KEMRI, Kisumu, Kenya, [2]Welcome Trust Kilifi /KEMRI, Kilifi, Kenya, [3]Walter Reed Army research Institute, California, CA, United States, [4]Walter Reed Army research Institute, Washington, WA, United States, [5]Liver pool London School of Tropical Medicine and Hygiene, Liver pool, United Kingdom

Symposium 77

A Scientist's Cheat Sheet to Understanding Washington, DC

Convention Center - Room 6C (6th Floor)

Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

Every day, research, program, funding, and policy decisions are being made at the U.S. federal level. 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 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, how a bill really 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? What is the role of social media in advocacy and how can you use it to convey the value of your work?

CHAIR

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

4 p.m.
INTRODUCTION

4:05 p.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

4:20 p.m.
HOW DOES WASHINGTON REALLY WORK?

Jodie Curtis
Venable LLP, Washington, DC, United States

4:40 p.m.
A WINDOW INTO GLOBAL HEALTH POLICY FROM THE US SENATE

Ben Merkel (Invited)
Office of Senator Patty Murray, (D-WA), Washington, DC, United States

5 p.m.
USING SOCIAL MEDIA STRATEGICALLY AND EFFECTIVELY

Gideon Hertz
Burness, Bethesda, MD, United States

5:15 p.m.
TRANSLATING SCIENCE INTO KEY MESSAGES FOR POLICYMAKERS

Daniel G. Bausch
FIND, Geneva, Switzerland

Scientific Session 79

Integrated Control Measures for Neglected Tropical Diseases

Convention Center - Room 602/603/604 (6th Floor)

Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

CHAIR

Maja Carrion
Boston University, Boston, MA, United States

Fiona Fleming
Schistosomiasis Control Initiative, London, United Kingdom

4 p.m. 1202

PROMOTING SUSTAINABLE ACCESS TO QUALITY-ASSURED NTD PRODUCTS IN LOW- AND MIDDLE-INCOME COUNTRIES

Frederick Meadows, Perrer N. Tosso
USP/PQM+, Rockville, MD, United States

4:15 p.m. 1203

THE IMPACT OF ONE VS. TWO DOSES OF IVERMECTIN MASS DRUG ADMINISTRATION ON THE PREVALENCE AND INTENSITY OF SOIL-TRANSMITTED HELMINTH (STH) INFECTIONS

Brandon Le[1], Naomi Clarke[1], Sze Fui Hii[2], Aisling Byrne[1], Patsy Zendejas-Heredia[2], Susanna Lake[3], Oliver Sokana[4], Alam Khattak[1], Lucia Romani[1], Daniel Engelman[3], Titus Nasi[5], Dickson Boara[6], John Kaldor[1], Andrew Steer[3], Rebecca Traub[2], Susana Vaz Nery[1]

[1]Kirby Institute, University of New South Wales, Kensington, Australia, [2]University of Melbourne, Melbourne, Australia, [3]Murdoch Children's Research Institute, Melbourne, Australia, [4]Ministry of Health and Medical Services, Solomon Islands, Honiara, Solomon Islands, [5]National Referral Hospital, Solomon Islands, Honiara, Solomon Islands, [6]Gizo Hospital, Gizo, Solomon Islands

4:30 p.m. 1204

MDA COVERAGE SURVEY RESULTS FROM CARTER CENTER-ASSISTED AREAS OF ETHIOPIA

Aderajew Mohammed[1], Desalegn Jemberie[1], Tewodros Seid[1], Yewondwosen Bitew[1], Gedefaw Ayenew[1], Arega Ketema[1], Nigussie Haile[1], Yohannes Eshetu[1], Fanta Nigussi[1], Fetene Mihretu[1], Abey Mezgebu[1], Abdo Aliyi[1], Kadu Meribo[2], Mossie Tamiru[2], Fikre Seife[2], Zerihun Tadesse[1], Moses Katabarwa[3], Emily Griswold[3], Gregory S. Noland[3]

[1]The Carter Center, Addis Ababa, Ethiopia, [2]Federal Ministry of Health, Addis Ababa, Ethiopia, [3]The Carter Center, Atlanta, GA, United States

4:45 p.m. **1205**

SYSTEMATIC REVIEW AND META-ANALYSIS OF QUALITATIVE ASSESSMENTS OF PERSISTENT TRANSMISSION OF NTDS IN 5 COUNTRIES

Elizabeth Sutherland[1], **Erica Shoemaker**[1], Jeremiah Ngondi[1], Nseobong Akpan[2], George Kabona[3], Marilia Massangaie[4], Alfred Mubangizi[5], Fikre Seife[6], Molly Brady[1]
[1]RTI International, Research Triangle Park, NC, United States, [2]Federal Ministry of Health, Abuja, Nigeria, [3]Ministry of Health, Dodoma, United Republic of Tanzania, [4]MISAU, Maputo, Mozambique, [5]Ministry of Health, Kampala, Uganda, [6]Federal Ministry of Health, Addis Ababa, Ethiopia

5 p.m. **1206**

CHARACTERISTICS OF NON-TREATED POPULATIONS AMONG SELECT NEGLECTED TROPICAL DISEASE MASS DRUG ADMINISTRATION CAMPAIGNS IN WEST AFRICA

Maureen K. Headland, Diana Stukel, Kaustubh Wagh, Caleb Parker
FHI 360, Washington, DC, United States

5:15 p.m. **1207**

PROMISING PRACTICES IN COLLABORATIVE PLANNING FOR INTEGRATED HEALTH CAMPAIGNS: SYNTHESIS OF CASE STUDIES IN NEGLECTED TROPICAL DISEASES, MALARIA, VITAMIN A SUPPLEMENTATION, AND IMMUNIZATIONS

Eva Bazant[1], David Gittelman[2], Vivek Patel[1], Sumitra Shrestha[3], Esmael Habtamu Ali[4], Preetha G.S.[5]
[1]The Task Force for Global Health, Decatur, GA, United States, [2]DMG Global Health, Albany, NY, United States, [3]Centre for Evidence-Based Public Health (CEPH), Kathmandu, Nepal, [4]Eyu-Ethiopia: Eye Health Research, Training & Service Centre, Bahirdar, Ethiopia, [5]International Institute of Health Management Research (IIHMR), New Delhi, India

5:30 p.m. **1208**

KEY INFLUENCERS OF MASS DRUG ADMINISTRATION IMPLEMENTATION AND SCALE-UP: A NETWORK ANALYSIS OF SOIL-TRANSMITTED HELMINTH PROGRAMS IN BENIN, INDIA, AND MALAWI

Marie-Claire Gwayi-Chore[1], Kumudha Aruldas[2], Euripide Avokpaho[3], Chawanangwa Mahebere Chirambo[4], Malvika Saxena[2], Angelin Titus[2], Parfait Houngbégnon[3], Comlanvi Innocent Togbevi[3], Félicien Chabi[3], Providence Nindi[4], James Simwanza[1], Jabaselvi Johnson[2], Khumbo Kalua[4], Moudachirou Ibikounlé[3], Sitara S.R. Ajjampur[2], Bryan J. Weiner[1], Judd L. Walson[1], Arianna Rubin Means[1]
[1]University of Washington School of Public Health, Seattle, WA, United States, [2]The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India, [3]Institut de Recherche Clinique du Bénin, Abomey-Calavi, Benin, [4]Blantyre Institute for Community Outreach (BICO), Lions Sight First Eye Hospital, Blantyre, Malawi

Symposium 80

Paradigm for Elimination of NTDs in Africa: The African Leishmaniases Consortium Approach

Convention Center - Room 605/610 (6th Floor)
Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

Leishmaniases Control programs are based on diagnostics, treatment, control of vectors and reservoirs. However, contextual and complex knowledge on the epidemiology and harmonization of the available tools are yet needed to achieve set goals for visceral leishmaniasis elimination and cutaneous leishmaniases control in Africa. Despite significant scientific advances including from Africa, there is limited impact on public health and implications for the communities. Data is also often missing because of the lack of tools that are effectively used to support a range of the needed activities to achieve elimination and control. Contextually, availability of knowledge, tools and R&D products is not sufficient. The tools need to be transferred, used to support decision-making and selection of effective policy options to maximize impact on health and development, and effectively implemented. A range of public health and developmental activities are needed to address science questions on elimination of NTDs including: Will the use of genomics and science advances to develop novel control and surveillance tools successfully translate into effective strategies for elimination? What additional knowledge is needed for evidence and R&D use by decision and policy makers? What are the social and economic barriers to successful translation of innovations and achievements in science for elimination of leishmaniases within communities?How to engage stakeholders on efforts to translate research and innovations to evidence and strategies for policy? Will this enhance elimination in communities? Rich leadership, strong bases and institutions exist in Africa to effectively tackle these issues. Five speakers will address these issues representing the Society's membership and African leadership. The framework for discussions by the African Leishmaniases Consortium (ALC), as a group of African Leaders having strong complementary expertise and a common vision, is in tandem with the 2021 WHO NTD road map that has identified the top global priorities for Visceral (VL) and Cutaneous (CL) Leishmaniases with goals of VL elimination and CL Control. The discussions will provide opportunities for partners to join with ALC in meeting the gaps and challenges that remain due to Africa context- including diversity of the diseases, levels of neglect, country and global underreporting, high morbidity and mortality, significant psychosocial stigma, weak health systems, lack of resources and expertise. It will also highlight achievements that could be used to build a new paradigm towards better control and elimination of leishmaniases.

CHAIR

Ikram Guizani
Institut Pasteur de Tunis, Tunis, Tunisia

Ayoade MJ Oduola
University of Ibadan Research Foundation, Ajibode, Ibadan., Nigeria

4 p.m.
INTRODUCTION

4:10 p.m.
PRESENTING THE RATIONALE FOR ALC

Ikram Guizani
Institut Pasteur de Tunis, Tunis, Tunisia

4:20 p.m.
REGIONAL PERSPECTIVES ON PUBLIC HEALTH MANAGEMENT OF LEISHMANIASES (ETHIOPIA)

Endalamaw Gadisa
Armauer Hansen Research Institute, Addis Ababa, Ethiopia

4:30 p.m.
REGIONAL PERSPECTIVES ON PUBLIC HEALTH MANAGEMENT OF LEISHMANIASES (SUDAN)
Maowia M. Mukhtar
Institute of Endemic Diseases, Khartoum, Sudan

4:40 p.m.
REGIONAL PERSPECTIVES ON VECTOR TRANSMISSION
Seydou Doumbia
Faculty of Medicine - University USTTB, Bamako, Mali

4:50 p.m.
THE SOCIO-ECONOMICS CHALLENGES ASSOCIATED WITH VL ELIMINATION AND CL CONTROL
Elisa Sicuri
Barcelona Institute for Global Health, Barcelona, Spain

5 p.m.
PUBLIC POLICY IMPERATIVES FOR ELIMINATION OF NTDS IN AFRICA
Wafaie W. Fawzi
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Symposium 81

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium II: Trager and Trainee Awardees Symposium

Convention Center - Room 606/607 (6th Floor)
Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific 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 and 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 of the Trager awardee, along with the work of trainee investigators in ACMCIP-related research. These include an ASTMH 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 educational and aspirational event for ACMCIP trainee members and the broader ASTMH membership.

CHAIR
Lola Fagbami
University of Georgia, Athens, GA, United States
Michael Hsieh
Childrens National, Washington, DC, United States

4 p.m.
INTRODUCTION

4:10 p.m.
MODELING TOXOPLASMA SEXUAL DEVELOPMENT IN MICE AND MICROPHYSIOLOGICAL DEVICES
Laura Knoll
University of Wisconsin-Madison, Madison, WI, United States

4:40 p.m.
DEDUCING THE EFFECT OF VARIABLE O2 CONCENTRATIONS ON *PLASMODIUM FALCIPARUM* GROWTH
Dinah Nahid
Wake Forest University, Winston-Salem, NC, United States

4:50 p.m.
RESTING BEHAVIOUR OF AFRICAN MALARIA VECTORS IN AN ERA OF HIGH INDOOR INSECTICIDE USE
Kevin Owuor
University of Nairobi; Kenya Medical Research Institute, Nairobi City; Kisumu City, Kenya

5 p.m.
MODIFIED CHOLESTEROL AS A NOVEL DRUG DELIVERY SYSTEM AGAINST APICOMPLEXAN PARASITES
Merryn Fraser
The Australian National University; Humboldt Universität zu Berlin, Canberra, Australia; Berlin, Germany

5:10 p.m.
JUNIOR INVESTIGATOR AWARD WINNER

5:30 p.m.
ACMCIP ANNUAL BUSINESS MEETING
Mahalia S. Desruisseaux
Yale University School of Medicine, New Haven, CT, United States

Symposium 82

Clinical Group (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH) Symposium II: Practical Considerations of When and How to Screen and Manage Helminth Infections in Non-Endemic Areas

Convention Center - Room 608/609 (6th Floor)
Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

Helminth infections have plagued humans for centuries and are more common human infectious agents in developing countries and a greater global burden of disease than diseases that frequently get more attention, such as malaria and tuberculosis. They also remain a threat to travelers from non-endemic countries who are frequently exposed to these infections. The disease manifestations of these parasitic infections are often poorly understood and therefore inadequately recognized, especially by clinicians who are unfamiliar with them. One of the simple challenges is determine who should be screened for them as well as what course of action should be taken when diagnostic tests turn up positive. The Clinical Group membership has expressed increasing interest in clinically relevant subjects with very practical take-home pearls for their practice. Therefore, this symposium aims to provide a very practical overview of considerations for the evaluation of patients for potential helminth infections in non-endemic areas. The general aspects that will be covered in each of the talks include: in whom is screening indicated; what screening test(s) is/are reasonable; what evidence is there that screening helps; and if screening tests are positive, what should be done?

CHAIR

Mark Kortepeter
Uniformed Services University, Bethesda, MD, United States

Edward Mitre
Uniformed Services University, Bethesda, MD, United States

4 p.m.
INTRODUCTION

4:10 p.m.
PRACTICAL ISSUES IN DIAGNOSIS OF INTESTINAL HELMINTHS IN LOW ENDEMICITY AREAS

Rojelio Mejia
Baylor College of Medicine, Houston, TX, United States

4:35 p.m.
PRACTICAL ASPECTS FOR SCREENING AND TREATMENT OF FASCIOLA INFECTIONS

Miguel Cabada
UTMB, Galveston, TX, United States

5 p.m.
PRACTICAL ASPECTS OF SCREENING AND TREATING REFUGEES FOR INFECTIONS

Sapha Barkati
McGill University Health Centre, Montreal, QC, Canada

Scientific Session 83

Bacteriology: Enteric Infections

Convention Center - Room 611/612 (6th Floor)
Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

CHAIR

Richard Omore
Kenya Medical Research Institute Centre For Global Health, Kisumu City, Kenya

Christine Marie George
Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

4 p.m. 1209

THREE YEAR EFFICACY RESULTS FROM AN INDIVIDUALLY RANDOMIZED CONTROLLED DOUBLE-BLINDED TRIAL OF A TYPHOID CONJUGATE VACCINE IN MALAWI

Priyanka Patel[1], Yuanyuan Liang[2], James E. Meiring[3], Tsion Girmay[2], Shrimati Datta[2], Theresa Misiri[1], Felistas Mwakiseghile[1], Kathleen J. Tracy[2], Clemens Masesa[1], Marc Henrion[1], Matthew B. Laurens[2], Robert S. Heyderman[4], Melita A. Gordon[1], Kathleen M. Neuzil[2]
[1]Malawi – Liverpool – Wellcome Clinical Research Programme, Blantyre, Malawi, [2]Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, [3]Department of Infection, Immunity and Cardiovascular Disease, University of Sheffield, Sheffield, United Kingdom, [4]Division of Infection and Immunity, University College London, London, United Kingdom

4:15 p.m. 1210

FIELD EVALUATION OF TYPHOID CONJUGATE VACCINE IN A CATCH-UP CAMPAIGN AMONG CHILDREN AGED 9 MONTHS TO 15 YEARS IN SINDH, PAKISTAN

Farah Naz Qamar[1], Rozina Thobani[1], Mohammad Tahir Yousafzai[1], Shazia Sultana[1], Abdul Momin Kazi[1], Muhammad Jan[1], Abdul Rafey[1], Ayub Khan[1], Seema Irfan[1], Ikram Uddin Ujjan[2], Nick Brown[3], Andreas Mårtensson[3]
[1]Aga Khan University, Karachi, Pakistan, [2]Liaquat University of Medical and Health Sciences, Hyderabad, Pakistan, [3]Department of Women's and Children's Health, International Maternal and Child Health (IMCH), International Child Health and Nutrition, MTC-huset, 14B 2 tr 752 37 Uppsala University, Sweden, Uppsala, Sweden

4:30 p.m. 1211

CASE-CONTROL INVESTIGATION OF INVASIVE SALMONELLA DISEASE IN AFRICA REVEALS NO EVIDENCE OF ENVIRONMENTAL OR ANIMAL RESERVOIRS OF INVASIVE STRAINS

Leonard Koolman[1], Reenesh Prakash[1], Yohane Diness[1], Chisomo Msefula[2], Tonney Nyirenda[2], Franziska Olgemoeller[1], Blanca Perez Sepulveda[3], Paul Wigley[3], Jay Hinton[3], Sian Owen[3], Nicholas Feasey[1], **Philip Ashton**[1], Melita Gordon[1]
[1]Malawi-Liverpool-Wellcome, Blantyre, Malawi, [2]Kamuzu University of Health Sciences, Blantyre, Malawi, [3]University of Liverpool, Liverpool, United Kingdom

4:45 p.m. 1212

CHARACTERIZING THE NATURAL HISTORY OF SHIGELLA DIARRHEA AND SUB-CLINICAL INFECTIONS AMONG CHILDREN IN A LONGITUDINAL BIRTH COHORT

Maria Garcia Quesada[1], James A. Platts-Mills[2], Jie Liu[3], Eric R. Houpt[2], Mateusz Hasso-Agopsowicz[4], Elizabeth T. Rogawski McQuade[1]
[1]Emory University, Atlanta, GA, United States, [2]University of Virginia School of Medicine, Charlottesville, VA, United States, [3]Qingdao University, Qingdao, China, [4]World Health Organization, Geneva, Switzerland

5 p.m. 1213

GASTROENTERITIS-ASSOCIATED DEATHS AMONG CHILDREN AGED 1-59 MONTHS IN RURAL AND URBAN WESTERN KENYA, 2017-2021: FINDINGS FROM THE CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE (CHAMPS)

Richard Omore[1], Kitiezo Aggrey Igunza[1], Billy Ogwel[1], Joyce Were[1], Sammy Khagayi[1], Dickson Gethi[1], Dickens Onyango[2], Marc Bulterys[3], Beth A. Tippett Barr[4], Victor Akelo[5]
[1]Kenya Medical Research Institute, Center for Global Health Research, Kisumu, Kenya, [2]Kisumu County Health Department, Kisumu, Kenya, [3]US Centers for Disease Control and Prevention, Nairobi, Kenya, [4]Nyanja Health Research Institute, Salima, Malawi, [5]US Centers for Disease Control and Prevention, Kisumu, Kenya

5:15 p.m. 1214

META-ANALYSIS OF GENOME-WIDE ASSOCIATION STUDIES OF DIARRHEA IN THE FIRST YEAR OF LIFE AMONG BANGLADESHI INFANTS IDENTIFIES GENOME-WIDE SIGNIFICANT LOCUS ON CHROMOSOME 21

Rebecca M. Munday[1], Rashidul Haque[2], Genevieve L. Wojcik[3], Poonum Korpe[3], Uma Nayak[4], Beth D. Kirkpatrick[5], William A. Petri[4], Priya Duggal[3]
[1]Johns Hopkins University School of Medicine, Baltimore, MD, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [4]University of Virginia School of Medicine, Charlottesville, VA, United States, [5]University of Vermont College of Medicine and Vaccine Testing Center, Burlington, VT, United States

5:30 p.m.

1215

AKKERMANSIA MUCINIPHILA IS ASSOCIATED WITH IMPROVEMENTS IN LINEAR GROWTH AMONG YOUNG CHILDREN IN THE DEMOCRATIC REPUBLIC OF THE CONGO (REDUCE PROGRAM)

Christine Marie George[1], Alves Birindwa[1], Shan Li[2], Camille Williams[1], Jennifer Kuhl[1], Elizabeth Thomas[1], Ruthly François[1], Amani Sanvura Presence[1], Bisimwa Rusanga Jean Claude[1], Patrick Mirindi[1], Lucien Bisimwa[1], Jamie Perin[1], O. Colin Stine[1]
[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]University of Maryland, Baltimore, MD, United States

Scientific Session 84

One Health: The Interconnection between People, Animals, Plants and Their Shared Environment

Convention Center - Room 613/614 (6th Floor)
Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

CHAIR

Rose Jalang'o
National Vaccines and Immunization Program, Ministry of Health, Nairobi, Kenya

Kelly Baker
University of Iowa, Iowa City, IA, United States

4 p.m.

1216

FOOD SAFETY AND ECONOMIC IMPLICATIONS OF IVERMECTIN MASS DRUG ADMINISTRATION IN SWINE - A ONE HEALTH PERSPECTIVE ON THE FUTURE OF MALARIA VECTOR CONTROL

Cassidy Rist[1], Alphonce Assenga[1], Mussa Sale[2], Rosalina Ferreira[2], Almudena Sanz[3], Paula Ruiz-Castillo[3], Victor Mutepa[2], Patricia Nicolas[2], Samuel Martinho[2], Julia Montana[2], Caroline Kiuru[2], Felisbela Materrula[2], Humberto Munguambe[2], Saimado Imputiua[2], Amelia Houana[2], Marta Maia[4], Mary Mael[3], Mary-Ann Richardson[3], Aida Xerinda[2], Eldo Elobolobo[2], Aina Casellas[3], Regina Rabinovich[3], Carlos Chaccour[3], Francisco Saute[2]
[1]Virginia-Maryland College of Veterinary Medicine at Virginia Tech, Blacksburg, VA, United States, [2]Centro de Investigação em Saúde de Manhiça, Mopeia, Mozambique, [3]Barcelona Institute for Global Health - Campus Clinic, Barcelona, Spain, [4]Kemri-Wellcome Trust Research Programme, Kilifi, Kenya

4:15 p.m.

1217

EXPLORING SARS-COV-2 DYNAMICS AT THE ANIMAL-HUMAN INTERFACE: WHITE-TAILED DEER AND WHITE-FOOTED MICE AS SECONDARY RESERVOIRS IN CONNECTICUT

Rebecca Earnest[1], Anne M. Hahn[1], Mallery I. Breban[1], Chantal B.F. Vogels[1], Laura B. Goodman[2], Megan A. Linske[3], Craig B. Wilen[4], Scott C. Williams[3], Nathan D. Grubaugh[1]
[1]Yale School of Public Health, New Haven, CT, United States, [2]Cornell University College of Veterinary Medicine, Ithaca, NY, United States, [3]The Connecticut Agricultural Experiment Station, New Haven, CT, United States, [4]Yale School of Medicine, New Haven, CT, United States

4:30 p.m.

1218

CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS IN CENTRAL, EASTERN, AND SOUTH-EASTERN ASIA

Mohammad Fereidouni[1], Jens H. Kuhn[2], David B. Pecor[3], Dmitry A. Apanaskevich[4], Natalia Pshenichnaya[5], **Maryam Keshtkar-Jahromi**[6]
[1]Jahrom University of Medical Science, Jahrom, Islamic Republic of Iran, [2]Integrated Research Facility at Fort Detrick, Division of Chemical Research, National Institute of Allergy and Infectious Diseases, National Institute of Health, Frederick, MD, United States, [3]Department of Entomology, Walter Reed Biosystematics Unit, Smithsonian Institution, Suitland, MD, United States, [4]U.S. National Tick Collection, The James H. Oliver Jr. Institute for Coastal Plain Science, Statesboro, GA, United States, [5]National Medical Research Center of Phthisiopulmonology and Infectious Diseases, Moscow, Russian Federation, [6]Johns Hopkins University School of Medicine, Baltimore, MD, United States

4:45 p.m.

1219

RISK FACTORS AND SPATIOTEMPORAL PATTERNS OF CEPHALOSPORIN-RESISTANT AND EXTENDED-SPECTRUM BETA-LACTAMASE PRODUCING ESCHERICHIA COLI CARRIAGE IN CHILDREN AND DOMESTIC ANIMALS IN A FOOD-ANIMAL PRODUCING REGION OF QUITO, ECUADOR

Heather K. Amato[1], Fernanda Loayza[2], Carlos H. Saraiva Garcia[2], Amy J. Pickering[1], Lee W. Riley[1], Gabriel Trueba[2], Jay P. Graham[1]
[1]University of California, Berkeley, Berkeley, CA, United States, [2]Universidad San Francisco de Quito, Quito, Ecuador

5 p.m.

1220

GENETIC EVOLUTION AND TRANSMISSION DYNAMICS OF H5N1 AND H5N6 VIRUSES IN HOUSE CROW (CORVUS SPLENDENS) AND POULTRY IN BANGLADESH

Ariful Islam[1], Shariful Islam[2], Melinda K Rostal[3], Mohammad Enayet Hossain[4], Emily Hagan[3], Mohammad Mahmudul Hassan[5], Mohammad A Samad[6], Meerjady Sabrina Flora[2], Mohammed Ziaur Rahman[4], Marcel Klaassen[1], Jonathan H Epstein[3]
[1]Deakin University, Melbourne, Australia, [2]Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh, [3]EcoHealth Alliance, New York, NY, United States, [4]International Centre for Diarrheal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh, [5]University of Queensland, Gatton, Australia, Australia, [6]Bangladesh Livestock Research Institute (BLRI), Savar, Dhaka, Bangladesh

5:15 p.m.

1221

BURDEN AND RISK FACTORS OF SNAKEBITE IN MOPEIA, MOZAMBIQUE: A DESCRIPTIVE ANALYSIS

Emma O'Bryan[1], Saimado Imputiua[2], Eldo Elobolobo[2], Patricia Nicolas[1], Julia Montana[1], Edgar Jamisse[2], Humberto Munguambe[2], Aina Casellas[1], Paula Ruiz-Castillo[1], Regina Rabinovich[1], Charfudin Sacoor[2], Francisco Saute[2], Carlos Chaccour[1]
[1]ISGlobal, Barcelona Institute for Global Health, Barcelona, Spain, [2]Centro de Investigação em Saúde de Manhiça, Manhiça, Mozambique

5:30 p.m.

1222

DETECTION OF *PLASMODIUM* SP. IN NEOTROPICAL PRIMATES RESCUED FROM WILDLIFE TRAFFICKING IN PERU

Fernando Javier Vilchez Delgado[1], Pamela Rodríguez Reyna[2], A. Patricia Mendoza[3], Marieke Rosenbaum[1], Francesca Falconi Agapito[2], Berónica Infante Garcia[2], Raúl Bello Santa Cruz[4], Dionicia Gamboa[2], Michael Talledo Albújar[2]
[1]Tufts University, North Grafton, MA, United States, [2]Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Neotropical Primate Conservation, Moyobamba, Peru, [4]Estación Biológica Kawsay, Madre de Dios, Peru

Symposium 85

Meeting WHO Verification Guidelines for Onchocerciasis Elimination: Perspectives of Defining Onchocerciasis Transmission Zones in East Africa including Areas Co-Endemic with Lymphatic Filariasis

Convention Center - Room 615/616/617 (6th Floor)
Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

An onchocerciasis transmission zone (TZ) is defined as a "geographical area where the parasite Onchocerca volvulus is transmitted by locally breeding Simulium [black flies] (WHO 2016)". The extent of the TZ is most often delineated by the flight range of the vector and existing ecological conditions. As a result, TZs do not adhere to administrative district boundaries and may cross multiple or partial districts. Clearly defining TZs and targeting interventions can be difficult (particularly in heavily forested areas) and implementation at the sub-district has its own challenges, thus, many onchocerciases endemic countries have defaulted to using administrative units to define the geographic extent of interventions. This approach has been effective in reaching large areas but left TZs un-delineated. As programs progress and transmission is interrupted, understanding the true extent of TZs becomes critical in ensuring true elimination is ascertained, and that recrudescence does not occur. This session will address the challenges of delineating TZs and operationalizing elimination programs in complex settings. Drawing from Eastern Africa, we will explore the challenges of delineating TZs in complex, diffuse transmission settings, in areas where LF is co-endemic and has been treated, large population that does not require treatment, and adapting to changing patterns in known TZs and their 'hotspots'. In Tanzania, the onchocerciasis strategy began as a control program in 1997, targeting only communities with a nodule rate of above 20%. With a shift to the elimination of transmission in 2016, this target was reduced to a 2% OV16 serology threshold. During the preceding years the country had also begun LF treatments through administrative borders using the same drug, ivermectin, that is used for onchocerciasis making the delineation of transmission difficult. Along the Sudan-Ethiopia border, efforts to coordinate both epidemiologic assessments as well as interventions have required extensive collaboration between the two governments at varying stages of intervention. An effort was made to ensure that cross-border transmission did not hinder the progress of either program. On the Ethiopian side, as the TZ began to shrink, a 'hotspot' of transmission was delineated, allowing the rest of the TZ to be reclassified as transmission interrupted and focusing resources to target ongoing transmission inside the hotspot. In Uganda, where district-level interventions were done, delineation of the TZ allowed for a more focused approach and excluded large populations not requiring MDA to be excluded. In addition, defining TZs in areas with complex river systems and diffuse transmission patterns has similarly focused resources on where they are most needed.

CHAIR

Upendo J. Mwingira
RTI international, Washington, DC, United States

Darin Evans
USAID, Washington, DC, United States

4 p.m.
INTRODUCTION

4:10 p.m.
APPROACH TOWARDS DELINEATING ONCHOCERCIASIS TRANSMISSION IN AREAS CO-ENDEMIC WITH LYMPHATIC FILARIASIS. TANZANIA PERSPECTIVE
Akili Kalinga
National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

4:25 p.m.
GALABAT-METEMA CROSS-BORDER ONCHOCERCIASIS FOCUS, THE FIRST CO-ORDINATED INTERRUPTION OF TRANSMISSION IN AFRICA WITH A HOTSPOT (SUDAN-ETHIOPIA)
Asam Zroug
Federal Ministry of Health, Khartoum, Sudan

4:40 p.m.
DELINEATION OF WUDE GEMUZ HOTSPOT IN GALABAT-METEMA FOCUS, AND INTENSIFICATION OF INTERVENTIONS (ETHIOPIA)
Fikre Seife
Federal MOH, Addis Ababa, Ethiopia

4:55 p.m.
SHRINKING THE ONCHOCERCIASIS MAP OF BUNYORO REGION OF WESTERN UGANDA THROUGH DELINEATION OF TRANSMISSION ZONES (UGANDA)
Edridah Muheki
Ministry of Health, Kampala, Uganda

5:10 p.m.
DELINEATION IN DIFFUSE TRANSMISSION SETTINGS
Moses Katabarwa
RTI, Atlanta, GA, United States

Symposium 86

Overcoming Neglected Challenges to Malaria Elimination to Reach the Last-Mile

Convention Center - Room 618/619/620 (6th Floor)
Tuesday, November 1, 4 p.m. - 5:45 p.m. U.S. Pacific Time Zone

This symposium will focus on addressing critical challenges to malaria elimination some that are often overlooked in malaria prevention, control and elimination efforts. These challenges need to be urgently addressed since health equity is only achieved when everyone can attain their full potential for health and well-being. Global, regional and country-level experts will present on gender equality, conflict, climate change as well as COVID-19 and drug resistance. This includes a presentation about gender-based investments and strategies in malaria prevention, control and elimination efforts, which are key to achieving elimination. It will also explore the unique adverse effects on women and adolescent

girls caused by malaria and how focusing on their needs should be central to the malaria fight. The critical challenges faced by malaria implementing partners in Myanmar will be described as well as and how the provision of malaria test-treat-track activities and commodity imports and distribution have been affected. Most importantly, how the country malaria programs have been able to adapt to provide life-saving services and leave no one behind. The contributions of climate change to unpredictable malaria patterns and creating new breeding sites for mosquitoes will be showcased including how it is increasing the vulnerability of at-risk populations. The challenges posed by drug resistance as well as the development and deployment of new treatment options will be explained. This symposium will also look at how the pandemic is disrupting prevention efforts and access to malaria testing and treatment as well as how the existing malaria systems and structures have contributed to the fight against COVID-19. The presentations will be followed by a moderated discussion with closing remarks from the co-chair from Africa Leaders Malaria Alliance (ALMA).

CHAIR

Irene Koek
Save the Children US, Washington, DC, United States

Elizabeth Chizema-Kawesha
African Leaders Malaria Alliance (ALMA), Dar es Salaam, United Republic of Tanzania

4 p.m.
INTRODUCTION

4:10 p.m.
WHAT IT MEANS – AND WHAT IS THE POTENTIAL – FOR MAKING WOMEN'S NEEDS CENTRAL TO THE MALARIA FIGHT

Alaa Murabit
Bill & Melinda Gates Foundation, Seattle, WA, United States

4:25 p.m.
CLIMATE CHANGE – IS IT CHANGING MALARIA?

Rick Steketee
U.S. President's Malaria Initiative, Washington, DC, United States

4:40 p.m.
ADAPTING TO THE NEEDS OF MALARIA IMPLEMENTATION IN CHALLENGING OPERATING ENVIRONMENTS

Min Min Thein
Save the Children Myanmar, Yangon, Myanmar

4:55 p.m.
CAN TRIPLE ARTEMISININ-BASED COMBINATION THERAPIES FOR MALARIA PROTECT ACTS IN TIMES OF ARTEMISININ RESISTANCE?

Chanaki Amaratunga
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

5:10 p.m.
FROM MALARIA TO COVID: PANDEMIC LESSONS AND THE WISDOM OF INDIGENOUS HEALTH SOLUTIONS

Sarthak Das
Asia Pacific Leaders Malaria Alliance, Singapore, Singapore

Break

Tuesday, November 1, 5:45 p.m. – 6 p.m.

Scientific Session 87

Malaria: Immune Responses to Malaria - Different Approaches and Settings

Convention Center - Room 6AB (6th Floor)
Tuesday, November 1, 6 p.m. - 7:45 p.m. U.S. Pacific Time Zone

CHAIR

Andrea Berry
University of Maryland School of Medicine, Baltimore, MD, United States

Nora Cespedes
University of Idaho, Moscow, ID, United States

6 p.m. **1223**

LONGITUDINAL TRACKING OF T FOLLICULAR HELPER CELLS IN CHILDREN DURING MALARIA TRANSMISSION DISRUPTION

Mayimuna Nalubega[1], Megan Soon[1], Dean Andrew[1], Jessica Loughland[1], Nick Dooley[1], Nankya Felistas Namirimu[2], Kenneth Musinguzi[2], Abel kakuru[2], John Rek[2], Emmanuel Arinaitwe[2], Isaac Ssewanyana[2], Moses Kamya[2], Prasanna Jagannathan[3], Margaret Feeney[4], Michelle Boyle[1]
[1]Queensland Institute of Medical Research, Berghofer, Brisbane, Australia, [2]Infectious Diseases Research Collaboration, Kampala, Uganda, [3]Department of Medicine, Stanford University, Stanford, CA, United States, [4]University of California San Francisco, San Francisco, CA, United States

6:15 p.m. **1224**

IL-10 DERIVED FROM MAST CELLS PROTECTS INTESTINAL BARRIER INTEGRITY DURING MALARIA AND CONTROLS PARASITE TRANSMISSION TO ANOPHELES STEPHENSI

Nora Cespedes[1], Erinn L. Donnelly[1], Gretchen Hansten[1], Joseph Joseph[2], Judy Van de Water[2], Shirley Luckhart[1]
[1]University of Idaho, Moscow, ID, United States, [2]University of California, Davis, Davis, CA, United States

(ACMCIP Abstract)

6:30 p.m. **1225**

PLASMODIUM FALCIPARUM GAMETES AND SPOROZOITES ACQUIRE PLASMINOGEN TO EVADE HUMAN COMPLEMENT

Medard Ernest[1], Thiago Rosa[2], Zarna Pala[1], Heather Kudyba[1], Gabriele Pradel[2], Joel Vega-Rodriguez[1]
[1]NIH, rockville, MD, United States, [2]RWTH Aachen university, Aachen, Germany

6:45 p.m. **1226**

IMPACT OF IMMUNITY AGAINST *P. VIVAX* GAMETOCYTES IN MODULATING THE HUMAN-TO-MOSQUITO TRANSMISSION OF PARASITES IN ETHIOPIA AND CAMBODIA

Surafel Kefyalew Tebeje[1], Wakweya Chali[1], Elifaged Hailemeskel[1], Karina Teelen[2], Kjerstin Lanke[2], Sophy CH[3], Ivo Hansen[2], Will Stone[4], Chris Drakeley[4], Matthijs Jore[2], Amelie Vantaux[3], Fitsum Tadesse[1], Teun Bousema[2]
[1]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [2]Radboudumc, Nijmegen, Netherlands, [3]Institut Pasteur du Cambodge, Phnom Penh, Cambodia, [4]London School of Hygiene and Tropical Medicine, London, United Kingdom

(ACMCIP Abstract)

7 p.m. 1227

LEVELS OF NEUTROPHIL EXTRACELLULAR TRAPS ARE ELEVATED IN CLINICAL CASES OF *PLASMODIUM KNOWLESI* MALARIA

Angelica Fiona Tan[1], Sitti Saimah Sakam[2], Giri S. Rajahram[2], Timothy William[2], Bridget E. Barber[1], Nicholas M. Anstey[1], Steven Kho[1], Matthew J. Grigg[1]
[1]Menzies School of Health Research, Charles Darwin University, Casuarina, Australia, [2]Infectious Diseases Society Kota Kinabalu Sabah, Sabah, Malaysia

7:15 p.m. 1228

TEMPORALLY PERSISTENT HEMOSTASIS DYSFUNCTION IN KENYAN CHILDREN RECOVERING FROM CEREBRAL MALARIA

Arlene Dent[1], Paula Embury[1], Yelenna Skomorovska-Prokvolit[1], Katherine Dobbs[1], Elizabeth Hemming-Schroder[1], Sidney Ogolla[2], Alvin Schmaier[1], Allesandro Pinheiro[1], Bruce A. Rosa[3], Makedonka Mitreva[3], James Kazura[1]
[1]Case Western Reserve University, Cleveland, OH, United States, [2]Kenya Medical Research Institute/Center for Global Health Research, Kisumu, Kenya, [3]Washington University School of Medicine, St. Louis, MO, United States

7:30 p.m. 1229

PROTEOME-WIDE PROFILING OF ANTIBODY TARGETS WITH PHIP-SEQ IN UGANDAN COHORTS IDENTIFIES ASSOCIATIONS BETWEEN AGE, EXPOSURE INTENSITY, AND RESPONSES TO REPEAT-CONTAINING ANTIGENS IN *P. FALCIPARUM* MALARIA

Madhura Raghavan[1], Katrina L. Kalantar[2], Elias Duarte[3], Saki Takahashi[1], Andrew Kung[1], Jayant V. Rajan[1], Noam Teyssier[1], John Rek[4], Kevin K.A. Tetteh[5], Chris Drakeley[5], Isaac Ssewanyana[4], Isabel Rodriguez-Barraquer[1], Bryan Greenhouse[1], Joseph L. DeRisi[1]
[1]University of California San Francisco, San Francisco, CA, United States, [2]Chan Zuckerberg Initiative, Redwood City, CA, United States, [3]University of California Berkeley, Berkeley, CA, United States, [4]Infectious Disease Research Collaboration, Kampala, Uganda, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom

(ACMCIP Abstract)

Symposium 88

LIVE STREAMING

AJTMH Stories from the Field Hosts ASTMH's First StorySlam

Convention Center - Room 6C (6th Floor)
Tuesday, November 1, 6 p.m. - 7:45 p.m. U.S. Pacific Time Zone

How do you respond to a 2:30 am text message in a mixture of Tshikete, a local language, and Tshiluba, a regional language, "Bakwa Tombe greets you with pleasure. There is a lot of death from Ebola. When are you coming to build a hospital?" Dr. Peter Kilmarx, Deputy Director of the Fogarty International Center, kicks off ASTMH's first StorySlam by sharing how he ended up receiving that text and what happened next. The personal stories behind our work are often just beneath the surface of scientific abstracts. Coming together to share the research and the results often relegates the stories of the people to hallway chats between sessions or mealtime conversations. This session aims to give these stories the time and space they deserve. Each 10-minute story shares a different perspective from within ASTMH. Dr. Damasi Flavian will share his experience living and working as a clinician in Arusha, Tanzania, where trust in traditional herbs sometimes trumps trust in hospitals. Dr. Shaymaa Abdalal will share her experience working as the only woman in her field as she tries to bring travel medicine and care for neglected tropical diseases (NTDs) to her native Saudi Arabia. Dr. Nasreen Quadri will share her experience of global health in a local context in the United States where she cares for an increasingly diverse patient population. The audience will also meet the world renown Dr. Njeri Wamae, who will join the session virtually from Kenya. Her story takes attendees back and forth from the warm blue skies of Kenya to the racially-biased cold winter climates in the north. First she traverses these worlds in search of a college education and later working in the best-equipped laboratories in the world and on high-powered missions advocating for NTD control and elimination. While listening to these excellent storytellers, participants will also learn ways to improve their own storytelling. Former ASTMH president Dr. Claire Panosian Dunavan and current *AJTMH* Stories from the Field section editor Dr. Kristina Krohn will share how to be a storyteller at a future ASTMH StorySlam. For the final story, the audience will hear first from the patient herself, Julie Packard, and then from her clinician Paul Pottinger, an infectious disease doctor at University of Washington Medical Center. Walking through Julie's encounter with an NTD is a reminder that each illness encountered affects the everyday lives of real people. It is because of these people that we do this work. Storytelling is an essential part of raising awareness of the important work done by members of ASTMH and encouraging everyone to improve health around the world.

CHAIR

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

Claire Panosian Dunavan
David Geffen School of Medicine at UCLA, Los Angeles, CA, United States

6 p.m.
INTRODUCTION

6:10 p.m.
THE TEXT MESSAGE

Peter H. Kilmarx
Fogarty International Center, U.S. National Institutes of Health, Bethesda, MD, United States

6:20 p.m.
ALL EYES ON ME

Damasi Flavian Bayo
Selian Lutheran Hospital, Arusha, United Republic of Tanzania

6:30 p.m.
A HIDDEN REALITY FOR WOMEN IN SCIENCE

Shaymaa Abdalal
King Abdulaziz University Faculty of Medicine, Jeddah, Saudi Arabia

6:40 p.m.
A HYGIENE CLASS AND FIVE DECADES ON

Njeri Wamae
M&D Audubon Consultants, Nairobi, Kenya

6:50 p.m.
THE GLOBAL IS PERSONAL

Nasreen Syeda Quadri
Abbott Northwestern Hospital, Minneapolis, MN, United States

7 p.m.
TROUBLE IN PARADISE
Julie Packard
Fred Hutch Cancer Research Center, Seattle, WA, United States

7:10 p.m.
AS THE WORM TURNS
Paul Pottinger
University of Washington Medical Center, Seattle, WA, United States

Symposium 89

Advances in Point-Of-Care Technologies for NTDs

Convention Center - Room 602/603/604 (6th Floor)
Tuesday, November 1, 6 p.m. - 7:45 p.m. U.S. Pacific Time Zone

Screening and diagnosis of Neglected Tropical Diseases (NTDs) have typically relied on conventional methods such as smear microscopy to detect the presence of parasites. While lateral flow assays and other molecular tests have simplified identification of some diseases, schistosomiasis, soil-transmitted helminths (STHs), and filarial infections have not benefited significantly from modern advances in diagnostic technologies. New approaches that require less training and are faster, cheaper, and more accurate than conventional microscopy are urgently needed to accelerate NTD control and elimination programs. These advances will enable rapid point-of-care screening of individuals for treatment, support mass drug administration (MDA) starting and stopping decisions, and monitor re-emergence and spread of infections. This symposium will review new mobile phone-based technologies for the diagnosis of NTDs at the point of care. The technologies harness the camera of the mobile phone as a microscope and utilize the onboard processing capabilities to automatically analyze captured images without the need for expert microscopists. The familiarity of the mobile phone interface simplifies training, and the reliance on mass-produced components facilitates scale-up of the technology. Combined with novel sample preparation and handling techniques that do not require laboratory equipment typically unavailable in many low-resource settings, mobile microscopy has the potential to enable rapid and sensitive testing for multiple NTDs. Demonstrated initially as a way of rapidly quantifying Loa loa microfilaria in support of onchocerciasis treatment in Loa-endemic regions, mobile microscopy is currently being applied to screening and diagnosis of other NTDs. This symposium will focus on recent technology advancements that broaden the uses of mobile microscopy and pilot studies with the technologies. Symposium speakers will include trainees, scientists, and engineers from both industry and academia working on the development of hardware, sample preparation, imaging, and implementation of machine learning for automated parasite identification, as well as pilot-testing of new tools. With further development, mobile microscopy has the potential to become a platform technology that addresses multiple NTDs, enables a broad range of assays at the point of care, and serves as a key element of decentralized healthcare in the future.

CHAIR
Daniel A. Fletcher
UC Berkeley, Berkeley, CA, United States
Matt Keller
Global Health Labs, Bellevue, WA, United States

6 p.m.
INTRODUCTION

6:10 p.m.
MOBILE MICROSCOPY FOR POINT-OF-CARE SCREENING
Isaac I. Bogoch
Toronto General Hospital, Toronto, ON, Canada

6:30 p.m.
PILOT STUDIES OF SCHISTOSOMIASIS SCREENING WITH A MOBILE PHONE MICROSCOPE
Jean Tenena Coulibaly
Centre Suisse de Recherches Scientifiques, Abidjan, Côte D'Ivoire

6:50 p.m.
SIMPLIFYING SAMPLE PREPARATION FOR SCHISTOSOMA AND STH IMAGING
Anne-Laure Le Ny
Global Health Labs, Bellevue, WA, United States

7:10 p.m.
MACHINE LEARNING FOR AUTOMATED SCHISTOSOMIASIS DETECTION
Maria Diaz de Leon Derby
UC Berkeley, Berkeley, CA, United States

Wednesday, November 2

Registration

Convention Center - Atrium Lobby (4th Floor)
Wednesday, November 2, 7 a.m. - 5 p.m. U.S. Pacific Time Zone

Speaker Ready Room

Convention Center - Room 310 (3rd Floor)
Wednesday, November 2, 7 a.m. - 5 p.m. U.S. Pacific Time Zone

Meeting Sign-Up Room

Convention Center – Rooms 213 and 214 (2nd Floor)
Wednesday, November 2, 7 a.m. - 7 p.m. U.S. Pacific Time Zone

TropStop - Student/Trainee Lounge

Convention Center - Room 3A (3rd Floor)
Wednesday, November 2, 7 a.m. - 5 p.m. U.S. Pacific 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.

ASTMH Presidents Meeting

Sheraton - Jefferson AB (Union Street Tower - 4th Floor)
Wednesday, November 2, 7 a.m. - 8 a.m. U.S. Pacific Time Zone

Diploma Course Certification Committee Meeting

Convention Center - Room 209 (2nd Floor)
Wednesday, November 2, 7 a.m. - 8 a.m. U.S. Pacific Time Zone

NIH Grant Meeting: IDCRC Clinical Trials Network (By invitation only)

Convention Center - Room 204 (2nd Floor)
Wednesday, November 2, 7 a.m. – 8 a.m.

Scientific Program Committee Meeting

Convention Center - Room 2AB (2nd Floor)
Wednesday, November 2, 7:15 a.m. – 8:15 a.m. U.S. Pacific Time Zone

Press Room

Convention Center - Room 309 (3rd Floor)
Wednesday, November 2, 7:45 a.m. - 5:30 p.m. U.S. Pacific Time Zone

Scientific Session 90

LIVE STREAMING Malaria: Epidemiology, Surveillance and Data Utilization

Convention Center - Room 6AB (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Peter D. McElroy
CDC, Atlanta, GA, United States

Maurice Ye
U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Chapel Hill, NC, United States

8 a.m. **1230**

PREVALENCE OF *PLASMODIUM FALCIPARUM* INFECTIONS IN PREGNANT WOMEN DURING THE FIRST ANTENATAL CLINIC VISIT AND ASSESSMENT OF MATERNAL AND PLACENTAL *P. FALCIPARUM* INFECTIONS AT DELIVERY IN TANZANIA, KENYA AND MALAWI

Queen S. Naumanga[1], George Mtove[2], Christentze Schmiegelow[3], Daniel Minja[2], Judith Njau[4], Mwayiwawo Madanitsa[5], Hellen Barsosio[6], Feiko ter Kuile[7], Reginald Kavishe[8], Michael Alifrangis[3]
[1]Kilimanjaro Clinical research institute, Moshi, United Republic of Tanzania, [2]National Institute for Medical Research. Tanga Centre, Tanga, United Republic of Tanzania, [3]Centre for Medical Parasitology, Department of Immunology and Microbiology, University of Copenhagen, Copenhagen, Denmark and Department of Infectious Diseases, Copenhagen University Hospital, Copenhagen, Denmark, [4]Kilimanjaro Clinical research institute, Moshi, United Republic of Tanzania, [5]College of Medicine, University of Malawi, Blantyre, Blantyre, Malawi, [6]KEMRI-Coast Centre for Geographical Medicine and Research, University of Oxford, Kilifi, Kisumu, Kenya, [7]Department of Clinical Sciences, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [8]Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania

(ACMCIP Abstract)

8:15 a.m. **1231**

ENHANCING THE CAPACITY AND USABILITY OF VIETNAM'S ELECTRONIC SURVEILLANCE SYSTEM (ECDS-MMS) TO ENSURE COMPREHENSIVE MALARIA DATA AND SURVEILLANCE FOR ELIMINATION

Duong Thahn Tran[1], VH Ho[2], TD Le[3], QT Nguyen[1], QA Nguyen[1], HT Trinh[2], TY Nguyen[3], D. Ta[4], T. Ho[5], S. Bui[4], T. Nguyen[4], P. Pagalday-Olivares[4], I. Ba[4], JM Gwinn[4], H. Pham[4]
[1]National Institute for Malariology, Parasitology, and Entomology, Hanoi, Viet Nam, [2]Institute for Malariology, Parasitology, and Entomology, Quy Nhon, Viet Nam, [3]Institute for Malariology, Parasitology, and Entomology, Ho Chi Minh City, Viet Nam, [4]Clinton Health Access Initiative, Hanoi, Viet Nam, [5]Clinton Health Access Initiative, Ho Chi Minh City, Viet Nam

8:30 a.m. **1232**

IDENTIFYING STRENGTHS AND GAPS IN DATA MANAGEMENT AND REPORTING THROUGH MALARIA ROUTINE DATA QUALITY ASSESSMENT: RESULTS FROM TWO HEALTH REGIONS IN MADAGASCAR

Maurice Ye[1], Jean Marie N'Gbichi[1], Tokinirina Andrianantoandro[1], Joseph Fanor[2], Sabas Rabesahala[3], Urbain Rabibizaka[3], Brune Ramiranirina[3], Celestin Razafinjato[3], Solofo Razakamiadana[4], Lova A. Ralijaona[5], Laurent Kapesa[4], Lavanya Gupta[6], Yazoume Ye[1]
[1]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Chapel Hill, NC, United States, [2]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/JSI, Chapel Hill, NC, United States, [3]National Malaria Control Program, Antananarivo, Madagascar, [4]U.S. President's Malaria Initiative, Antananarivo, Madagascar, [5]United States Agency for International Development, Antananarivo, Madagascar, [6]U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

8:45 a.m.

1233

DIGITALIZED LONG LASTING INSECTICIDAL NET (LLIN) DISTRIBUTION FOR TARGETED REPLACEMENT CAMPAIGN IN THE CONTEXT OF COVID-19 PANDEMIC: A CASE STUDY FOR KATAVI REGION, WESTERN TANZANIA

Mponeja P. Gitanya[1], Samwel Lazaro[1], Charles Dismas[1], Audyphas Kilale[2], Israel P. Nyarubeli[3], Ntuli Kapologwe[4], Stella Kajange[4], David Dadi[5], Benjamin Kamala[5], Deodatus Mwingizi[5], Hannah Koenker[6], Naomi Serbantez[7], Lulu Msangi[7], William Kisinza[2]

[1]National Malaria Control Program Tanzania, Dodoma, United Republic of Tanzania, [2]Amani Research Centre of the National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, [3]Department of Environmental and Occupation Health, Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, [4]President Office Regional Authority and Local Government, Dar es Salaam, United Republic of Tanzania, [5]USAID-Tanzania Vector Control Activity/Johns Hopkins Centre for Communication Programs, Dar es Salaam, United Republic of Tanzania, [6]Tropical Health LLP, Baltimore, MD, United States, [7]US President's Malaria Initiative, United States Agency for International Development, Dar es Salaam, United Republic of Tanzania

9 a.m.

1234

SEROLOGICAL SIGNATURES OF RECENT DECLINES IN MALARIA TRANSMISSION IN PREGNANT WOMEN

Nanna Brokhattingen[1], Arnau Pujol[1], Gloria Matambisso[2], Sonia Maculuve[2], Pau Cisteró[1], Henriques Mbeve[2], Judice Miguel[2], Elena Buetas[1], Ianthe de Jong[1], Boaventura Cuna[2], Cardoso Melembe[2], Nelo Ndimande[2], Anna Escoda[1], Gemma Porras[1], Haily Chen[1], Kevin Tetteh[3], Chris Drakeley[3], Benoit Gamain[4], Chetan Chitnis[5], Virander Chauhan[6], Llorenç Quintó[1], Humberto Munguambe[2], Helena Martí-Soler[1], Júlia Montaña[1], Lidia Nhamussua[2], Wilson Simone[2], Francisco Saúte[2], Pedro Aide[2], Caterina Guinovart[1], Beatriz Galatas[1], Eusébio Macete[2], Alfredo Mayor[1]

[1]Barcelona Institute for Global Health, Barcelona, Spain, [2]Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, [3]Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, [4]Université de Paris, Biologie Intégrée du Globule Rouge, UMR_S1134, Inserm, F-75015, Paris, France, [5]Malaria Parasite Biology and Vaccines, Department of Parasites & Insect Vectors, Institut Pasteur, Paris, France, [6]Malaria Group, International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India

9:15 a.m.

1235

ASSESSMENT OF BASELINE MOLECULAR MARKERS OF SULFADOXINE-PYRIMETHAMINE RESISTANCE IN OSUN AND EBONYI STATE NIGERIA TOWARD IMPLEMENTATION OF INTERMITTENT PREVENTION TREATMENTS IN INFANTS (IPTI)

Omowunmi Omoniwa[1], Adeola Olukosi[2], Sola Ajibaye[2], Khalid Beshir[3], Michael Ekholuenetale[1], Chinazo Ujuju[1], Semiu Rahman[1], Yahya Hamzat[1], Yemi Suleiman[1], Olusola Oresanya[1], Binta Aduke Ismail[4], Nnenna Ogbulafor[5], Lawrence Oburigwe Nwankwo[6], Olufemi Oroge[7], James Tibenderana[8]

[1]Malaria Consortium, Abuja, Nigeria, [2]The Nigerian Institute of Medical Research, Lagos, Nigeria, [3]London School of Tropical Medicine, London, United Kingdom, [4]National Emergency Routine Immunization Coordination Centre, Abuja, Nigeria, [5]National Malaria Elimination Programme, Abuja, Nigeria, [6]nnennanco@yahoo.com, Abakaliki, Nigeria, [7]State Malaria Elimination Program, Osogbo, Nigeria, [8]Malaria Consortium, London, United Kingdom

9:30 a.m.

1236

DISENTANGLING CO-ENDEMIC *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* TRANSMISSION DYNAMICS USING SYNCHRONOUS GENOMIC SEQUENCING AND MODELING

Philipp Schwabl[1], Flavia Camponovo[1], Angela Early[2], Pablo Martinez de Salazar[1], Ruchit Panchal[2], Sabrina Gobran[1], Meg Shieh[1], Zack Johnson[1], Margaret Laws[1], Jean Alexandre[3], Helen Imhoff[4], Kashana James[4], Horace Cox[4], Caroline Buckee[1], Daniel 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]Pan American Health Organization, Washington, DC, United States, [4]Ministry of Health Guyana, Georgetown, Guyana

Symposium 91

LIVE STREAMING Emergence of Artemisinin Resistance in East Africa

Convention Center - Room 6C (6th Floor)

Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

This symposium will bring together researchers from Rwanda and Uganda and fellow experts to discuss recent findings that confirm the emergence of artemisinin resistance in East Africa and the implications of these findings for the rest of Africa. Artemisinin-based combination therapies (ACTs), including a short-acting artemisinin and longer-acting partner drug, are the standard-of-care to treat uncomplicated falciparum malaria. Artemisinin resistance, marked by delayed clearance of parasites after exposure to artemisinins clinically or *in vitro*, was first reported in 2008 in Cambodia, and was subsequently associated with mutations in the *P. falciparum* kelch 13 (K13) gene. Clinical and molecular data have since demonstrated the spread of resistance across the Greater Mekong sub-region, with multiple independent emergences of parasites with different K13 mutations, and persistence of a subset of these parasites as the dominant artemisinin-resistant lineages. Many K13 mutations have been identified, but a subset of 21 are considered validated or candidate mediators of resistance based on clinical and molecular findings. More recently, parasites also resistant to key ACT partner drugs have emerged in southeast Asia, with demonstration of high levels of resistance to some ACTs. However, the impact of artemisinin resistance has been limited by the relatively low incidence of malaria in southeast Asia. Of great concern is the potential for spread or emergence of artemisinin resistance in regions with higher malaria burdens, in particular sub-Saharan Africa, which has by far the greatest malaria morbidity and mortality in the world. Low prevalence of K13 mutations associated with artemisinin resistance has been seen sporadically in many regions, but convincing evidence for artemisinin resistance outside of southeast Asia has been limited. However, strong evidence for the emergence of artemisinin resistance in East Africa has now emerged. There is not yet clear evidence that the efficacy of ACTs in Africa has been seriously jeopardized, but there is concern that recent data foretell loss of reliable antimalarial efficacy of ACTs. This symposium will present data demonstrating the recent emergence in Rwanda and Uganda of a number of lineages of *P. falciparum* with K13 mutations previously associated in Asia with artemisinin resistance, and demonstration of clinical and *in vitro* artemisinin resistant phenotypes associated with the mutant African genotypes. It will also discuss the implications of these findings for malaria control in Africa, and efforts to better characterize and to blunt the emergence and spread of artemisinin resistance in Africa.

CHAIR

Naomi W. Lucchi
Centers for Disease Control and Prevention, Atlanta, GA, United States

Phillip J. Rosenthal
University of California, San Francisco, San Francisco, CA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
EVIDENCE FOR ARTEMISININ RESISTANCE IN RWANDA
Aline Uwimana
Malaria and Other Parasitic Diseases Division, Rwanda Biomedical Centre, Kiglai, Rwanda

8:25 a.m.
EVIDENCE FOR ARTEMISININ RESISTANCE IN GULU, NORTHERN UGANDA
Betty Balikagala
Department of Tropical Medicine and Parasitology, Juntendo University, Tokyo, Japan

8:40 a.m.
EVIDENCE FOR EMERGENCE OF MULTIPLE ARTEMISININ RESISTANT PLASMODIAL LINEAGES IN UGANDA
Victor Asua
Infectious Diseases Research Collaboration, Kampala, Uganda

8:55 a.m.
THE CURRENT STATUS AND IMPLICATIONS OF ANTIMALARIAL RESISTANCE ACROSS AFRICA
Phillip J. Rosenthal
University of California, San Francisco, San Francisco, CA, United States

9:10 a.m.
WHO STRATEGY TO CONTAIN AND PREVENT FURTHER EMERGENCE OR SPREAD OF ANTIMALARIAL RESISTANCE IN AFRICA
Pascal Ringwald
World Health Organization, Geneva 27, Switzerland

Symposium 92

Pandemic Surveillance and Pathogen Prediction: What's Next and What Will It Take to Keep Us Safe?

Convention Center - Room 6E (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Over the past few decades we have witnessed a succession of large outbreaks or pandemics – SARS, Ebola, Zika, COVID-19, monkeypox – that have gripped our planet and forced us to reassess the way we live, work, and think. What is happening? Are we destined to live through a never-ending succession of new threats? How do we get ahead of the game, foresee what might come next, and take steps to prevent it, or at least slow it down. In this symposium, a panel of international experts will discuss the challenges in conducting surveillance for emerging infections and our present global capacities for surveillance and prediction. We'll also ask each panelist to look into their crystal ball and give us their best prediction, or guess, of what comes next, and how we prepare for it.

CHAIR
Daniel G. Bausch
FIND, Geneva, Switzerland

PANELISTS
Jonna K. Mazet
University of California Davis, Davis, CA, United States

Sikhulile Moyo
Botswana-Harvard AIDS Institute Partnership, Gaborone, Botswana

Brooke Nichols
FIND, Geneva, Switzerland

Kevin Olival
EcoHealth Alliance, New York, NY, United States

Symposium 93

LIVE STREAMING Malaria Molecular Surveillance in Africa—Experience and Lessons Learned with a Focus on Establishing Genomics Capacity in Tanzania

Convention Center - Room 602/603/604 (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Molecular surveillance, which combines epidemiologically informed next-generation sequencing and related technologies including bioinformatics and modelling, is expected to support future initiatives to control, eliminate, and eradicate diseases such as malaria. Many developing countries with the highest burden of infectious diseases have limited capacity to generate and perform bioinformatics analysis of genomic data. However, COVID-19 pandemic catalyzed country and donor interest in molecular surveillance, and many low- and middle-income countries (LMICs) are now generating and analyzing genomic data locally and are using the findings for policy-setting and decision-making. Tanzania is one such country investing in developing molecular surveillance capacity with a focus on malaria. The country is currently building and strengthening local capacity for genomic data generation and analysis in order to address operational questions for malaria elimination and help guide responses and strategic planning in a timely manner. The data from malaria molecular surveillance (MMS) projects currently being done in Tanzania and other countries in Africa is expected to provide insight on critical aspects of malaria epidemiology. These include: i) population genetics of indigenous parasites circulating within countries or imported from their neighbors; ii) Insight into the emergence and spread of drug and insecticide resistance to guide commodity selection; and iii) trends in the spatiotemporal spread of histidine rich protein 2 (hrp2/3) gene deletions and their impacts on the performance of HRP2-based rapid diagnostic tests (RDTs). This symposium will provide updates on the ongoing efforts to develop and implement MMS capacity in Africa, highlighting the progress of one integrated project in Tanzania as an example, then hearing from multiple African countries who are also implementing similar programs in a panel discussion to hear about shared themes and challenges and how each group is overcoming these challenges. Representation will be from the NMCP perspective, from the research team perspective, and from collaborator perspectives around genomic surveillance related to transmission, drug resistance, and diagnostic tools. The presentations will be followed by a panel discussion with experts who are implementing and driving MMS projects in their respective countries. They will discuss and share

experience and lessons from the projects they are implementing. The panellists will highlight the promise and challenges of MMS in the context of malaria in Africa and discuss how these methods will support malaria elimination in the continent. The use cases, challenges, and opportunities for establishing sustainable MMS capacity in Africa will be discussed.

CHAIR

Deus S. Ishengoma
National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

Dyann Wirth
Harvard TH Chan School of Public Health, Boston, MA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
OVERVIEW, GOALS AND INTEGRATION OF MALARIA MOLECULAR SURVEILLANCE WITHIN THE TANZANIAN NMCP OPERATIONAL PLAN

Deus S. Ishengoma
National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

8:20 a.m.
UPDATES ON ANTIMALARIAL RESISTANCE IN TANZANIA

David J. Giesbrecht
University of Manitoba, Winnipeg, MB, Canada

8:30 a.m.
POPULATION GENOMICS OF TRANSMISSION AND USE CASES FOR MALARIA CONTROL AND ELIMINATION

Beatus M. Lyimo
National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

8:40 a.m.
ANTIGEN AND GENOTYPING DATA FOR SUPPORTING SURVEILLANCE OF HRP2/3 GENE DELETIONS

Eric Rogier
CDC Foundation, Atlanta, GA, United States

8:50 a.m.
PANELIST

Daouda Ndiaye
Université Cheikh Anta DIOP de Dakar (UCAD), Dakar, Senegal

9 a.m.
PANELISTS

Alfredo Mayor
Barcelona Institute for Global Health - Campus Clínic, Barcelona, Spain

Isabella Oyier
Kenya Medical Research Institute, Kilifi, Kenya

Jaishree Raman
Antimalarial Resistance Monitoring, National Institute for Communicable Diseases, Johannesburg, South Africa

Jennifer Gardy
Bill & Melinda Gates Foundation, Seattle, WA, United States

Scientific Session 94

Cestodes and Nematodes

Convention Center - Room 605/610 (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Ayman Elbadry
Cairo University, Cairo, Egypt

Makedonka Mitreva
Washington University School of Medicine, St. Louis, MO, United States

8 a.m. **1237**

DEVELOPMENT OF A DOSE-RESPONSE MODEL FOR PORCINE CYSTICERCOSIS

Daniel A. Andrade-Mogrovejo[1], Eloy Gonzales-Gustavson[2], Ana C. Ho-Palma[3], Joaquín M. Prada[4], Gabrielle Bonnet[5], Francesco Pizzitutti[5], Luis A. Gomez-Puerta[1], Gianfranco Arroyo[6], Seth E. O'Neal[5], Hector H. Garcia[6], Javier Guitian[7], Armando Gonzalez[1], Cysticercosis Working Group in Peru [8]
[1]Department of Animal and Public Health, School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [2]Tropical and Highlands Veterinary Research Institute, Universidad Nacional Mayor de San Marcos, Lima, Peru, [3]Department of Human Medicine, School of Human Medicine, Universidad Nacional del Centro del Perú, Huancayo, Peru, [4]Department of Veterinary Epidemiology and Public Health, Faculty of Health and Medical Sciences, University of Surrey, Guildford, United Kingdom, [5]School of Public Health, Oregon Health & Science University and Portland State University, Portland, OR, United States, [6]Center for Global Health Tumbes, Universidad Peruana Cayetano Heredia, San Martin de Porres, Peru, [7]Veterinary Epidemiology, Economics and Public Health Group, Department of Pathobiology and Population Sciences, The Royal Veterinary College, Hertfordshire, United Kingdom

8:15 a.m. **1238**

CLINICAL, RADIOLOGICAL AND SEROLOGIC CHARACTERISTICS OF PATIENTS WITH SUBARACHNOID NEUROCYSTICERCOSIS: A LARGE SERIES OF A NON-ENDEMIC REGION

Cesar Gabriel Berto Moreano, Alexander H. Levitt, Robert S. Sacchi, Christina M. Coyle
Jacobi Medical Center / Albert Einstein College of Medicine, Bronx, NY, United States

8:30 a.m. **1239**

MASS DRUG ADMINISTRATION IS COST-EFFECTIVE COMPARED TO SCHOOL-BASED PREVENTIVE CHEMOTHERAPY FOR HOOKWORM CONTROL IN DAK LAK PROVINCE, VIETNAM

John Paul Caesar Robles delos Trinos[1], Caroline Watts[1], Dinh Ng-Nguyen[2], Kate Halton[3], Virginia Wiseman[1], Susana Vaz Nery[1]
[1]The Kirby Institute UNSW Sydney, Kensington (Sydney), NSW, Australia, [2]Tay Nguyen University, Thanh pho, Buon Ma Thuot, Đak Lak, Viet Nam, [3]Australian Centre for Health Services Innovation, Queensland University of Technology, Brisbane, QLD, Australia

8:45 a.m.

1240

COSTS OF COMMUNITY-WIDE MASS DRUG ADMINISTRATION AND SCHOOL-BASED DEWORMING FOR SOIL-TRANSMITTED HELMINTHS: EVIDENCE FROM BENIN, INDIA, AND MALAWI

Chloe Morozoff[1], Euripide Avokpaho[2], Saravanakumar Puthupalayam Kaliappan[3], James Simwanza[4], Samuel Paul Gideon[3], Wongani Lungu[4], Parfait Houngbegnon[2], Katya Galactionova[5], Maitreyi Sahu[1], Khumbo Kalua[4], Adrian J F Luty[6], Moudachirou Ibikounle[2], Robin Bailey[7], Rachel Pullan[7], Sitara Swarna Rao Ajjampur[3], Judd L. Walson[1], Arianna Rubin Means[1]

[1]University of Washington, Seattle, WA, United States, [2]Institut de Recherche Clinique du Benin, Abomey-Calavi, Benin, [3]Christian Medical College, Vellore, India, [4]Blantyre Institute for Community Outreach, Blantyre, Malawi, [5]University of Basel, Basel, Switzerland, [6]Université de Paris, MERIT, IRD, Paris, France, [7]London School of Hygiene and Tropical Medicine, London, United Kingdom

9 a.m.

1241

AN INTEGRATED RESEARCH APPROACH FOR SOIL-TRANSMITTED HELMINTH CONTROL

Raffi V. Aroian[1], Mostafa Elfawal[1], Emily Goetz[1], Hanchen Li[1], Jeffrey Chicca[1], Nicholas Cazeault[1], Kelly Flanagan[1], You-Mie Kim[1], Esther Darfour[1], Florentina Rus[1], Ernesto Soto[1], Carli Garceau[1], Erich Schwarz[2], Jane Homan[3], Wenbin Tuo[4], James Lok[5], Gary Ostroff[1]

[1]UMASS Chan Medical School, Worcester, MA, United States, [2]Cornell University, Ithaca, NY, United States, [3]Iogenetics, Sun Prairie, WI, United States, [4]USDA/ARS, Beltsville, MD, United States, [5]University of Pennsylvania, Philadelphia, PA, United States

9:15 a.m.

1242

MONITORING PATTERNS OF SYSTEMATIC NON-TREATMENT IN A MASS DRUG ADMINISTRATION PROGRAM THROUGH BIOMETRICALLY VERIFIED POPULATIONS: THE CONTROL OF SOIL TRANSMITTED HELMINTH AND SCHISTOSOME INFECTIONS IN SOUTHERN ETHIOPIA BY THE GESHIYARO PROJECT

Rosie Grace Maddren[1], Santiago Rayment Gomez[1], James Truscott[1], Toby Landeryou[1], Suprabhath Kalahasti[1], Ewnetu Firdawek[2], Melkie Chernet[2], Ufaysa Anjulo[3], Birhan Mengitsu[1], Zelalem Mehari[4], Mihertab Salasibew[5], Roy Anderson[1]

[1]Imperial College London, London, United Kingdom, [2]Ethiopian Public Health Institute, Addis Ababa, Ethiopia, [3]Ethiopian Federal Ministry of Health, Addis Ababa, Ethiopia, [4]Children's Investment Fund Foundation, Addis Ababa, Ethiopia, [5]Children's Investment Fund Foundation, London, United Kingdom

9:30 a.m.

1243

CHROMOSOME LEVEL ASSEMBLY OF THE STRONGYLOIDES STERCORALIS GENOME IMPROVES CHARACTERIZATION OF NON-CODING DNA

William Sears[1], Sasisekhar Bennuru[1], James B. Lok[2], Xinshe Li[2], Tom Hill[3], Justin Lack[3], Thomas B. Nutman[1]

[1]Laboratory of Parasitic Disease, NIAID, National Institutes of Health, Bethesda, MD, United States, [2]University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA, United States, [3]NIAID Collaborative Bioinformatics Resource, Bethesda, MD, United States

Symposium 95

Current State of Hepatitis E: Global Epidemiology, Evidence, and Vaccine Policy

Convention Center - Room 606/607 (6th Floor)

Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Hepatitis E Virus (HEV) is a leading cause of acute viral hepatitis globally, with alarming morbidity and mortality in pregnant women. Since its discovery in the 1980s, this virus has largely been neglected by the scientific community despite estimates of over 20 million infections and at least 70,000 deaths globally each year. However, because this pathogen is so neglected, the burden of disease and deaths are likely vastly underestimated due to lack of surveillance, limited access to diagnostic tests, and poor reporting in areas where the burden of HEV is the greatest. In 2010, a recombinant, subunit HEV vaccine, HEV239, reported 100.0% efficacy against disease after 1 year and 93% efficacy after 54 months. This vaccine has now been licensed for use in China and Pakistan. Despite the safety and efficacy, this vaccine is not yet prequalified by the WHO nor it is widely used. In 2015, the WHO convened a Strategic Advisory Group of Experts (SAGE) to review the data surrounding the use of HEV239. While the SAGE committee considered the vaccine to be very safe and effective, they highlighted important evidence gaps that have precluded recommendations for routine use. Rather, the use of the vaccine should be considered based on local epidemiology and the presence of high-risk situations. One of the evidence gaps the SAGE committee pointed to was the lack of clinical trials of HEV239 in pregnant women. Since 2015, a large trial in women of childbearing age has been started in Bangladesh but evidence is still needed for use during pregnancy. The SAGE committee also recommended that vaccine be evaluated in an outbreak setting. However, despite several large-scale outbreaks in refugee camps in Africa since 2015, the vaccine has yet to be deployed in these settings. This symposium will discuss the current state of the WHO recommendations regarding the use of the HEV vaccine. The session will also discuss the current global epidemiology of HEV, highlighting the important evidence gaps and limitations of the current burden of disease estimates. The speakers will also describe the ongoing efforts to create a larger evidence base to increase the use of the HEV239 vaccine, and therefore prevent the substantial morbidity and mortality associated with this neglected pathogen.

CHAIR

Brittany Kmush
Syracuse University, Syracuse, NY, United States

Julia Lynch
International Vaccine Institute, Seoul, Republic of Korea

8 a.m.
INTRODUCTION

8:10 a.m.
WHO POLICY ON HEPATITIS E VACCINATION

Melanie Marti
World Health Organization, Geneva, Switzerland

8:25 a.m.

UPDATE ON THE GLOBAL EPIDEMIOLOGY OF HEV AND GAPS IN OUR KNOWLEDGE

Brittany Kmush
Syracuse University, Syracuse, NY, United States

8:40 a.m.

HEPATITIS E OUTBREAKS IN HUMANITARIAN SETTINGS

Iza Ciglenecki
Médecins Sans Frontières, Geneva, Switzerland

8:55 a.m.

EPIDEMIOLOGY OF HEV IN BANGLADESH AND RESULTS FROM THE VACCINE TRIAL

K. Zaman
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

9:10 a.m.

A TRIAL TO EVALUATE THE SAFETY AND IMMUNOGENICITY OF HEV239 IN PREGNANT WOMEN

Fyezah Jehan
The Aga Khan University, Karachi, Pakistan

Scientific Session 96

Mosquitoes - Biochemistry and Molecular Biology

Convention Center - Room 608/609 (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Thiago Luiz Alves e Silva
NIH, Rockville, MD, United States

Maria L. Simoes
London School of Hygiene & Tropical Medicine, London, United Kingdom

8 a.m. 1244

NOVEL SALIVARY ANTI-HEMOSTATIC ACTIVITIES FROM *ANOPHELES GAMBIAE* FACILITATE BLOOD FEEDING

Eric Calvo, Leticia Smith, Emma Duge
NIAD-NIH, Rockville, MD, United States

8:15 a.m. 1245

CRISPR-CAS9-MEDIATED GENE KNOCKOUT OF CTL4 REVEALS TEP1-INDEPENDENT MELANIZATION OF HUMAN MALARIA PARASITES

Maria L. Simões[1], Yuemei Dong[2], Godfree Mlambo[2], George Dimopoulos[2]
[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]Johns Hopkins University, Baltimore, MD, United States

8:30 a.m. 1246

THE HUMORAL PROTEOME OF *ANOPHELES GAMBIAE* REVEALS NEW HOST-PARASITE-VECTOR INTERACTIONS SHAPING MALARIA TRANSMISSION

Thiago Luiz Alves Silva, Francis Saraiva, Janet Olivas, Tales Pascini, Joel Vega-Rodriguez
National Institutes of Health, Rockville, MD, United States

8:45 a.m. 1247

EXPLORING WOLBACHIA-DERIVED CIF GENES AS POTENTIAL VECTOR CONTROL TOOLS FOR MALARIA

Kelsey L. Adams[1], Daniel G. Abernathy[1], Bailey C. Willett[1], Emily K. Selland[2], Elodie Ekoka[1], Flaminia Catteruccia[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]University of Notre Dame, South Bend, IN, United States

9 a.m. 1248

DE NOVO FATTY ACID SYNTHESIS MEDIATES ANOPHELES REPRODUCTION AND *PLASMODIUM* TRANSMISSION

Maurice A. Itoe[1], Kristine Werling[2], Robert Shaw[1], Tasneem Rinvee[1], Shriya Anandjee[1], Naresh Singh[1], Amy Deik[3], Clary Clish[3], Flaminia Catteruccia[1]
[1]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [2]Pennsylvania State University, College Park, PA, United States, [3]Broad Institute of Harvard and MIT, Cambridge, MA, United States

(ACMCIP Abstract)

9:15 a.m. 1249

PLASMODIUM A-TUBULIN-1 IS AN ANOPHELES FREP1 LIGAND AND PROMOTES PARASITE INFECTION OF THE MOSQUITO

Jun Li
Florida International University, Miami, FL, United States

(ACMCIP Abstract)

9:30 a.m. 1250

EXPOSURE OF COMPOUNDS THAT BLOCK MALARIA TRANSMISSION TO MOSQUITOES BY SPRAYING INHIBITS *PLASMODIUM FALCIPARUM* INFECTION

Guodong Niu, Jun Li
Florida International University, Miami, FL, United States

Symposium 97

Integration of Female Genital Schistosomiasis into Health Systems and Reproductive Healthcare: Lessons from Operational Research

Convention Center - Room 611/612 (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

For millions of women living on the African continent, two of the greatest health concerns – schistosomiasis and HIV – overlap. Research suggests that female genital schistosomiasis (FGS) infection can increase a woman's likelihood of becoming infected with HIV, as well as the speed of viral progression. FGS has deleterious effects on the lives of women and girls, who suffer from pain and stigma as a result of misdiagnosis and incorrect treatment. Case studies on integration of FGS with existing health services remain scarce and clinical diagnosis is still unavailable for many affected women. With the World Health Organization's recently published policy brief on expanding praziquantel treatment to women of reproductive age, it is essential that case studies highlighting successful integration of services are shared with the wider community. Owing to a clear need for a unified research agenda, COR-NTD convened a technical meeting in September 2019 in partnership with the Global Schistosomiasis

Alliance, the SCI Foundation, Uniting to Combat Neglected Tropical Disease and COUNTDOWN; with financial and logistical support from UK aid, USAID, and RSTMH. Breakout sessions at the meeting aimed at refining the research agenda to define and measure FGS, prevent and treat the disease, identify linkages between HIV and NTD programs, and engage communities to overcome the challenge of stigma. As a result of that meeting, the Neglected Tropical Diseases Support Center (NTD-SC), with support from UK aid from the British government, announced a call for proposals on operational research for FGS. The symposium explores the results of five of the eight studies funded through this call. First, the session will share results from studies in Zambia and Madagascar that examine the development and testing of diagnostic algorithms for clinicians and outline barriers to integrated care. A pilot study from Cote d'Ivoire shares a successful example of integrating preventive treatment with praziquantel into the National Health System. The symposium will also include a discussion of a study that combines schistosomiasis precision mapping with the creation of integrated, mobile reproductive health services to reach women and girls who have limited access in Cameroon. Finally, the session will share the impact of an integrated community-based teaching platform for HIV and FGS in improving access to care in multi-country study (Zambia, Malawi, Tanzania). The presentations and ensuing discussion will allow for learning to be shared across multiple platforms and contexts and will also serve as a springboard to discuss other FGS studies which were not included due to time constraints.

CHAIR

Elizabeth F. Long
Neglected Tropical Diseases Support Center, Task Force for Global Health, Decatur, GA, United States

Louis-Albert Tchuem Tchuenté
University of Yaoundé I, Yaoundé, Cameroon

8 a.m.
INTRODUCTION

8:10 a.m.
IMPROVING FEMALE GENITAL SCHISTOSOMIASIS DIAGNOSIS WITHIN COMPREHENSIVE REPRODUCTIVE HEALTH SERVICES IN ZAMBIA

Kristin Wall
Emory University, Atlanta, GA, United States

8:25 a.m.
CONCERTED ACTION ON FGS AND GYNECOLOGICAL DISEASES IN CAMEROON: INTEGRATING PRECISION MAPPING OF UROGENITAL SCHISTOSOMIASIS WITH RAPID ASSESSMENT OF FGS FOR BETTER COMMUNITY MANAGEMENT OF GYNECOLOGICAL DISEASES

Louis-Albert Tchuem Tchuenté
University of Yaoundé I, Yaoundé, Cameroon

8:40 a.m.
INTEGRATION OF FEMALE GENITAL SCHISTOSOMIASIS PREVENTION SERVICES WITHIN THE NATIONAL HEALTH SYSTEM: A PILOT STUDY IN CÔTE D'IVOIRE

Ashley Preston
SCI Foundation (in collaboration with the Programme National de Lutte contre les Maladies Tropicales Négligées à Chimiothérapie Préventive, Ministry of Health of Côte d'Ivoire), London, United Kingdom

8:55 a.m.
FEMALE GENITAL SCHISTOSOMIASIS IN RURAL MADAGASCAR: IMPROVING COMMUNITY UNDERSTANDING AND PROMOTING INTEGRATION INTO PRIMARY HEALTH CARE SERVICES- FIRM-UP

Daniela Fusco
Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

9:10 a.m.
BRINGING DOWN HURDLES FOR FEMALE GENITAL SCHISTOSOMIASIS ACCESS TO CARE: A MULTI-COUNTRY SOCIO-STRUCTURAL INTEGRATED APPROACH TO DEVELOPING A COMMUNITY-BASED TEACHING PLATFORM

Humphrey Mazigo
Catholic University of Health and Allied Sciences, Bugando, Mwanza, United Republic of Tanzania

Symposium 98

Implementing Seasonal Malaria Chemoprevention in New Geographies outside the Sahel

Convention Center - Room 613/614 (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

In sub-Saharan Africa, almost 70% of malaria deaths in 2018 occurred in children U5. The majority of childhood malarial disease and deaths occur during and immediately after the rainy season. Seasonal malaria chemoprevention (SMC) is a highly effective community-based intervention to prevent malaria infections in areas where the malaria burden is high and transmission occurs mainly during the rainy season. It involves administering monthly courses of sulfadoxine-pyrimethamine (SP) and amodiaquine (AQ) during this peak transmission period to those most at risk: children 3-59 months. SMC has been demonstrated to be a highly effective intervention, which can prevent up to 75% of malaria cases in eligible children. It has also been shown that the intervention can be delivered safely at scale achieving high coverage. To date, SMC has only been adopted and scaled up in Sahelian countries of west and central Africa. However, it has been suggested that SP may retain its chemoprevention efficacy even in areas where resistance is high. In the past few years a number of SMC implementers, in partnership with national malaria programs have conducted studies to better understand the effectiveness of SMC in these new geographies. At the same time, SMC encompasses a range of activities not limited to SPAQ administration, and can act as a vector for health messages which may be embedded over multiple years of program implementation. Speakers will present findings from four countries highlighting recent innovations in

extending SMC to these new geographies. Important findings and lessons learned will be presented on the effectiveness of implementing SMC in Mozambique and Uganda, the feasibility and acceptability of introducing SMC Côte d'Ivoire and how caregivers' malaria knowledge, practices and engagement with SMC are influenced by the length of time it has been implemented using the example of Nigeria. Finally, a moderated discussion on the key similarities and differences between the four studies will making recommendations for further extending SMC to new geographies.

CHAIR

Kevin Baker
Malaria Consortium, London, United Kingdom

Jean Louis Ndiaye
Thies University, Thies, Senegal

8 a.m.
INTRODUCTION

8:10 a.m.
RESULTS FROM A HYBRID EFFECTIVENESS-IMPLEMENTATION STUDY TO ASSESS THE EFFECTIVENESS OF IMPLEMENTING SEASONAL MALARIA CHEMOPREVENTION IN NAMPULA PROVINCE, MOZAMBIQUE

Baltazar Candrinho
Mozambique National Malaria Control Program, Maputo, Mozambique

8:30 a.m.
RESULTS FROM A COHORT STUDY TO ASSESS THE CHEMOPREVENTION EFFICACY OF IMPLEMENTING SEASONAL MALARIA CHEMOPREVENTION IN KARAMOJA REGION, UGANDA

Jane Nabakooza
National Malaria Control Division, Ministry of Health, Kampala, Uganda

8:50 a.m.
MODEL-BASED EVALUATION OF THE POTENTIAL EPIDEMIOLOGICAL IMPACT OF INTRODUCING SMC IN NORTHERN CÔTE D'IVOIRE

Christian Selinger
Swiss Tropical and Public Health Institute, Basel, Switzerland

9:10 a.m.
MALARIA KNOWLEDGE, PRACTICES AND ENGAGEMENT WITH SMC DELIVERY AMONG CAREGIVERS IN AREAS WITH NEW AND ESTABLISHED SMC IMPLEMENTATION: AN EXAMPLE FROM NIGERIA

Adaeze Aidenagbon
Malaria Consortium, Abuja, Nigeria

Symposium 99

American Committee on Arthropod-Borne and Zoonotic Viruses (ACAV) Symposium II: Zoonotic and Arboviruses - Model Systems for One Health Research and Response

Convention Center - Room 615/616/617 (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

One Health is a framework spanning the fields of human, animal, and environmental health that encourages a systems thinking approach. Arbovirology and likewise the study of zoonotic virus systems has necessarily worked in this framework even before it was formalized and the history and approaches taken could serve as models for continuing to shape research in the paradigm of One Health. These presenters will describe how arbovirology historically, currently, and prospectively will lead One Health by example with the main goal of introducing a systems thinking approach to researchers at all stages of career.

CHAIR

Rebecca C. Christofferson
Louisiana State University, Baton Rouge, LA, United States

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
HISTORICAL PERSPECTIVE OF ARBOVIROLOGY AS A ONE HEALTH MODEL SYSTEM

Laura D. Kramer
Wadsworth Center, Slingerlands, NY, United States

8:35 a.m.
RISKY BUSINESS: INVESTIGATING THE POTENTIAL OF RIFT VALLEY FEVER VIRUS URBAN INTRODUCTION FROM ANIMAL-SOURCED FOODS IN KENYA

Keli Gerken
Stanford University, Stanford, CA, United States

9 a.m.
HISTORY REPEATING: A ONE HEALTH INVESTIGATION OF EMERGING AND RESURGING ZOONOTIC ARBOVIRUSES IN THE BRAZILIAN AMAZON

Adam Hendy
University of Texas Medical Branch, Galveston, TX, United States

9:25 a.m.
PATHOGEN GENOMICS IN THE MANAGEMENT OF EMERGING AND RE-EMERGING DISEASES IN DEMOCRATIC REPUBLIC OF CONGO

Placide Mbala
Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo

Symposium 100

Building Research Capacity in Low- and Middle-Income Countries and Pandemic Preparedness: Lessons Learned and Future Directions

Convention Center - Room 618/619/620 (6th Floor)
Wednesday, November 2, 8 a.m. - 9:45 a.m.

In this symposium, leaders in infectious disease research and research capacity building will share their experiences in establishing research capacity in low- and middle-income countries, how that capacity has been deployed during the SARS-CoV-2 pandemic, and priorities for future capacity strengthening to prepare for future pandemics, other health emergencies, and other national and global health priorities. The moderators will briefly set the stage with global perspectives on health research capacity strengthening as an element of pandemic preparedness. Then each speaker will give their perspective based upon their research area of interest, research capacity at their institution, and the epidemiological, public health, social, economic, and other considerations in their country and region. The speakers represent very diverse research areas including neglected tropical diseases, viral diseases, and genomic medicine and they represent very diverse settings from Asia, Africa, Latin American and the Caribbean. They will discuss the international and local resources and support that have been mobilized to build research capacity in their setting and the facilitators and barriers that were faced. Required research capacities include laboratory testing and experimentation, data management and statistical analysis, clinical trial and community research site development, behavioral and social science, community engagement, ethical review boards, and regulatory systems. The most important is human capacity. Speakers will describe strategies for developing well-trained individuals with protected time to conduct research and with strong mentorship and networking with international and local scientists. Each speaker will discuss how existing research capacity was engaged to conduct COVID-19 research in their setting including the successes as well as the gaps and lessons learned. Finally, each speaker will talk about future directions for building research capacity in low- and middle-income countries, including ongoing national health priorities and research interests together with preparedness for future pandemics and other health emergencies. The final speaker will describe how the Omicron variant of SARS-CoV-2 was first identified at his laboratory in Botswana and how that information was disseminated and acted upon. There will be a panel discussion among the speakers followed by time for questions and sharing perspectives from the audience.

CHAIR

Peter H. Kilmarx
Fogarty International Center, NIH, Bethesda, MD, United States

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Arlington, VA, United States

8 a.m.
INTRODUCTION

8:10 a.m.
BUILDING CAPACITY FOR INFECTIOUS DISEASE GENOMIC RESEARCH IN NIGERIA AND RESPONDING TO COVID-19
Christian Happi
Redeemer's University, Ede, Nigeria

8:20 a.m.
BUILDING CAPACITY FOR INFECTIOUS DISEASE RESEARCH IN PAKISTAN AND RESPONDING TO COVID-19
Erum Khan
Aga Khan University, Karachi, Pakistan

8:30 a.m.
BUILDING CAPACITY FOR INFECTIOUS DISEASE RESEARCH IN THE CARIBBEAN AND RESPONDING TO COVID-19
John F. Lindo
The Univeresity of the West Indies, Kingston 6, Jamaica

8:40 a.m.
BUILDING CAPACITY FOR INFECTIOUS DISEASE RESEARCH IN COLOMBIA AND RESPONDING TO COVID-19
Nancy C. Gore Saravia
Centro Internacional de Entrenamiento e Investigaciones Medicas, Cali, Colombia

8:50 a.m.
BUILDING CAPACITY FOR INFECTIOUS DISEASE RESEARCH IN BOTSWANA; THE FIRST LAB TO IDENTIFY THE OMICRON VARIANT OF SARS-COV-2
Sikhulile Moyo
Botswana–Harvard AIDS Institute Partnership, Gaborone, Botswana

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Wednesday, November 2, 9:30 a.m. - 10:30 a.m. U.S. Pacific Time Zone

Coffee Break

Convention Center - Hall 4BC (4th Floor)
Wednesday, November 2, 9:45 a.m. - 10:15 a.m. U.S. Pacific Time Zone

Poster Session C Set-Up

Convention Center - Room 4A (4th Floor)
Wednesday, November 2, 9:45 a.m. - 10:15 a.m. U.S. Pacific Time Zone

Poster Session C Viewing

Convention Center - Room 4A (4th Floor)
Wednesday, November 2, 10:15 a.m. – 11 a.m. U.S. Pacific Time Zone

Plenary Session 101

Plenary Session IV: President's Address

Convention Center - Room 6AB (6th Floor)
Wednesday, November 2, 10:15 a.m. - 11 a.m. U.S. Pacific Time Zone

ASTMH offers unparalleled expertise in tropical medicine and global health that undoubtedly makes for a healthier planet. Yet, despite our many successes, between the COVID-19 pandemic, climate change, ever increasing political polarization and widening gaps between rich and poor, we find ourselves in a veritable planetary existential crisis. In his Presidential Address, Daniel Bausch will make the case for recasting and rejuvenating human rights as the foundation for ASTMH's work, and the key to its success. Dr. Daniel Bausch, MD, MPH&TM, FASTMH, is the Senior Director of Emerging Threats and Global Health Security at FIND, the global alliance for diagnostics, in Geneva, Switzerland, leading FIND`s efforts on pandemic preparedness and response and antimicrobial resistance. He is trained in internal medicine, infectious diseases, tropical medicine, and public health.

10:15 a.m.
INTRODUCTION
Lina Moses
Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

10:30 a.m.
PRESIDENT'S ADDRESS: ASTMH - A MEANS TO WHAT END?

Daniel G. Bausch, MD, MPH&TM, FASTMH
Senior Director, Emerging Threats and Global Health Security
FIND
Geneva, Switzerland

Dr. Bausch specializes in the research and control of emerging tropical pathogens, with over 25 years experience in sub-Saharan Africa, Latin America, and Asia combating viruses such as Ebola, Lassa, hantavirus, and SARS coronaviruses. Previously, he served as Director of the United Kingdom`s Public Health Rapid Support team (2017-21), a joint effort by Public Health England and the London School of Hygiene & Tropical Medicine to respond and conduct research to prevent and control outbreaks of dangerous infectious diseases around the world. He has also held posts at the World Health Organisation in Geneva, Switzerland; U.S. Naval Medical Research Unit No. 6 in Lima, Peru; Tulane School of Public Health and Tropical Medicine in New Orleans, USA; and the U.S. Centers for Disease Control and Prevention in Atlanta, USA. In addition to his role at FIND, Dr. Bausch holds an appointment as a Professor of Tropical Medicine at the London School of Hygiene and Tropical Medicine. Dr. Bausch is a Fellow of the American Society of Tropical Medicine and Hygiene and presently serves as the Society's President. He is a Member of the World Health Organization International Health Regulations Emergency Committee. Dr. Bausch places a strong emphasis on capacity development in all his projects and has a keen interest in the role of the scientist in promoting health and human rights. He is fluent in English, French and Spanish.

Exhibit Hall Open

Convention Center - Hall 4BC (4th Floor)
Wednesday, November 2, 11 a.m. - 12:45 p.m. U.S. Pacific Time Zone

Poster Session 102

Poster Session C Presentations

Convention Center - Hall 4A (4th Floor)
Wednesday, November 2, 11 a.m. - 12:45 p.m.

Poster Session C Directory

Global Health - Information/Communication/Technologies Solutions in Global Health including Modeling: 1251-1263

Global Health – Other: 1264-1273

Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s): 1274-1293

Mosquitoes - Biochemistry and Molecular Biology: 1294-1300

Mosquitoes - Insecticide Resistance and Control: 1301-1321

Mosquitoes - Molecular Genetics: 1322-1337

Mosquitoes - Vector Biology-Epidemiology: 1338-1348

Flaviviridae – Dengue: 1349-1370

Flaviviridae – Other: 1371-1381

Viruses – Other: 1382-1420

Malaria - Antimalarial Resistance and Chemotherapy: 1421-1437

Malaria - Biology and Pathogenesis: 1438-1448

Malaria - Diagnosis - Challenges and Innovations: 1449-1464

Malaria - Drug Development and Clinical Trials: 1465-1475

Malaria – Elimination: 1476-1483

Malaria - Epidemiology, Surveillance and Data Utilization: 1484-1514

Malaria - Genomics and Evolution of Parasite Populations: 1515-1528

Malaria - Immune Responses to Infection and Disease: 1529-1541

Malaria – Other: 1542-1562

Malaria – Prevention: 1563-1578

Malaria - Vaccine Development and Human Trials: 1579-1594

Malaria - Vectors and Community-Based Responses: 1595-1604

Bacteriology - Enteric Infections: 1605-1617

Bacteriology - Systemic Infections: 1618-1628

Bacteriology – Trachoma: 1629-1639

Clinical Tropical Medicine: 1640-1655

Helminths - Nematodes - Filariasis (Cellular and Molecular Biology): 1656

Helminths - Nematodes - Filariasis (Clinical): 1657-1662

Helminths - Nematodes - Filariasis (Immunology): 1664-1666

Helminths - Nematodes - Filariasis (Other): 1667-1676

Pneumonia, Respiratory Infections and Tuberculosis: 1677-1694

Schistosomiasis and Other Trematodes – Epidemiology and Control: 1695-1705

Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology: 1706-1718

Global Health - Information/ Communication/Technologies Solutions in Global Health including Modeling

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LEVERAGING DIGITAL HUMAN RESOURCE INFORMATION SYSTEMS AND GEOSPATIAL ANALYSIS TO PROMOTE SUSTAINABLE CHW CONTRIBUTIONS TO COMMUNITY CASE MANAGEMENT IN BURKINA FASO

Holly Nicole Kandel[1], Lucien Banze Wa Nsensele[2], Drabo François[3], Toguri Gauthier[4], Celestin Danwang[2], Harriet Napier[5], Eric Besong[2], Leyla Mutiu[6], Inessa Ba[2]
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1252

REVIEW OF THE USE OF BEHAVIORAL DATA IN PHYLOGEOGRAPHIC ANALYSES OF INFECTIOUS DISEASES

Oscar Cortés Azuero[1], Gabriel Ribeiro dos Santos[1], Megan O'Driscoll[1], Noémie Lefrancq[1], Sophie Belman[1], Angkana T. Huang[1], Lin Wang[1], Rachel Sippy[2], Henrik Salje[1]
[1]University of Cambridge, Cambridge, United Kingdom, [2]University of St Andrews, St Andrews, United Kingdom

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PHAROS: A NEXT-GENERATION MOBILE HEALTH SURVEYING TOOL

Carson P. Moore[1], Maurice R. Odiere[2], Govert J. van Dam[3], David W. Wright[1], Mengqing Chen[1], Qiushi Yan[1], Thomas F. Scherr[1]
[1]Vanderbilt University, Nashville, TN, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya, [3]Leiden University Medical Center (LUMC), Leiden, Netherlands

1254

ACCEPTABILITY, FEASIBILITY, AND ADOPTION OF A FAMILY MUAC MHEALTH INTERVENTION FOR EARLY DETECTION OF CHILDHOOD MALNUTRITION IN KENYA

Esther M. Choo[1], Mercy Awuor[2], Catherine Achieng[3], Arianna Rubin Means[1], Kirkby D. Tickell[1], Mame M. Diakhate[1], Jeanne L. Goodman[1], Keshet Ronan[1], Maureen Anyango[3], Mary Masheti[3], Benson Singa[3], Christine J. McGrath[1]
[1]University of Washington, Seattle, WA, United States, [2]Independent consultant, Nairobi, Kenya, [3]Kenya Medical Research Institute, Nairobi, Kenya

1255

GRAPHICAL USER INTERFACE FOR A DASHBOARD TOOL WITH SIMULTANEOUS VISUALIZATION OF ENVIRONMENTAL SURVEILLANCE AND CLINICAL CASE DATA

Erin Wettstone[1], Lauren Hughlett[2], Claire Reagan[2], Md. Ohedul Islam[3], Stephanie A. Brennhofer[1], Elizabeth T. Rogawski McQuade[4], Tahmina Shirin[5], Mahbubur Rahman[5], Rashidul Haque[3], Isobel M. Blake[6], Mami Taniuchi[7]
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1256

PROMOTING ACCESS TO DIAGNOSTICS FOR NEGLECTED AND EPIDEMIC DISEASES THROUGH SUSTAINABLE MANUFACTURING IN AFRICA

Cheikh Tidiane Diagne
Institut Pasteur de Dakar, Dakar, Senegal

1257

IMPROVING AND REDESIGNING CLINEPIDB TO ENABLE EXPLORATORY DATA ANALYSIS OF GLOBAL HEALTH STUDIES

Sheena Tomko[1], Cristina Aurrecoechea[2], John Brestelli[1], Brian P. Brunk[1], Danielle Callan[1], Dave Falke[2], Steve Fischer[1], Danica Helb[1], Jay Humphrey[2], John Judkins[1], Sarah Kelly[3], Jessica C. Kissinger[2], Nupur Kittur[2], Bob MacCallum[3], David Roos[1], Steph W. Schulman[1], Weilu Song[1], Jie Zheng[1]
[1]University of Pennsylvania, Philadelphia, PA, United States, [2]University of Georgia, Athens, GA, United States, [3]Imperial College London, London, United Kingdom

1258

REPEATABILITY OF PULSE OXIMETRY MEASUREMENTS IN CHILDREN

Ahmad Asdo[1], Alishah Mawji[1], Collins Agaba[2], Clare Komugisha[2], Stefanie Novakowski[1], Matthew Wiens[1], Samuel Akech[3], Abner Tagoola[4], Niranjan Kissoon[1], Mark Ansermino[1], Dustin Dunsmuir[1]
[1]University of British Columbia, Vancouver, BC, Canada, [2]WALIMU, Kampala, Uganda, [3]Kenya Medical Research Institute, Nairobi, Kenya, [4]Jinja Regional Referral Hospital, Jinja, Uganda

1259

APPLYING EFFECTIVE APPROACHES CONTRIBUTING TO THE REDUCTION OF WASTAGE AND BETTER AVAILABILITY OF ESSENTIAL MEDICINES IN ETHIOPIA

Ayalew Adinew[1], Elias Geremew[1], Birhanu D. Workneh[2], Berhanu Tadesse[3], Mahdi Abdella[3], Edessa Diriba[3], Regasa Bayisa[3], Fikreslassie Alemu[1], Edmealem Ejigu[1], Tesfaye Seifu[1], Natnael Solomon[3]
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1260

COVID-19 IN SOUTH AFRICA: ADAPTIVE MODELLING FOR A NOVEL VIRUS

Sheetal Silal[1], Juliet Pulliam[2], Gesine Meyer-Rath[3], Lise Jamieson[3], Harry Moultrie[4]
[1]Modelling and Simulation Hub, Africa (MASHA), University of Cape Town, Cape Town, South Africa, [2]South African DSI-NRF Centre of Excellence in Epidemiological Modelling and Analysis (SACEMA), Stellenbosch University, Stellenbosch, South Africa, [3]Health Economics and Epidemiology Research Office, University of Witwatersrand, Johannesburg, South Africa, [4]National Institute for Communicable Diseases, Johannesburg, South Africa

1261

A WEB-BASED HISTOLOGY QUALITY ASSURANCE PLATFORM AS A REMOTE TRAINING TOOL FOR GLOBAL USE IN LOW RESOURCE SETTINGS.

David M. Plotner, Amir Karshenas, Rebecca L. Watkins, Norman J. Goco, Lindsay M. Parlberg
RTI International, Research Triangle Park, NC, United States

1262

STRENGTHENING LAST MILE PANDEMIC RESPONSE USING ARTIFICIAL INTELLIGENCE AIDED CHEST X-RAY BASED COVID-19 SCREENING AND TRIAGE IN RURAL AND SEMI-URBAN INDIA

Justy Antony Chiramal[1], Saniya Pawar[2], Neema Jayadas[2], Anumeha Srivastava[2], Divya Iyer[2], Reshma Suresh[2], Manoj Tadepalli[2], Ashita Singh[3], Jemin Webster[4], Roshine Koshy[5], Vinod Oomen[6], Asha Thomas[7], Clement Momin[8], Sandeep Patonda[9], Jalaz Rahmi[10]
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1263

OPEN SOURCE APPROACHES TO PEDIATRIC GLOBAL HEALTH TECHNOLOGY DEVELOPMENT AND IMPLEMENTATION

Ryan Brewster[1], Andrew Wu[1], Ryan Carroll[2]
[1]Boston Children's Hospital, Boston, MA, United States, [2]Massachusetts General Hospital, Boston, MA, United States

Global Health – Other

1264

ALL CREATURES DEADLY AND DEBILITATING: BRITISH MISSIONARY ENCOUNTERS IN AFRICA, 1850-1914

David Adams[1], Michael Kent[2]
[1]National University of Ireland-Galway, Galway, Ireland, [2]Point University-Savannah, Savannah, GA, United States

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"INHERIT THE KINGDOM PREPARED FOR YOU": MORTALITY AMONG 19TH-CENTURY BRITISH EVANGELICAL MISSIONARIES IN SUB-SAHARAN AFRICA

David Adams[1], Michael Kent[2]
[1]National University of Ireland-Galway, Galway, Ireland, [2]Point University-Savannah, Savannah, GA, United States

1266

PARENT USE OF PHYSICAL PUNISHMENT OF CHILDREN BY RELIGIOUS AFFILIATION IN THE DOMINICAN REPUBLIC

John D. McLennan[1], Harriet MacMillan[2], Tracie Afifi[3], Kewir Dufe[1]
[1]University of Calgary, Calgary, AB, Canada, [2]McMaster University, Hamilton, ON, Canada, [3]University of Manitoba, Winnipeg, MB, Canada

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MITIGATING INFODEMIC THROUGH MHEALTH, SOCIAL MEDIA AND ELECTRONIC MEDIA ON COVID-19 AND ITS VACCINATION AMONG PARENTS AND HEALTH CARE PROVIDERS - A QUALITATIVE EXPLORATORY STUDY

Abdul Momin Kazi[1], Nazia Ahsan[1], Raheel Allana[1], Rawshan Jabeen[1], Saima Jamal[1], Waliyah Mughis[1], Ayub Khan[1], Syeda Quratulain Zaidi[1], Qudsia Anwer[1], Fauzia Aman Malik[2]
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TRENDS IN NEGLECTED TROPICAL DISEASES BURDEN ASSOCIATED WITH DEVELOPMENT LEVEL: A MODELLING ANALYSIS FOR THE GLOBAL BURDEN OF DISEASE STUDY 2020

Ewerton Cousin, Cathleen Keller, Taren Gorman, Olivia Nesbit, Lydia Plante, Mustafa Sikder, Joanna Whisnant, Trent Yarosevich, Stephanie R. M. Zimsen, Jonathan Mosser
Institute for Health Metrics and Evaluation, Seattle, WA, United States

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RETROSPECTIVE MOLECULAR ANALYSIS OF SEXUALLY TRANSMITTED INFECTIONS (STI) FOR THE DETECTION OF MYCOPLASMA GENITALIUM IN GHANA

Helena Dela[1], Edward O. Nyarko[2], Anne T. Fox[3], **Terrel Sanders**[3], Naiki Attram[3]
[1]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]37 Military Hospital, Ghana Armed Forces, Accra, Ghana, [3]US Naval Medical Research Unit No. 3 Ghana Detachment, Accra, Ghana

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HISTO-BLOOD GROUP ANTIGENS AND LINEAR GROWTH IN A NICARAGUAN BIRTH COHORT

Seth Morrison[1], Rebecca Rubinstein[2], Kaitlyn Cross[3], Nadja Vielot[4], Lester Gutierrez[5], Fredman Gonzalez[5], Yaoska Reyes[5], Filemon Bucardo[5], Sylvia Becker-Dreps[6]
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FACTORS ASSOCIATED WITH HEMOGLOBIN LEVEL IN CHILDREN LIVING AT HIGH ALTITUDES IN CUSCO-PERU

Maria A. Caravedo[1], Melinda Tanabe[1], Clinton White[1], Maria Luisa Morales[2], Miguel Cabada[1]
[1]UTMB, Galveston, TX, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru

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EVOLUTION OF GLOBAL HEALTH EDUCATION AND TRAINING IN A MASTER OF PUBLIC HEALTH PROGRAM

Daniel Tisch J. Tisch, Andrew Morris, Peter A. Zimmerman
Case Western Reserve University, Cleveland, OH, United States

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IDENTIFYING AND ADDRESSING EXCESS BURDEN OF NEURAL TUBE DEFECTS FROM CHAMPS ETHIOPIA: TRANSFORMING DATA TO ACTION

Lola Madrid[1], Kartavya J. Vyas[2], Vijaya Kancherla[3], Haleluya Leulseged[4], Parminder S Suchdev[2], Quique Bassat[5], Samba O Sow[6], Shams El Arifeen[7], Shabir A Madhi[8], Victor Akelo[9], Ikechukwu Ogbuanu[10], J. Anthony G Scott[1], Dianna Blau[11], Inacio Mandomando[12], Adama M. Keita[6], Emily S Gurley[13], Sana Mahtab[8], Erik Kaluma[10], Yenenesh Tilahun[4], Rosauro Varo[5], Uma Onwuchekwa[14], Beth A. Tippet-Barr Tippet-Barr[9], Afruna Rahman[7], Elisio Xerinda[12], Kazi Munisul Islam[7], Emily Rogena[15], Sara Ajanovic[5], Karen L. Kotloff[14], Mohammad Zahid Hossain[7], Portia Mutevedzi[8], Cynthia G. Whitney[2], Nega Assefa[4]
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Global Health - Security/Emerging Infection Preparedness, Surveillance and Response(s)

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ACUTE ORAL PEDIATRIC CHAGAS DISEASE CASE SERIES IN LATIN AMERICA: BROAD IMPLICATIONS OF AN EMERGING TRANSMISSION

Lidia Gual Gonzalez[1], Gabriel Z. Laporta[2], Omar Cantillo-Barraza[3], Melissa S. Nolan[1]
[1]University of South Carolina, Arnold School of Public Health, Columbia, SC, United States, [2]Centro Universitário FMABC, Fundação ABC, Santo André, Brazil, [3]Universidad de Antioquia, Medellín, Colombia

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USE OF MICROBIOLOGICAL LABORATORY DATA ANALYSIS FOR ANTIBIOTIC STEWARDSHIP IN A HOSPITAL BASED SETTING: A TWO YEARS DATA REVIEW TO GUIDE PRESCRIPTIONS AND ANTIBIOTIC SUSCEPTIBILITY TESTING PRACTICES

Marie Paule Ngogang[1], Esther Voundi[2], Abel fils Nkoth[1], Welysiane Ngaleu[1], Pricile Ekoume[1], Pamela Nana[3], Moctar Mouiche[4], François-Xavier Mbopi-Keou[5]
[1]Yaounde General Hospital, Yaounde, Cameroon, [2]CHRACHER, Yaounde, Cameroon, [3]Ministry of Public Health, Yaounde, Cameroon, [4]IDDS, Yaounde, Cameroon, [5]Faculty of Medicine and Biomedical Sciences, University od Yaounde I, Yaounde, Cameroon

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THE DEMOCRATIC REPUBLIC OF THE CONGO AS A REGIONAL TRAINING CENTER TO CREATE SUSTAINABLE MONKEYPOX SURVEILLANCE SYSTEMS IN PRIORITY COUNTRIES: YEAR 1 ACTIVITIES OF A MULTI-YEAR PROJECT

Angelica L. Barrall[1], Nicole A. Hoff[1], Placide Mbala[2], Emmanuel Hasivirwe Vakaniaki[2], Michael Mengual[1], Emile Malembi[3], Thierry Kalonji[3], Joule Madinga[2], Matthew LeBreton[4], Jean-Jacques Muyembe[2], Anne Rimoin[1]
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CHANGES IN PERCEPTIONS AND IMPACT OF COVID-19 ON RESIDENTS IN A RURAL COMMUNITY IN BANGLADESH: A LONGITUDINAL QUALITATIVE RAPID ASSESSMENT

Shahana Parveen[1], Sazzad Hossain[1], Tonmoy Sarkar[1], Dalia Yeasmin[1], Faruqe Hussain[1], Sanwarul Bari[1], Maria Maixenchs[2], John Blevins[3], Emily S. Gurley[4], Shams El Arifeen[1]
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EVALUATION OF INFECTION PREVENTION AND CONTROL PREPAREDNESS DURING COVID-19 IN SELECTED HEALTH FACILITIES IN KISUMU AND SIAYA COUNTIES OF WESTERN KENYA

Fredrick Omiti[1], Eunice Ouma[1], Kizito Obiet[1], Kelvin Onoka[1], Corrie Mevis Omollo[1], Simon Kariuki[1], Julie Gutman[2], Julie Thwing[2]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]CDC, Atlanta, GA, United States

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FACTORS ASSOCIATED WITH COVID19 VACCINE UPTAKE IN A COMMUNITY BASED COHORT IN PONCE, PUERTO RICO

Tatiana Morales Ortiz[1], Carolina Torres[2], Chelsea G. Major[3], Dania M. Rodriguez[3], Robert Rodriguez Gonzalez[1], Laura E. Adams[3], Gabriela Paz Bailey[3], Vanessa Rivera Amill[1]
[1]Ponce Health Sciences University, Ponce, PR, United States, [2]Kāpili Services, LLC, Alaka`ina Foundation Family of Companies, Orlando, FL, United States, [3]Division of Vector Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States

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BUILDING THE CASE FOR ENHANCED SAMPLE REGISTRATION SYSTEMS FOR PUBLIC HEALTH: SIMULATING POTENTIAL LIVES SAVED IN ETHIOPIA, BANGLADESH, AND MOZAMBIQUE

Jonathan Andrew Muir, Robert Breiman, Solveig Cunningham
Emory University, Atlanta, GA, United States

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PERFORMANCE EVALUATIONS OF SARS-COV-2 DIAGNOSTICS DURING THE PANDEMIC: CHALLENGES AND LESSONS

Camille Escadafal, AllTalents Murahwa, Margaretha De Vos, Rossella Baldan, Ryan Jose Ruiz III, Devy Emperador, Aurélien Macé, Daniel G. Bausch, Aurélia Vessière, Jilian Sacks
FIND, Geneva, Switzerland

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UNDERSTANDING DATA MANAGEMENT PRACTICES IN LIBERIA: A CONVERGENT PARALLEL MIXED METHOD

Antoinette Hawa Wright
University of Liberia, college of Health Sciences, Monrovia, Liberia

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ACUTE FEBRILE ILLNESS IN REMOTE RIVERINE COMMUNITIES OF THE PERUVIAN AMAZON: AN OUTBREAK PREPAREDNESS PILOT STUDY

Greisi Elena Curico[1], Paul F. Garcia Bardales[1], Tackeshy N. Pinedo Vasquez[1], Wagner V. Shapiama Lopez[1], Maribel Paredes Olortegui[1], Wilma S. Casanova Rojas[2], Carlos Pacheco[2], Graciela Meza[2], Francesca Schiaffino[3], Josh M. Colston[3], Pablo Penataro_ Yori[3], Richard A. Oberhelman[4], Margaret N. Kosek[5]
[1]AB PRISMA, Iquitos, Peru, [2]Universidad Nacional de la Amazonia Peruana, Iquitos, Peru, [3]University of Virginia, Charlottsville, VA, United States, [4]Tulane University, New Orleans, LA, United States, [5]University of Virginia, Charlottesville, VA, United States

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ADOLESCENT CHILDBIRTH IN SOUTHERN RURAL MOZAMBIQUE: AN ANALYSIS OF LEVELS, TRENDS, AND DETERMINANTS USING A 22-YEARS HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM IN MANHICA DISTRICT, 1998-2019

Ariel Nhacolo[1], Edgar Jamisse[1], Teodomiro Matsena[1], Aura Hunguana[1], Quique Bassat[1], Inacio Mandomando[1], Alberto Garcia-Basteiro[1], Charfudin Sacoor[1], Carlos Arnaldo[2], Pedro Alonso[3]
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ORPHANHOOD IN SOUTHERN RURAL MOZAMBIQUE: AN ANALYSIS OF CAUSES, PREVALENCE, INCIDENCE, AND IMPACT ON CHILD MIGRATION USING A 22 YEARS HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM IN MANHICA DISTRICT

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CRYOPRESERVATION OF *ANOPHELES GAMBIAE* AND GENETICALLY MODIFIED STRAINS OF ANOPHELES STEPHENSI

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MICROBIAL CONTRIBUTION OF RNAS IN MOSQUITOES

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(ACMCIP Abstract)

Mosquitoes - Vector Biology-Epidemiology

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ANTI-AEDES NEST1 AND AGBR1 SALIVARY PROTEIN ANTIBODIES AND DENGUE SYMPTOMS

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(ACMCIP Abstract)

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EVALUATION OF ENVIRONMENTAL AND ENTOMOLOGIC LA CROSSE VIRUS RISK FACTORS IN WESTERN NORTH CAROLINA

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AEDES AEGYPTI THERMAL PREFERENCE IN TEMPERATURES AND RELATIVE HUMIDITY RELEVANT TO THE SOUTHWESTERN UNITED STATES

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HOW MOSQUITOES INTERACT WITH VECTOR CONTROL TOOLS - BEHAVIORAL ANALYSES USING 3D VIDEO TRACKING

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RIFT VALLEY FEVER VIRUS REASSORTMENT IN THE CULEX TARSALIS MOSQUITO VECTOR

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UTILIZING A BITE DIARY APP IN A CITIZEN SCIENCE PROGRAM TO QUANTIFY HUMAN-MOSQUITO CONTACT RATE AND REDUCE MOSQUITO-BORNE DISEASE RISK

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THE INSECT-SPECIFIC EILAT VIRUS CAUSES SUPERINFECTION EXCLUSION AGAINST WEST NILE VIRUS IN MOSQUITO CELLS

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LARVAL PERFORMANCE, BREEDING HABITAT PREFERENCE, AND INTERSPECIFIC COMPETITION BETWEEN AEDES ALBOPICTUS AND *AEDES AEGYPTI* IN MADAGASCAR

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MARK-RECAPTURE OF WEST NILE VIRUS VECTOR CULEX TARSALIS IN COLORADO, USA USING NOVEL DNA-LOADED NANOPOROUS PROTEIN CRYSTALS

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Flaviviridae – Dengue

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CO-DETECTION OF *PLASMODIUM FALCIPARUM* IN CHILDREN HOSPITALIZED WITH DENGUE FEVER IN THE DOMINICAN REPUBLIC

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THE IMPACT OF DEMOGRAPHIC TRANSITION AND SOCIO-ECONOMIC FACTORS ON DENGUE CIRCULATION IN BRAZIL, 2001-2020

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MOLECULAR EPIDEMIOLOGY OF TYPE 4 DENGUE VIRUS OUTBREAK IN PARAGUAY, 2019-2020

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PRE-EXISTING EXPOSURE TO DENGUE ALTERS HOST RESPONSE TO A TETRAVALENT DENGUE VACCINE, TAK-003

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IDENTIFICATION OF ARBOVIRUS AS CAUSE OF NEUROLOGICAL DISORDERS IN HOSPITALIZED PATIENTS IN SÃO JOSÉ DO RIO PRETO, SÃO PAULO, BRAZIL

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THE EFFECT OF AGE ON DENGUE PRESENTATION AND THE PERFORMANCE OF THE 2015 PAHO CASE DEFINITION IN A PUERTO RICAN COHORT

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DEVELOPMENT OF A NONHUMAN PRIMATE MODEL OF DENGUE VIRUS INFECTION

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REVISITING DENGUE DIAGNOSTICS FOR AFRICAN COUNTRIES

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POPULATION-BASED SEROPREVALENCE OF DENGUE IN URBAN AND SEMI-URBAN NEPAL

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SURVEILLANCE AND EVOLUTIONARY ANALYSIS OF DENGUE VIRUSES AND THE IMPACT ON EPIDEMIOLOGICAL DYNAMICS IN A DENGUE HYPEREDEMIC BRAZILIAN CITY, SAO PAULO, BRAZIL

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STRAINS OF DENGUE CIRCULATING IN THE WESTERN PROVINCE OF SRI LANKA DURING THE COVID-19 PANDEMIC

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Flaviviridae – Other

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ISOLATION OF YELLOW FEVER VIRUS AND SAINT LOUIS ENCEPHALITIS VIRUS FROM AEDES MOSQUITOES IN AN URBAN AREA OF SOUTHWESTERN REGION OF SAO PAULO STATE, BRAZIL

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EVALUATING THE POTENCY OF YELLOW FEVER VACCINE SERUM NEUTRALIZING ANTIBODIES (≥ 10 YEARS POST-VACCINATION) AGAINST WILD TYPE YELLOW FEVER AND VACCINE STRAIN VIRUSES IN A NON-ENDEMIC COHORT

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SPACE SPRAY EFFICACY OF FLUDORA CO-MAX EW AGAINST INSECTICIDE-RESISTANT *AEDES AEGYPTI* AND CULEX QUINQUEFASCIATUS MOSQUITOES FROM CÔTE D'IVOIRE: A SEMI-FIELD EVALUATION

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CLIMATE CHANGE IMPACTS ON ZIKA AND DENGUE RISK: PROJECTIONS USING A TEMPERATURE-DEPENDENT BASIC REPRODUCTION NUMBER

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VARIABLE NEUTRALIZATION OF SYLVATIC DENGUE BY HUMAN PRIMARY DENGUE IMMUNE SERA

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EPIDEMIOLOGICAL AND CLINICAL CHARACTERISTICS OF PREGNANT WOMEN EXPOSED TO THE 2016 ZIKA VIRUS EPIDEMIC IN LATIN AMERICA: A DESCRIPTIVE ANALYSIS OF THE ZIKALLIANCE PREGNANT WOMEN COHORT

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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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BREADTH AND POTENCY OF NEUTRALIZING ANTIBODIES TO YFV, UP TO 10 YEARS POST-VACCINATION

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CHARACTERIZING THE IMMUNOGENICITY AND EFFICACY OF A CHIMERIC INSECT-SPECIFIC VIRUS VACCINE AGAINST ZIKA VIRUS

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MATERNAL ZIKV INFECTION AND RISK OF DIFFERENT CONGENITAL ABNORMALITIES IN NEWBORNS - RESULTS FROM THE ZIKALLIANCE CONSORTIUM

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ZIKA VIRUS (ZIKV) DIAGNOSTIC TESTING IN 8 LATIN AMERICAN COUNTRIES IN 2017-2019: RESULTS OF THE ZIKALLIANCE PROSPECTIVE COHORT STUDY

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COXSACKIEVIRUS A6 CAUSING HAND FOOT AND MOUTH OUTBREAK IN NORTHEASTERN BRAZIL 2018

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SEROPREVALENCE OF SARS-COV-2 INFECTION AFTER THE SECOND WAVE IN KINSHASA, DEMOCRATIC REPUBLIC OF THE CONGO

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IMMUNOGENICITY AND EFFICACY OF ADVAX-2 ADJUVANTED PSORALEN-INACTIVATED SARS-COV-2 VACCINE IN NONHUMAN PRIMATES

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COVID-19 VACCINE HESITANCY: VACCINATION ACCEPTABILITY IN SOWETO, SOUTH AFRICA

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CLINICAL EVALUATION OF A RAPID DIAGNOSTIC TEST FOR THE DETECTION OF SARS-COV-2 IN NASAL SAMPLES

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DYNAMICS OF THE IMMUNE HUMORAL RESPONSE IN COVID-19 VACCINATED INDIVIDUALS: A POPULATION-BASED STUDY ACROSS THE 46 MUNICIPALITIES OF BOLÍVAR, COLOMBIA, 2021

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ETHICAL ISSUES OF PUBLIC HEALTH POLICIES TO FIGHT AGAINST COVID19 IN MALI

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ROTAVIRUS GENOTYPES OVER TIME IN VACCINE-INTRODUCING AND NON-INTRODUCING COUNTRIES

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HEMIN DRIVES PLASMA CELL DIFFERENTIATION AND VIRAL REACTIVATION OF EBV LATENTLY INFECTED MUTU I CELLS

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(ACMCIP Abstract)

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ADAPTING A COVID-19 ELISA FOR DRIED BLOOD SPOT TESTING IN MALI, WEST AFRICA

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ACQUISITION OF SARS-COV-2 NEUTRALIZING ANTIBODIES IN RURAL KENYA: A 24-MONTH PRE- AND PERI-PANDEMIC COMMUNITY COHORT STUDY

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MUCH NEEDED INCIDENCE STUDIES IN SUPPORT OF LASSA FEVER VACCINE DEVELOPMENT: METHODS AND ENROLLMENT

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FACTORS ASSOCIATED WITH PERCEIVED SUSCEPTIBILITY TO COVID-19 IN THE DEMOCRATIC REPUBLIC OF CONGO

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ASSESSING URBAN DRIVERS OF VARIATION IN DENGUE RISK IN COLOMBO CITY, SRI LANKA USING POINT PROCESS SPATIAL MODELLING

Nayantara Wijayanandana[1], Jorge Cano Ortega[2], Ruwan Wijayamuni[3], Hasitha Tissera[4], Gabriel Ribeiro Dos Santos[5], Christian Bottomley[1], Henrik Salje[5], Neal Alexander[1]
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UNDERSTANDING COVID19 VACCINE HESITANCY IN THE JOHNSONVILLE PEPPER WULU TOWN COMMUNITY, LIBERIA, A QUALITATIVE STUDY

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INTRAHOST DIVERSITY OF SARS COV-2 IN UNVACCINATED AND VACCINATED PATIENTS FROM SAO JOSE DO RIO PRETO, SAO PAULO, BRAZIL

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USING A PROSPECTIVE COHORT OF AGRICULTURAL WORKERS TO QUANTIFY HOUSEHOLD TRANSMISSION OF SARS-COV-2, GUATEMALA 2021-2022

Molly M. Lamb[1], Anna N. Chard[2], Diva M. Calvimontes[3], Lindsey M. Duca[2], Chelsea Iwamoto[2], Talia Quandelacy[1], Jose Carlos Monzon[4], Neudy Rojop[3], Kareen Arias[3], Melissa Gomez[3], Maria Renee Lopez[5], Claudia Paiz[3], Guillermo A. Bolanos[3], Emily Gutierrez-Zielinski[6], Eduardo Azziz-Baumgartner[2], Celia Cordon-Rosales[5], Edwin J. Asturias[7], Daniel Olson[8]
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INFECTIONS DUE TO CHLAMYDIA TRACHOMATIS, UREAPLASMA UREALYTICUM AND MYCOPLASMA GENITALIUM ASSOCIATED WITH HUMAN PAPILLOMA VIRUS IN ASYMPTOMATIC SEXUALLY ACTIVE WOMEN FROM CAJAMARCA, PERU

Priscilla Pella[1], Fatima Ramos[1], Johanna Martins-Luna[2], **Juana Del Valle-Mendoza**[1], Luis J. del Valle[3], Luis Pinillos-Vilca[4], Hugo Carrillo-Ng[2], Wilmer Silva-Caso[1], Carmen Tinco-Valdez[2], Juan Alvitres-Arana[5], Miguel Angel Aguilar-Luis[1]
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EVALUATION OF TEST STANDARD Q COVID-19 AG (SD BIOSENSOR INC., KOREA) FOR THE SARS-COV-2 DETECTION AMONG SYMPTOMATIC PATIENTS AND HOUSEHOLD CASE AT THE CENTRE DE TRAITEMENT AMBULATOIRE D'ANGONDJÉ, LIBREVILLE, GABON

Noé Patrick M'bondoukwé, Jacques Mari Ndong Ngomo, Stéphane Ogoula, Junior Dimitri Moudoumbi Mouandza, Denise Patricia Mawili-Mboumba, Marielle Karine Bouyou-Akotet
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SPECIFIC TRANSMISSION BLOCKING OF SARS-COV-2 USING NEUTRALIZING SULPHATED POLYSACCHARIDE FORMULATIONS TO SATURATE ACE2 RICH MUCOSA

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IN VITRO BIOLOGICAL CHARACTERIZATION OF THE SARS-COV-2 VARIANT P.4 AND THE CORRELATION WITH EPIDEMIOLOGICAL ASPECTS

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CLINICAL EVALUATION OF THE BIOFIRE® COVID-19 TEST 2

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INVESTIGATING TRANSMISSION DYNAMICS OF SARS-COV-2 IN A LARGE UNIVERSITY COMMUNITY

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PERCEIVED SELF EFFICACY FOR PREVENTING DENGUE FEVER IN TWO CLIMATICALLY DIVERSE MEXICAN STATES

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STOP HEP B @ BIRTH: A COMMUNITY-ORIENTED CARE MODEL FOR MICRO-ELIMINATION OF MOTHER-TO-CHILD TRANSMISSION OF HEPATITIS B IN PERI-URBAN YANGON: A SINGLE ARM PROSPECTIVE STUDY

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DEFINING PROTECTIVE ANTIBODY RESPONSES TO A RECOMBINANT SUBUNIT EBOLA VIRUS VACCINE: THE SEARCH FOR A CORRELATE OF PROTECTION

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CLINICAL AND ECONOMIC IMPACT OF COVID-19 ON PLANTATION WORKERS: PRELIMINARY RESULTS FROM THE GUATEMALA AGRICULTURAL WORKERS AND RESPIRATORY ILLNESS IMPACT (AGRI) STUDY

Daniel Olson[1], Diva M. Calvimontes[2], Molly M. Lamb[3], Edgar Barrios[2], Neudy Rojop[2], Kareen Arias[2], Melissa Gomez[2], Gerber Guzman[2], Guillermo A. Bolanos[2], Jose Carlos Monzon[4], Anna N. Chard[5], Chelsea Iwamoto[5], Lindsey Duca[5], Melissa Fineman[3], Kelly Lesteberg[1], J. D. Beckham[1], Mario Santiago[1], Kendra Quicke[6], Gregory Ebel[6], Claudia Paiz[2], Emily Zielinski-Gutierrez[4], Eduardo Azziz-Baumgartner[5], Frederick G. Hayden[7], Hani Mansour[8], Kathryn Edwards[9], Lee S. Newman[1], Edwin J. Asturias[1]

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ASYMPTOMATIC SARS-COV-2 INFECTIONS, BNT162B2 MRNA COVID 19 VACCINE-RELATED SYMPTOMS, AND CORRELATES OF IMMUNITY IN POST-VACCINATION BREAKTHROUGH INFECTIONS IN THE PROSPECTIVE ASSESSMENT OF SARS-COV-2 SEROCONVERSION (PASS) STUDY

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RECONSTRUCTING THE SARS-COV-2 EPIDEMIC IN EASTERN UGANDA: INSIGHTS FROM A MALARIA LONGITUDINAL STUDY

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GENOMIC SURVEILLANCE OF SARS-COV-2 IN PUERTO RICO REVEALS EMERGENCE OF AUTOCHTHONOUS LINEAGE AND VARIANT TURNOVER DYNAMICS

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A DESCRIPTIVE LOOK AT COVID CASE INVESTIGATIONS AND CONTACT TRACING IN BRAZOS COUNTY, TEXAS FROM MARCH 2020 TO JULY 2021

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ORACOV: AN IMPROVED VACCINE PLATFORM TO DELIVER A ROOM TEMPERATURE STABLE, ORALLY ADMINISTERED VACCINE AGAINST SARS-COV-2 AND OTHER EMERGING INFECTIOUS DISEASES

Ehud Inbar[1], Tint Tint Wai[2], Dimitri Koutzoumis[1], Eric James[1], Sumana Chakravarty[1], MingLin Li[2], Lixin Gao[2], Natasha KC[2], Stephen L. Hoffman[1], B. Kim Lee Sim[2]
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NON-NEUTRALIZING ANTIBODY-MEDIATED RESPONSE TO SARS-COV-2 INFECTION

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MULTI-ORGAN NATURAL EXPRESSION OF HUMAN ACE2/ TMPRSS2 RECEPTOR COMPLEX FOR SARS-COV-2 IN A HUMAN IMMUNE SYSTEM-HUMANIZED DRAGA MOUSE (HLA-A2. HLA-DR4. RAG1 KO. IL-2RGC KO. NOD)

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SARS-COV-2 NEUTRALIZING ANTIBODY REPERTOIRE AFTER INFECTION AND VACCINATION

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SEROSURVEILLANCE FOR SARS COV-2 ANTIBODY IN FERAL HOGS AND WHITE-TAILED DEER IN TEXAS

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SENORINEURAL HEARING LOSS IN SARS COV2 INFECTION

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VARICELLA ZOSTER ENCEPHALITIS IN AN IMMUNOCOMPETENT LADY

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Malaria - Antimalarial Resistance and Chemotherapy

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EXPLORING THE ROLE OF PFCORONIN IN WILDTYPE AND ARTEMISININ-RESISTANT *PLASMODIUM FALCIPARUM*

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PREVALENCE OF SULFADOXINE-PYRIMETHAMINE RESISTANCE MARKERS OF *PLASMODIUM FALCIPARUM* AMONG PREGNANT WOMEN IN AN AREA OF HIGH MALARIA TRANSMISSION: NCHELENGE, ZAMBIA

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DESIGNING CHEMOPREVENTION TRIALS TO MEASURE PROTECTIVE EFFICACY AND EFFECTS OF RESISTANCE: INSIGHTS FROM SIMULATION

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THE MYSTERY OF THE ADAPTIVE PROLINE RESPONSE SOLVED: LOSS OF FUNCTION OF THE *P. FALCIPARUM* MFR4 MEDIATES HALOFUGINONE RESISTANCE

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EVALUATION OF *IN VITRO* AND MOLECULAR ANTIMALARIAL SUSCEPTIBILITY PRIOR TO AND DURING COVID-19 PANDEMIC 2018-2019 TO 2021-2022

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PROMPT TREATMENT SEEKING BEHAVIOR AMONG CAREGIVERS OF CHILDREN WITH MALARIA RELATED FEVER IN RURAL MALAWI

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IDENTIFICATION OF NOVEL DETERMINANTS ASSOCIATED WITH QUININE AND CHLOROQUINE RESISTANCE IN A *PLASMODIUM FALCIPARUM* GENETIC CROSS

Mariko Kanai[1], Sachel Mok[1], Leila S. Ross[1], Tomas Yeo[1], Melanie J. Shears[2], Meseret T. Haile[1], Abhai K. Tripathi[2], Godfree Mlambo[2], Kate J. Fairhurst[1], Jessica L. Bridgford[1], Felix D. Rozenberg[1], Heekuk Park[1], Jennifer L. Small-Saunders[1], Marcus CS Lee[3], Anne-Catrin Uhlemann[1], Photini Sinnis[2], David A. Fidock[1]
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REDUCTION IN MALARIA MORBIDITY IN CHILDREN UNDER FIVE FOLLOWING INTEGRATED COMMUNITY CASE MANAGEMENT IMPLEMENTATION, NORTHERN UGANDA, 2015 TO 2017

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ELUCIDATING THE EFFECT OF FALCIPAIN2A POLYMORPHISM ON ARTEMISININ DRUG RESISTANCE

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THERAPEUTIC EFFICACY OF DIHYDROARTEMISININ-PIPERAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* INFECTION IN ETHIOPIA

Hussein Mohammed[1], Kale Gubae[2], Mihreteab Alebachew[3], Heven Sime[1], Henock Hailgorgis[1], Bokretsion Gidey[1], Mebrahtom Haile[4], Gudissa Assefa[4], Worku Bekele[5], Jonathan B. Parr[6], Jonathan J. Juliano[6], Moges Kassa[1], Adugna Abera[1], Geremew Tasew[1], **Ashenafi Assefa Bahita**[1]
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MICROSATELLITES REVEAL HIGH POLYMORPHISM AND A LACK OF POPULATION STRUCTURE AMONG MALARIA PARASITES FROM AREAS WITH DIFFERENT TRANSMISSION INTENSITIES IN MAINLAND TANZANIA

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ELUCIDATING THE PATH TO *PLASMODIUM* PROLYL-TRNA SYNTHETASE INHIBITORS THAT OVERCOME HALOFUGINONE-RESISTANCE

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EFFECTIVENESS OF DIHYDROARTEMISININ PIPERAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION AMONG CHILDREN UNDER TEN YEARS OF AGE IN KOULIKORO, MALI A CLUSTER RANDOMIZED TRIAL

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ASSOCIATION OF LUMEFATRINE PHARMACOKINETICS AND RESISTANCE SELECTION FOLLOWING ARTEMETHER-LUMEFANTRINE TREATMENT IN CHILDREN WITH AND WITHOUT HIV IN UGANDA

Katherine Kay[1], **Justin Goodwin**[2], Hanna Ehrlich[2], Joyce Ou[3], Tracy Freeman[3], Kaicheng Wang[2], Fangyong Li[2], Liusheng Huang[4], Francesca T. Aweeka[4], Norah Mwebaza[5], Richard Kajubi[5], Matthew Riggs[1], Ana Ruiz-Garcia[1], Sunil Parikh[2]
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CHEMOPREVENTION EFFICACY STUDIES DETERMINING IF SEASONAL MALARIA CHEMOPREVENTION IS EFFICACIOUS IN MOZAMBIQUE, UGANDA AND SOUTH SUDAN VIA A NOVEL RESEARCH PROTOCOL

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DYNAMICS OF ANTIMALARIAL DRUG EFFICACY IN THE GREAT LAKES REGION OF AFRICA: A SYSTEMATIC LITERATURE REVIEW AND META-ANALYSIS

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THE DEVELOPMENT OF NOVEL 4-AMINOQUINOLINES AS THERAPEUTICS AGAINST MULTI-DRUG RESISTANT *PLASMODIUM FALCIPARUM*

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GUT BARRIER INTEGRITY IN MACAQUES INFECTED WITH *PLASMODIUM KNOWLESI*

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TWO SAFE AND ORALLY ADMINISTERED DRUGS TO BLOCK THE TRANSMISSION OF MALARIA INDUCING SPLENIC RETENTION OF MATURE GAMETOCYTES

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EXPOSURE TO MOSQUITO BITES AS STIMULUS FOR *P. FALCIPARUM* GAMETOCYTE PRODUCTION

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KINETICS OF TRANSMISSIBILITY TO MOSQUITOES FROM CLINICAL *P. VIVAX* INFECTIONS IN ETHIOPIA: COMPARISON BETWEEN PRIMARY AND RECURRENT INFECTIONS

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PROSPECTIVE EVALUATION OF POST-ARTEMISININ HEMOLYTIC ANEMIA IN AFRICAN CHILDREN WITH SEVERE MALARIA

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PREVALENCE AND GENETIC CHARACTERISTICS OF *PLASMODIUM VIVAX* GAMETOCYTES IN DUFFY-POSITIVE AND DUFFY-NEGATIVE AFRICANS

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USE OF EX VIVO BRAIN ORGANOIDS TO MODEL THE EFFECTS OF MALARIA AND SICKLE CELL DISEASE-ASSOCIATED HEMOLYSIS ON FETAL BRAIN

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STRUCTURAL EQUATION MODEL OF MOLECULAR PERTURBATIONS IN ASYMPTOMATIC INFECTION WITH *PLASMODIUM FALCIPARUM*

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DISRUPTING THE BLOOD BRAIN BARRIER: A ROLE FOR HEME-LADEN *PLASMODIUM FALCIPARUM* HISTIDINE-RICH PROTEIN II PARTICLES

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HIGH RESOLUTION LIPIDOMIC PROFILING OF HOST RESPONSE TO *PLASMODIUM FALCIPARUM* MALARIA

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PLASMODIUM FALCIPARUM-INDUCED ACTIVATION OF IMMUNOMETABOLISM PATHWAYS *IN VIVO*

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Malaria - Diagnosis - Challenges and Innovations

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EFFECTIVENESS OF BASIC MALARIA DIAGNOSTIC REFRESHER TRAINING ON THE ACQUISITION OF SKILLS AMONG LABORATORY TECHNICIANS IN MALI

Sekou Koumaré[1], Abdoulaye Oueleguem[1], Fatoumata D. Touré[2], Renion Saye[3], Julie Buekens[4], Oumar Coulibaly[5], Aliou Diallo[6], Lansana Sangaré[6], Nene Boua Konaté[1], Aissata Kone[2], Beh Kamate[1]
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ASSESSING THE RISK OF MALARIA RAPID DIAGNOSTIC TESTING FAILURE AS A RESULT OF PF HRP2 GENE DELETION

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ANALYZING THE DISTRIBUTION AND REPORTING OF SEVERE MALARIA DIAGNOSIS IN MALI

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HEMOZOIN CLEARANCE RATES POST TREATMENT WITH COARTEM USING MAGNETO-OPTICAL DETECTION, MOD

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LOW PREVALENCE OF *PLASMODIUM FALCIPARUM* INFECTION WITH PFHRP2/3 DELETION IN A LONGITUDINAL STUDY IN KINSHASA PROVINCE, DEMOCRATIC REPUBLIC OF CONGO

Ruthly François[1], Melchior K. Mwandagalirwa[2], Kristin Banek[1], Joseph A. Bala[2], Marthe Nkalani[2], Georges Kihuma[2], Joseph A. Losoma[2], Kyaw L. Thwai[1], Ashenafi A. Bahita[1], Jeffrey A. Bailey[3], Rhoel Dinglasan[4], Jonathan J. Juliano[1], Antoinette Tshefu[2], Jonathan B. Parr[1]
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OUTREACH TRAINING AND SUPPORTIVE SUPERVISION IN PUBLIC HEALTH FACILITIES OF BIOKO ISLAND TO IMPROVE MALARIA DIAGNOSTICS AND CASE MANAGEMENT

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CLINICAL EVALUATION OF AN INNOVATIVE AUTOMATED MICROSCOPE SOLUTIONS (AUTOMIC, MILAB™) FOR THE DETECTION OF MALARIA PARASITES IN PATIENTS WITH SYMPTOMS SUGGESTIVE OF MALARIA IN SUDAN

Muzamil M. Abdel Hamid[1], Abdelrahim O. Mohamad[1], Arwa O. Elaagip[1], Musab M. Albsheer[1], Fayad O. Jamaleldin[1], Waleed M. Alhaj[1], Xavier Ding[2], Ewurama D.A. Owusu[3], Seda Yerlikaya[4]
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REAL-TIME PCR TO DETECT *PLASMODIUM* OVALE CURTISI AND WALLIKERI WITHIN MIXED SPECIES INFECTIONS

Varun Potlapalli, Meredith S. Muller, Danielle R. Williams, Yu Bin Na, Feng-Chang Lin, Innocent Mbulli Ali, Billy Ngasala, Jonathan J. Juliano, Jonathan Parr, Jessica T. Lin
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THE CHELEX AND WASH (C&W) METHOD: AN INSTANT TOTAL NUCLEIC ACID EXTRACTION FOR MALARIA FROM BLOOD THAT IS COMPATIBLE WITH LOOP MEDIATED ISOTHERMAL AMPLIFICATION AT THE POINT OF CARE

Jack Burke-Gaffney, Claire Kamalilddin, Noah Toppings, Hitendra Kumar, Dylan R. Pillai
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CHARACTERIZATION OF POLYCLONAL ANTIBODIES AGAINST *PLASMODIUM VIVAX*-SPECIFIC TARGETS

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COST-EFFECTIVENESS AND SENSITIVITY OF POOLED PCR TESTING STRATEGY FOR MALARIA SURVEILLANCE IN LOW TRANSMISSION SETTINGS

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DESIGN AND VALIDATION OF A LOW-COST ELECTRICITY-FREE DEVICE FOR AUTOMATED THIN SMEARING OF WHOLE BLOOD

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GENERATION OF RIBOSOME DISPLAY SCFV ANTIBODIES FOR MALARIA DIAGNOSTICS

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(ACMCIP Abstract)

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DRIED BLOOD SPOTS: THE IDEAL MOLECULAR DIAGNOSTIC SAMPLE FOR MALARIA FIELD STUDIES

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CLINICAL PERFORMANCE EVALUATION OF BINAXNOW MALARIA PFPAN RAPID DIAGNOSTIC TEST FOR THE PARASITOLOGICAL CONFIRMATION OF MALARIA IN LAGOS, NIGERIA

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CLINICOPARASITOLOGIC CONSIDERATIONS IN THE IMPLEMENTATION OF THE NATIONAL GUIDELINES ON DIAGNOSIS AND TREATMENT OF SUSPECTED MALARIA PATIENTS IN LAGOS STATE, NIGERIA

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Malaria - Drug Development and Clinical Trials

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EFFICACY AND SAFETY OF PYRONARIDINE-ARTESUNATE (PYRAMAX), A NEWLY-REGISTERED ARTEMISININ-BASED COMBINATION FOR THE TREATMENT OF MALARIA INFECTION IN AFRICAN PREGNANT WOMEN

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AN UNEXPECTED TURN: A 4-AMINOQUINOLINE ANTIMALARIAL COMPOUND INHIBITS *PLASMODIUM* SEXUAL STAGES *IN VITRO*

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Malaria – Elimination

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EXPLORING THE EXPECTED SYNERGY AMONG NEW MALARIA CONTROL TOOLS IN HIGH-BURDEN VERSUS NEAR-ELIMINATION SETTINGS

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Malaria - Epidemiology, Surveillance and Data Utilization

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HAVING A PARENT WORKING IN AGRICULTURE IS ASSOCIATED WITH TESTING POSITIVE FOR MALARIA AMONG CHILDREN LIVING IN URBAN NIGERIA

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PUTTING MOBILITY ON THE MALARIA INCIDENCE MAP: ACCOUNTING FOR HEALTH FACILITY TRIPS ACROSS THE COVID-19 PANDEMIC WHEN MAPPING MALARIA BURDEN

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CHANGES IN VECTOR BIONOMICS MAY BE PARTLY RESPONSIBLE FOR THE CURTAILMENT OF MOSQUITO CONTROL EFFECTIVENESS ON BIOKO ISLAND

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QUALITY OF MALARIA CASE MANAGEMENT AND ROUTINE DATA ACROSS 6 PROVINCES IN MOZAMBIQUE

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EVALUATING THE CONTRIBUTION OF INCREASED RAINFALL ON RISING PREVALENCE ON BIOKO ISLAND, EQUATORIAL GUINEA DESPITE SUSTAINED VECTOR CONTROL

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EVALUATING THE MALARIA SURVEILLANCE SYSTEM IN THE DEMOCRATIC REPUBLIC OF CONGO FOR STRENGTHENING SURVEILLANCE AND EFFICIENT MALARIA CONTROL

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MALARIA TREND IN LIBREVILLE GABON FROM 2000 TO 2020

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A DECADE OF MALARIA CONTROL IN INDONESIA (2010-2019): ANALYSIS OF ROUTINE SURVEILLANCE AND BED NETS DISTRIBUTION DATA

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PERFORMANCE OF A QUANTITATIVE SUSPENSION ARRAY TECHNOLOGY (QSAT) ASSAY TO ASSESS SARS-COV2 SEROPREVALENCE IN MALARIA-EXPOSED AFRICAN INDIVIDUALS

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(ACMCIP Abstract)

1507

DESIGN OF A MULTIPURPOSE AMPLICON SEQUENCING PANEL FOR HIGH RESOLUTION SURVEILLANCE OF *P. FALCIPARUM* RELATEDNESS, GEOGRAPHIC ORIGIN, AND DRUG & DIAGNOSTIC RESISTANCE

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COMPARISON OF ANEMIA AND MALARIA PREVALENCE IN PREGNANT VERSUS NON-PREGNANT WOMEN OF REPRODUCTIVE AGE IN WESTERN KENYA, 2015-2019

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USING DIGITAL DROPLET (DD)PCR TO BETTER UNDERSTAND HRP2 DELETION COMPLEXITY OF INFECTION

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STRATIFYING MALARIA CONTROL APPROACHES IN MADAGASCAR: MONITORING SPATIO-TEMPORAL VARIATION AND THE IMPACT OF EXTREME WEATHER EVENTS IN THE COASTAL MANANJARY DISTRICT

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ACTIVE CASE DETECTION FOR MALARIA: SURVEILLANCE OR INTERVENTION?

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THE CHANGES IN MALARIA EPIDEMIOLOGY AS WE APPROACH MALARIA ELIMINATION: IDENTIFICATION OF P. CYNOMOLGI AND P.KNOWLESI AND P.MALARIA IN SOUTHEAST ASIA

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ENVIRONMENTAL PREDICTORS OF MALARIA INFECTION IN SUSSUNDENGA, MOZAMBIQUE

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MALARIA VACCINE AVERTED HEALTH BURDEN IN AFRICA: MODELING CASES, RESISTANT CASES, AND DEATHS AVERTED BY 2030

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Malaria - Genomics and Evolution of Parasite Populations

1515

CHEMOGENOMIC PROFILING OF A *PLASMODIUM FALCIPARUM* MUTANT LIBRARY REVEALS SHARED EFFECTS OF DIHYDROARTEMISININ (DHA) AND BORTEZOMIB (BTZ) ON LIPID METABOLISM AND EXPORTED PROTEINS

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1516

USE OF TRAVEL HISTORY AND PARASITE GENOMIC DATA WITH STANDARD SURVEILLANCE TO TRACK MALARIA TRANSMISSION DYNAMICS AND IDENTIFY RESERVOIRS OF TRANSMISSION IN THE LOW-ENDEMIC SETTING OF ZANZIBAR

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EPIDEMIOLOGY OF *PLASMODIUM VIVAX* ACROSS DUFFY PHENOTYPES BY HIGHLY MULTIPLEXED AMPLICON DEEP SEQUENCING TO ASSESS MICROHAPLOTYPES

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DYNAMICS OF COMPLEXITY OF P.FALCIPARUM INFECTION AND GENETIC DIVERSITY OF PFAMA1 AND PFCSP BETWEEN BOUGOULA-HAMEAU AND FALADJE IN MALI

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1519

VARIABILITY OF *PLASMODIUM FALCIPARUM* ASEXUAL AND SEXUAL PARASITE CARRIAGE AMONGST INDIVIDUALS WITH SYMPTOMATIC AND ASYMPTOMATIC INFECTIONS IN KOMBEWA, KISUMU COUNTY KENYA

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POPULATION GENETICS OF *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN IN FOUR REGIONS WITH DIFFERENT MALARIA ENDEMICITY IN TANZANIA

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TRACKING ANTIMALARIAL RESISTANCE IN MOSQUITO POPULATIONS

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1522

LONGITUDINAL GENOMIC ANALYSIS OF *PLASMODIUM FALCIPARUM* TRACKS ADAPTATION DURING A PERIOD OF INTENSIVE INTERVENTION

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GENOMIC VARIATION OF RELAPSING *PLASMODIUM VIVAX* IN CAMBODIA

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TRACKING *PLASMODIUM FALCIPARUM* ANTIGENIC DIVERSITY IN A LONGITUDINAL COHORT

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TRACKING ACTIVE SELECTIVE SWEEPS IN *PLASMODIUM FALCIPARUM* IN SENEGAL THROUGH SHARED HAPLOTYPES

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IS THE *PLASMODIUM FALCIPARUM* POPULATION ON BIOKO ISLAND, EQUATORIAL GUINEA, DISTINCT FROM THOSE IN NEARBY CONTINENTAL AFRICA?

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INFLUENCE OF DRUG PRESSURE ON GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* FOLLOWING THE ADMINISTRATION OF ARTEMISININ-BASED COMBINATION THERAPIES AMONG CHILDREN INFECTED WITH UNCOMPLICATED MALARIA IN YAOUNDÉ, CAMEROON

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FIRST COMPLETE GENOME OF THE SIMIAN MALARIA PARASITE *PLASMODIUM* BRASILIANUM

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Malaria - Immune Responses to Infection and Disease

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INFANTS BORN FROM MOTHERS UNDER DP OR SP IPTP HAVE SIMILAR SEROLOGICAL RESPONSES AGAINST PFEMP1 PROTEINS

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DEVELOPMENT OF AN *IN VITRO* MODEL TO INVESTIGATE THE CONTRIBUTION OF IMMUNE DYSREGULATION TO CEREBRAL MALARIA DEVELOPMENT

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(ACMCIP Abstract)

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SEROLOGICAL RESPONSES TO MALARIA VARIANT SURFACE ANTIGENS AT BIRTH AND RISK OF MALARIA DURING INFANCY

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RNA-SEQ REVEALS ALTERATION OF TRANSCRIPTS FOR GLUTAMINE TRANSPORTERS IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA

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IMPLICATIONS OF THE INNATE IMMUNE RESPONSE TO *PLASMODIUM FALCIPARUM* FOR MODELING: A LITERATURE REVIEW AND MODELING ANALYSIS

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HUMAN ANTIBODY RESPONSES TO ANOPHELINE SALIVARY ANTIGENS AFTER MOSQUITO SKIN FEEDING IN A MALARIA ENDEMIC SETTING

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MACAQUE MONKEYS (MACACA MULATTA) DIFFER IN THEIR GENE EXPRESSION RESPONSE TO TWO *PLASMODIUM* SPECIES

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PREVALENCE OF STUNTING AND ITS ASSOCIATION WITH COGNITIVE IMPAIRMENT IN CHILDREN IN UGANDA WITH OR WITHOUT SEVERE MALARIA

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EFFECT OF HOST RESPONSE ON BLOOD STAGE *PLASMODIUM FALCIPARUM* EXPORTOME

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(ACMCIP Abstract)

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ANALYSIS OF THE STRUCTURE AND EPITOPE CHARACTERISTICS OF NOVEL *PLASMODIUM FALCIPARUM* ANTIGENS

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(ACMCIP Abstract)

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EVALUATION OF THE PROTECTIVE ROLE OF TGF-B1 AND IL-10 DURING HEMATOLOGICAL COMPLICATIONS IN VIVAX MALARIA

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ALTERED GENE EXPRESSION IN GAMMA DELTA T CELLS IN CHILDREN WITH MALARIA AND SCHISTOSOMIASIS CO-INFECTION RELATIVE TO CHILDREN INFECTED WITH MALARIA ALONE

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(ACMCIP Abstract)

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SPECIFIC MEROZOITE-STAGE AND VARIANT SURFACE ANTIGENS ARE TARGETS OF PROTECTIVE IMMUNITY UNDER DIFFERENT CLINICAL MALARIA STATUS

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(ACMCIP Abstract)

Malaria – Other

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IMPROVING ACCESS TO ESSENTIAL TREATMENT SERVICES FOR CHILDREN UNDER-FIVE YEARS OF AGE BY USING THE MALARIA INTEGRATED COMMUNITY CASE MANAGEMENT PACKAGE IN TWO U.S. PMI IMPACT MALARIA SUPPORTED DISTRICTS, RWANDA

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A RANDOMIZED TRIAL OF TEXT MESSAGES TO PROMOTE INSECTICIDE-TREATED NET (ITN) USAGE USING BEHAVIORAL ECONOMIC PRINCIPLES AND THE SMARTNET INITIATIVE MOBILE PHONE NETWORK

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COMPARING MALARIA DISABILITY ADJUSTED LIFE YEARS VS TOTAL FUNDING, 2000-2017

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IMPROVING DELIVERY OF SEASONAL MALARIA CHEMOPREVENTION IN MINING AREAS IN GUINEA: FINDINGS OF IMPLEMENTATION RESEARCH

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3D MICROFLUIDICS-ASSISTED MODELING OF NUTRIENT TRANSPORT IN PLACENTAL MALARIA

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RECALIBRATION OF A MATHEMATICAL MODEL OF MALARIA TRANSMISSION WITH PARASITE AND INFECTIVITY DATA FROM BURKINA FASO

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EPIDEMIOLOGICAL AND GENETIC MODELING OF MALARIA TRANSMISSION TO INTERROGATE THE RELATIONSHIP BETWEEN GENETIC FEATURES AND TRANSMISSION PROPERTIES

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PLASMODIUM VIVAX AMA1 DERIVED HUMAN MONOCLONAL ANTIBODY BLOCKS *P. KNOWLESI* ERYTHROCYTE INVASION

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(ACMCIP Abstract)

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Malaria – Prevention

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MICROBIOTA COMPOSITION IN ANOPHELES MOSQUITOES AFTER AMOXICILLIN TREATMENT VIA THE BLOOD MEAL

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ADDITION OF AZITHROMYCIN TO SEASONAL MALARIA CHEMOPREVENTION (SMC+AZ) DOES NOT SIGNIFICANTLY AFFECT THE RELATIONSHIP BETWEEN GASTROENTERITIS AND UNDERNUTRITION

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(ACMCIP Abstract)

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(ACMCIP Abstract)

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IMMUNOLOGICAL CORRELATES OF PROTECTION FOR R21/MATRIXM™, A MALARIA VACCINE WITH HIGH-LEVEL EFFICACY

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FULLY SYNTHETIC NUCLEIC ACID PRIME-AND-TRAP VACCINATION IN A RODENT MALARIA MODEL

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(ACMCIP Abstract)

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(ACMCIP Abstract)

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(ACMCIP Abstract)

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Bacteriology - Enteric Infections

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ACUTE SYMMETRICAL POLYARTHRITIS - AN ATYPICAL PRESENTATION OF REACTIVE ARTHRITIS

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THE CHARACTERISTICS OF BACTEREMIA AMONG PATIENTS WITH ACUTE FEBRILE ILLNESS REQUIRING HOSPITALIZATION IN INDONESIA

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THE IMPACT OF THE COMMUNITY AND PUBLIC HEALTH RESPONSE TO COVID-19 ON PEDIATRIC TYPHOID SURVEILLANCE AND DETECTION IN MALAWI

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SERO-EPIDEMIOLOGY IN AFRICA OF INVASIVE NON-TYPHOIDAL SALMONELLOSIS (SAINTS STUDY); STUDY AIMS, DESIGN AND EARLY FINDINGS

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GENOMIC CHARACTERIZATION OF BACTERIA ISOLATED FROM FEBRILE PATIENTS IN GHANA

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Bacteriology – Trachoma

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COST AND COMMUNITY ACCEPTABILITY OF ENHANCED ANTIBIOTIC APPROACHES FOR TRACHOMA IN THE REPUBLIC OF SOUTH SUDAN: ENHANCING THE A IN SAFE (ETAS) STUDY PROTOCOL

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ADVANCING IN THE ELIMINATION OF TRACHOMA AS A CAUSE OF BLINDNESS: THE CASE OF SÃO PAULO METROPOLITAN AREA, BRAZIL

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SEROLOGIC RESPONSES WITHIN DISTRICTS EXPERIENCING PERSISTENT TRACHOMA, AMHARA, ETHIOPIA

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TACKLING TRACHOMA END GAME CHALLENGES AND FAST-TRACKING TRACHOMA ELIMINATION IN TANZANIA: LEVERAGING NEW APPROACHES TO SCALE UP SAFE INTERVENTIONS

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ADDRESSING TRICHIASIS SURGICAL DATA CHALLENGES FOR DOSSIER VALIDATION IN THE TRACHOMA ELIMINATION ENDGAME: EXPERIENCE FROM TANZANIA

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Clinical Tropical Medicine

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EXPERIENCES OF FAMILIES BENEFITING FROM COMMUNITY FUNDS FOR TRANSPORTATION STRATEGY IN MANHIÇA (MOZAMBIQUE)

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SNAKEBITES AND ENVENOMATION IN RURAL AREA IN MALI, WEST AFRICA

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UNEARTHING SPOTTED FEVER GROUP RICKETTSIOSES FOCI IN CENTRAL AMERICA

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CAT SCRATCH DISEASE (BARTONELLA HENSELAE INFECTION) MIMICKING MELIOIDOSIS IN AN IMMUNOSUPPRESSED THAI PATIENT WITH FEVER AND HEPATOSPLENIC LESIONS

Rapeephan Maude, Sofia Waeuseng, Korbkul Sutthi-arj
Ramathibodi hospital, Bangkok, Thailand

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EVALUATING ROUTINE IMMUNIZATION STRENGTHENING ACTIVITIES IN HAUT LOMAMI AND TANGANYIKA

Gloire Mbaka Onya[1], Nicole Hoff[2], Amine El Mourid[3], Dalau Nkamba[4], Sylvia Tangney[2], Angelica L Barrall[2], Nick Ida[2], Armand Mutwadi[4], Kamy Musene[1], Christophe Luhata[5], Didine Kaba[4], Anne W. Rimoin[2]
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PPE ACCESSIBILITY BEFORE AND DURING THE COVID19 PANDEMIC AMONG HEALTHCARE WORKERS IN THE DRC

Armand M. Mutwadi[1], Angelica L. Barrall[2], Dalau M. Nkamba[1], Didine K. Kaba[1], Nicole A. Hoff[2], Sylvia Tangney[2], Gloire O. Mbaka[3], Kamy Musene[3], Camille Dzogang[3], Christophe Luhata[4], Anne W. Rimoin[2]
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EVALUATION OF ARCHIVED AND CONTRIVED CLINICAL SPECIMENS WITH THE BIOFIRE® GLOBAL FEVER PANEL PLUS

Mark A. Gurling, Olivia Jackson, Jared R. Helm, David S. Rabiger, Alex Kelley, Pascal Belgique, Sidney Webster, Ashley Wiltsie, Michael Johnson, Wendy Smith, Diane Walker, Marianne Kim, Cynthia L. Phillips
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PREDICTORS OF SEVERITY IN ACUTE DENGUE INFECTION DURING THE 2019 EPIDEMIC IN BRAZIL

Barbara Ferreira dos Santos, Pedro H. Garcia, Rodrigo S. Rocha, Fernanda S. Dourado, Bruno H. Milhim, Gislaine Celestino Dutra Silva, Flora de Andrade Gandolfi, Mauricio Lacerda Nogueira, Cassia Fernanda Estofolete
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Gislaine Celestino Dutra Silva, Flora De Andrade Gandolfi, Bruno Henrique Goncalves De Aguiar Milhim, Barbara Ferreira Dos Santos, Victor Miranda Hernandes, Mauricio Lacerda Nogueira, Cassia Fernanda Estofolete
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PREVALENCE MAPPING OF MALARIA HELMINTH COINFECTION AMONG PRESCHOOL AND SCHOOL AGE CHILDREN LIVING IN A LOW MALARIA TRANSMISSION SETTING IN SENEGAL

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AN ASSESSMENT OF THE LABORATORY NETWORK IN GHANA: A NATIONAL-LEVEL ATLAS SURVEY, 2019-2020

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RICKETTSIOSES IDENTIFIED AS A CAUSE OF FEBRILE ILLNESS REQUIRING HOSPITALIZATION AT TWO HOSPITALS IN UGANDA

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DEVELOPING A SUSTAINABLE CARE MODEL FOR NEWLY ARRIVED REFUGEES- A PRIMARY CARE APPROACH

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A LONGITUDINAL COHORT AND BIOREPOSITORY IN BOSTON, MASSACHUSETTS TO ADDRESS KEY QUESTIONS IN CHAGAS DISEASE

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CLINICAL MARKERS OF POST-CHIKUNGUNYA CHRONIC INFLAMMATORY JOINT DISEASE

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Helminths - Nematodes - Filariasis (Cellular and Molecular Biology)

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THERAPEUTICAL APPLICATION OF A HALLOYSITE-BASED HYBRID HYDROGEL BIONANOCOMPOSITE FOR PARASITIC INFECTIONS

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(ACMCIP Abstract)

Helminths - Nematodes - Filariasis (Clinical)

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PHARMACOKINETIC ANALYSIS OF A SLOW-RELEASE FLUBENDAZOLE FORMULATION FOR THE TREATMENT OF GUINEA WORM INFECTION IN DOMESTIC DOGS

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EFFICACY OF ALBENDAZOLE AND IVERMECTIN BASED REGIMENS FOR THE TREATMENT OF MICROFILAREMIC LOIASIS IN ADULT PATIENTS IN GABON: A RANDOMIZED CONTROLLED ASSESSOR BLINDED CLINICAL TRIAL

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THE CBC WITH DIFFERENTIAL - A MISSED OPPORTUNITY: WHY PRIMARY CARE PHYSICIANS SHOULD ALWAYS LOOK AT THE DIFFERENTIAL

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PHARMACOKINETICS OF MOXIDECTIN AND IVERMECTIN IN COMBINATION TREATMENTS FOR BANCROFTIAN FILARIASIS

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POPULATION PHARMACOKINETICS OF MOXIDECTIN IN PATIENTS WITH LYMPHATIC FILARIASIS

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STRATEGIES FOR ADDRESSING PERSISTENT LYMPHATIC FILARIASIS IN HOT SPOT DISTRICTS: LESSONS LEARNED FROM SIERRA LEONE

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Helminths - Nematodes - Filariasis (Genetics/Genomics)

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IDENTIFICATION OF POLYMORPHIC MARKERS IN LOA LOA TO ASSESS THE MULTIPLICITY OF INFECTION

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(ACMCIP Abstract)

Helminths - Nematodes - Filariasis (Immunology)

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SEROLOGICAL RESPONSES TO FILARIAL ANTIGENS FROM POPULATION-BASED SURVEYS IN NORTH DARFUR STATE, SUDAN

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EFFECT OF FILARIAL LYMPHEDEMA TREATMENT WITH DOXYCYCLINE ON IMMUNE ACTIVATION AND EXHAUSTION FREQUENCIES IN BLOOD

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CYTOKINES RESPONSES TO IVERMECTIN TREATMENT OF LOW-TO-MODERATE L. LOA INFECTIONS DIFFER FROM W. BANCROFTI INFECTIONS, SUGGESTING ROLES FOR WOLBACHIA IN THE EMERGENCE OF POST-TREATMENT ADVERSE EVENTS IN FILARIAL INFECTIONS

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(ACMCIP Abstract)

Helminths - Nematodes - Filariasis (Other)

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ONCHOCERCIASIS DRUG DISCOVERY - EVALUATION OF FDA-APPROVED DRUGS AGAINST ONCHOCERCA GUTTUROSA *IN VITRO*.

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BIOMARKER DISCOVERY AND ASSAY DEVELOPMENT TO DETECT ANTIBODIES TO ONCHOCERCA VOLVULUS BASED ON OVCOL-1 AND OV7

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CONSIDERATION OF SCALE IN THE APPLICATION OF SPATIAL STATISTICAL MODELS TO IDENTIFY AREAS AND CLUSTERS OF RELATIVE LOW COVERAGE FROM A LYMPHATIC FILARIASIS MASS DRUG ADMINISTRATION CAMPAIGN IN LEOGANE AND GRESSIER, HAITI

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COVERAGE SURVEY OF LYMPHATIC FILARIASIS MASS DRUG ADMINISTRATION IN LEOGANE AND GRESSIER, HAITI, 2021: AN IMPORTANT TOOL TO ASSESS EFFECTIVE EPIDEMIOLOGICAL COVERAGE

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MEASURING THE OUTCOME OF THE MASS DRUGS ADMINISTRATION OF LYMPHATIC FILARIASIS THROUGH SENTINEL AND SPOT SITES SURVEYS FROM 2012 - 2021

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PRE-CLINICAL DEVELOPMENT OF CORALLOPYRONIN A - A NOVEL ANTIBIOTIC ACTIVE AGAINST WOLBACHIA ENDOSYMBIONTS OF FILARIAL NEMATODES

Kenneth Pfarr[1], Andrea Schiefer[1], Miriam Grosse[2], Anna Krome[3], Tim Becker[3], Stefan Kehraus[3], Alexandra Ehrens[1], Rolf Jansen[2], Gabriele M. König[3], Silke Alt[4], Rolf Müller[5], Thomas Hesterkamp[4], Marc P. Hübner[1], Marc Stadler[2], Karl G. Wagner[3], Achim Hoerauf[1]
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IMPACT OF MASS DRUG ADMINISTRATION FOR ELIMINATION OF LYMPHATIC FILARIASIS IN ABUJA NIGERIA

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BIOMARKER DISCOVERY AND ASSAY DEVELOPMENT TO DETECT ANTIBODIES SPECIFIC FOR WUCHERERIA BANCROFTI

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TAS EVALUATIONS IN MALI: STRATEGIC INNOVATIONS IN INSECURE AREAS

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THE FIRST PROSPECTION FOR VECTOR BREEDING SITES OF ONCHOCERCIASIS IN LIBERIA: IDENTIFYING PRODUCTIVE SITES OF SIMULIUM DAMNOSUM S.L. SPECIES IN 2018

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Pneumonia, Respiratory Infections and Tuberculosis

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NON-COMMUNICABLE DISEASE CO-MORBIDITY AND ASSOCIATED FACTORS IN TUBERCULOSIS PATIENTS: A CROSS-SECTIONAL STUDY IN GABON

Bayode Romeo Adegbite[1], Ronald Edoa[1], Pacome Achimi Agbo[1], Micheska Epola[1], Chester Mevyann[1], Jean-Claude Dejon-Agobé[1], Jeannot F Zinsou[1], Yabo J Honkpehedji[1], Stellah G Mpagama[2], Abraham S Alabi[1], Kerstin Klipstein-Grobusch[3], Ayola Akim Adegnika[1], Martin Grobusch[1]
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IMPACT OF PCVS ON COMMUNITY PNEUMOCOCCAL CARRIAGE PRE AND POST PCV VACCINE IMPLEMENTATION IN RURAL GAMBIA

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COVID-19 EXPOSURE, TESTING, AND QUARANTINE BEHAVIORS AMONG HEALTHCARE PROVIDERS SUPPORTING HIV SERVICES IN FOUR NIGERIA MILITARY HEALTH FACILITIES

Ismail Olajide Lawal[1], Usman Adekanye[2], Ayesha Rashid[3], Catherine Godfrey[4], Yakubu Adamu[1], Patricia Agaba[3], Laura Chittenden[1], Nathan Okeji[2], Priyanka Desai[3], Elizabeth Lee[5]
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INVASIVE ASPERGILLOSIS MIMICKING PULMONARY TUBERCULOSSIS

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MONITORING THE PEDIATRICIANS' CLINICAL DECISION FOR THE DIAGNOSIS OF PULMONARY TUBERCULOSIS AMONG CHILDREN WITH 'XPERT MTB/RIF ULTRA - TRACE DETECTED' IN STOOL SAMPLE

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CONNAISSANCES, ATTITUDES, PRATIQUES, SENSIBILISATION DE LA POPULATION GÉNÉRALE FACE AU COVID19 ET À LA PRÉVALENCE DES PORTEURS DE COMORBIDITÉS DANS LE GRAND LIBREVILLE AU GABON

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IMPROVING COVID-19 VACCINE UPTAKE THROUGH INTEGRATED COMMUNITY OUTREACH SERVICES IN NIGERIA

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DIAGNOSTIC PERFORMANCE OF SARS COV2 ANTIGEN BASED RAPID TEST FOR TRIAGE USE OF COVID-19 SYMPTOMATIC PATIENTS IN INDONESIA

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SPATIAL AND TEMPORAL TRENDS OF PNEUMONIA DUE TO METHICILLIN-SUSCEPTIBLE AND RESISTANT STAPHYLOCOCCUS AUREUS IN TEXAS

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INCIDENCE AND SOCIAL DETERMINANTS OF TUBERCULOSIS IN PATIENTS FROM THE COHORT OF 100 MILLION BRAZILIANS: A POPULATION-BASED STUDY (2004 TO 2018)

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ELEVATED SARS-COV-2 VIRAL LOADS IN A DIVERSE COHORT OF HOSPITALIZED PATIENTS IN NEW MEXICO PREDICTS SEVERE COVID-19 AND MORTALITY

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DISPROPORTIONALITY ELEVATED SEVERE COVID-19 AND MORTALITY IN HOSPITALIZED AMERICAN INDIAN/ALASKA NATIVE PATIENTS

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STRUCTURAL RISK FACTORS FOR SARS-COV-2 INFECTION IN AN URBAN SLUM SETTING

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VARIATIONS OF THE NASOPHARYNGEAL MICROBIOTA ACCORDING TO SEVERITY STATES OF COVID-19

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CLINICAL AND LABORATORY CHARACTERISTICS OF PATIENTS WITH COVID 19 IN PANAMA: A RETROSPECTIVE OBSERVATIONAL STUDY

Santiago Hernandez, Jeegan Parikh, Audry Belen, Arlene Calvo, Abraham Salinas-Miranda, Ismael Hoare, Ricardo Izurieta, Ana Belén Araúz
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LAG ASSOCIATIONS OF EXPOSURE TO AIR POLLUTANTS AND SYMPTOMS OF ACUTE RESPIRATORY INFECTIONS IN CHILDREN IN SOUTH AFRICA 2016

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RELIABLE ESTIMATION OF SARS-COV-2 ANTI-SPIKE PROTEIN IGG TITERS FROM SINGLE DILUTION ELISA OPTICAL DENSITY VALUES IN SEROEPIDEMIOLOGICAL SURVEYS

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UNDERESTIMATION OF TUBERCULOSIS MORTALITY IN RESEARCH PARTICIPANTS CAUSED BY CONSENT BIAS

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Schistosomiasis and Other Trematodes – Epidemiology and Control

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THE BURDEN OF UROGENITAL SCHISTOSOMIASIS AMONG PATIENTS PRESENTING WITH SIGNS AND SYMPTOMS OF SEXUAL TRANSMITTED DISEASES

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INSIGHTS INTO ENVIRONMENTAL DETERMINANTS OF SOIL-TRANSMITTED HELMINTHS TRANSMISSION USING GPS TRACKING TECHNOLOGY

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UNDERSTANDING THE SOCIO-CULTURAL DETERMINANTS OF HEALTH-SEEKING BEHAVIORS AND HEALTH INFORMATION TRUST AMONG WOMEN AT-RISK FOR FEMALE GENITAL SCHISTOSOMIASIS IN GHANA: A MIXED-METHOD STUDY

Kruti Patel[1], Kazeem Arogundade[2], Maxwell Ayindenaba Dalaba[3], Mustapha Immurana[3], Julie Jacobson[4], Margaret Gyapong[3], Alison Krentel[2]
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ASSOCIATION BETWEEN SERUM LIPID PROFILE AND LIVER FIBROSIS IN PATIENTS WITH SCHISTOSOMIASIS JAPONICUM

Yang Liu, Pengpeng Zhang, Junhui Li, Hao Li, Chen Zhou, Yu Zhang, Yingzi Ming
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MIXED METHODS EVALUATION OF THE TRANSITION TO GOVERNMENT OWNERSHIP OF SCHISTOSOMIASIS AND SOIL TRANSMITTED HELMINTH CONTROL PROGRAMS ACROSS FOUR STATES IN NIGERIA: BASELINE RESULTS

Jayden Pace Gallagher[1], Jenna E. Coalson[2], Emily Griswold[1], Emmanuel Emukah[3], Abel Eigege[4], Lindsay Rakers[2], Emmanuel Miri[3], Gregory S. Noland[2]
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AN EXCEL BASED TOOL FOR MONITORING THE SCHISTOSOMIASIS AND SOIL-TRANSMITTED HELMINTHIASIS PROGRAM

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COMMUNITY AWARENESS AND KNOWLEDGE ON SCHISTOSOMIASIS AND FEMALE GENITAL SCHISTOSOMIASIS (A NEGLECTED SEXUAL AND REPRODUCTIVE HEALTH ISSUE): FINDINGS FROM THE FAST PACKAGE BASELINE ASSESSMENT IN GHANA AND MADAGASCAR

Alison Krentel[1], Mbolatiana Raharinivo[2], Kazeem Arogundade[1], Mustapha Immurana[3], Kruti Patel[4], Maxwell Dalaba[3], Faly Randrianasolo[2], Clara Fabienne Rasoamanamihaja[5], Joseph Opare[6], Caroline Pentossi[7], Isis Umbelino[8], Julie Jacobson[8], Margaret Gyapong[3]
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TEMPORAL DYNAMICS OF SCHISTOSOMA MANSONI INFECTIONS AND ACHIEVING ELIMINATION AS A PUBLIC HEALTH PROBLEM IN LOW PREVALENCE SETTINGS WHEN ACCOUNTING FOR HUMAN MOBILITY

Jessica Clark[1], Arinaitwe Moses[2], Andrina Nankasi[2], Annet Namukuta[2], Alon Atuhire[2], Poppy H. L. Lamberton[3]
[1]Wellcome Centre for Integrative Parasitology, Institute of Biodiversity, Animal Health & Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, [2]Vector Control Division, Ministry of Health, Kampala, Uganda, [3]1. Wellcome Centre for Integrative Parasitology, Institute of Biodiversity, Animal Health & Comparative Medicine, University of Glasgow, Glasgow, United Kingdom

1703

IDENTIFYING SUITABLE ENVIRONMENTAL PREDICTORS OF SCHISTOSOMA JAPONICUM INFECTION IN RURAL CHINA

Elise N. Grover[1], Andrea J. Lund[1], Yang Liu[2], Elizabeth J. Carlton[1]
[1]University of Colorado School of Public Health, Aurora, CO, United States, [2]Sichuan Center for Disease Control and Prevention, Chengdu, China

1704

SCHISTOSOMIASIS AS A COMPONENT OF THE FOOD-ENERGY-WATER NEXUS IN DAMMED ENVIRONMENTS: A CASE STUDY OF THE SENEGAL RIVER BASIN

Andrea Lund[1], Elise Harrington[2], Tamee R. Albrecht[3], Tejasvi Hora[4], Rebecca E. Wall[5], Tihitina Andarge[3]
[1]Colorado School of Public Health, Aurora, CO, United States, [2]University of Minnesota, Minneapolis, MN, United States, [3]University of Massachusetts, Amherst, Amherst, MA, United States, [4]University of Waterloo, Waterloo, ON, Canada, [5]Hamilton College, Clinton, NY, United States

1705

INTEGRATING GENOMIC AND EPIDEMIOLOGIC DATA TO ACCELERATE PROGRESS TOWARDS SCHISTOSOMIASIS ELIMINATION

Andrea J. Lund[1], Kristen J. Wade[2], Zachary L. Nikolakis[3], Kathleen Ivey[3], Blair W. Perry[3], Hamish Pike[2], Sara H. Paull[1], Yang Liu[4], Todd A. Castoe[3], David D. Pollock[2], **Elizabeth J. Carlton**[1]
[1]Colorado School of Public Health, Aurora, CO, United States, [2]University of Colorado School of Medicine, Aurora, CO, United States, [3]University of Texas at Arlington, Arlington, TX, United States, [4]Sichuan Centers for Disease Control and Prevention, Chengdu, China

Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology

1706

SCHISTOSOMA MANSONI TAL-9 PROTEIN IS A CANDIDATE FOR DRUG TARGET AND VACCINE DEVELOPMENT

Wilma Patricia de Oliveira Santos Bernardes, Isabela Thamara Xavier Dutra, Marina Moraes Mourao, Rosiane Aparecida da Silva-Pereira, Cristina Toscano Fonseca
Rene Rachou Institute - FIOCRUZ, Belo Horizonte, Brazil

(ACMCIP Abstract)

1707

PARAGONIMUS KELLICOTTI EXCRETION/SECRETION PRODUCTS: COMPARATIVE PROTEOMICS OF *IN VITRO* AND *IN VIVO* RELEASE

Lucia S. Di Maggio, Kurt C. Curtis, R. Reid Townsend, Gary J. Weil, Peter U. Fischer
Washington University in Saint Louis, Saint Louis, MO, United States

(ACMCIP Abstract)

1708

THE PROTECTIVE EFFECT OF THE SOLUBLE EGG ANTIGEN OF SCHISTOSOMA JAPONICUM IN MOUSE SKIN TRANSPLANTATION MODEL

Junhui Li, Jie Jiang, Yu Zhang, Yingzi Ming
The 3rd Xiangya Hospital of Central South University, Changsha, China

Schistosomiasis and Other Trematodes – Immunology, Pathology, Cellular and Molecular Biology

1709

AN EXERCISE IN RIGOR: COMPARING FECAL MICROBIOME PERTURBATIONS CAUSED BY ESTABLISHMENT OF CHRONIC SCHISTOSOMA MANSONI INFECTIONS IN MICE AT TWO INDEPENDENT UNIVERSITIES

Mariam A. Mhanna, Lisa M. Shollenberger
Old Dominion University, Norfolk, VA, United States

(ACMCIP Abstract)

1710

A VACCINE FOR INTESTINAL SCHISTOSOMIASIS USING AN ADENOVIRUS VECTOR EXPRESSING SCHISTOSOMA MANSONI CATHEPSIN B AND ADDAVAX ADJUVANTED PROTEIN BOOSTS

Sunny Liu[1], **Dilhan J. Perera**[1], Renald Gilbert[2], Risini D. Weeratna[3], Momar Ndao[1]
[1]Research Institute McGill University Health Centre, Montreal, QC, Canada, [2]National Research Council Canada; Human Health Therapeutics Research Center, Montreal, QC, Canada, [3]National Research Council Canada; Human Health Therapeutics Research Center, Ottawa, ON, Canada

(ACMCIP Abstract)

1711

THE SNAIL BIOMPHALARIA GLABRATA AS A MODEL ORGANISM TO INVESTIGATE THE MOLECULAR BASIS OF TAU PROTEIN EXPRESSION IN AGEING

Simone Parn, Mathilde Knight
University of the District of Columbia, Washington, DC, United States

(ACMCIP Abstract)

1712

SINGLE-CELL RNA SEQUENCING REVEALS A PERIPHERAL LANDSCAPE OF IMMUNE CELLS IN SCHISTOSOMIASIS JAPONICA

Yu Zhang, Hao Li, Junhui Li, Yingzi Ming
The Third Xiangya Hospital, Central South University, Changsha, China

(ACMCIP Abstract)

1713

SOLUBLE EGG ANTIGEN OF SCHISTOSOMA JAPONICUM INDUCES DIFFERENTIATION OF MYELOID-DERIVED SUPPRESSOR CELLS TO SUPPRESS HOST IMMUNITY

Bo Peng, **Yulin Yulin Luo**, Yu Zhang, Kai Liu, Junhui Li, Yingzi Ming
The Third Xiangya Hospital, Central South University, Changsha, Hunan, China, Changsha, China

1714

NEONATAL IMMUNOLOGICAL ENVIRONMENTS COULD ALTER THE CELLULAR IMMUNE RESPONSES TO CHILDHOOD VACCINES

Indu Malhotra[1], Ruth Nyakundi[2], Ronald Ottichilo[3], Thomas Kariuki[4], A. Desiree LaBeaud[5], Christopher L. King[1], Charles H. King[1]
[1]Case Western Reserve University, Cleveland, OH, United States, [2]Institute of Primate Research, National Museums of Kenya, Kenya, [3]Ministry of Public Health and Sanitation, Nairobi, Kenya, [4]The Alliance for Accelerating Excellence in Science in Africa, Nairobi, Kenya, [5]Stanford School of Medicine, Stanford, CA, United States

(ACMCIP Abstract)

1715

GUT MICROBIOTA SIGNATURES IN SCHISTOSOMA JAPONICUM INFECTION PATIENTS

Chen Zhou, YingZi Ming, JunHui Li
The third XiangYa hospital of Central Sourth University, Changsha, China

1716

MACROPHAGES REGULATE THE FORMATION OF SCHISTOSOMA JAPONICUM GRANULOMA THROUGH MODULATING LYMPHANGIOSIS

Chen Guo, Junhui Li, Pengpeng Zhang, Yingzi Ming
The Third Xiangya Hospital, Central South University, Changsha, China

1717

THE PROGRESSION OF SCHISTOSOMIASIS JAPONICA EXPRESS DIFFERENT IMMUNE STATES

Zhaoqin Zhou, Junhui Li, Yingzi Ming, Yulin Luo, Chen Guo
Transplantation Center, The Third Xiangya Hospital, Central South University, Changsha, Hunan, China, China

1718

WHOLE PROTEOME DIFFERENTIAL SCREENING IDENTIFIES HELMINTH DEFENSE MOLECULE AS NOVEL SCHISTOSOMIASIS JAPONICA VACCINE CANDIDATE

Amanda E. Ruiz[1], Sunthorn Pond-Tor[1], Ronald Stuart[1], Mario Jiz[2], Blanca Jarilla[2], Jennifer Friedman[1], Hai Wei Wu[1], Jonathan D. Kurtis[1]
[1]Brown University, Providence, RI, United States, [2]Research Institute of Tropical Medicine, Manila, Philippines

Clinical Group Past Presidents Meeting

Convention Center - Room 209 (2nd Floor)

Wednesday, November 2, 11:15 a.m. - 12:30 p.m. U.S. Pacific Time Zone

Late-Breaker Abstract Session 103

Late-Breakers in Malaria

Convention Center - Room 6AB (6th Floor)
Wednesday, November 2, 11:15 a.m. - 12:30 p.m. U.S. Pacific 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.

Session does not carry CME credit.

CHAIR

Carol H. Sibley
University of Washington, Seattle, WA, United States

Shannon Takala Harrison
University of Maryland School of Medicine, Baltimore, MD, United States

Karl Seydel
Michigan State University, East Lansing, MI, United States

Late-Breaker Abstract Session 104

Late-Breakers in Virology

Convention Center - Room 6C (6th Floor)
Wednesday, November 2, 11:15 a.m. - 12:30 p.m. U.S. Pacific 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.

Session does not carry CME credit.

CHAIR

Noreen A. Hynes
Johns Hopkins School of Medicine, Baltimore, MD, United States

Wei-Kung Wang
University of Hawaii, Honolulu, HI, United States

Poster Session C Viewing

Convention Center - Room 4A (4th Floor)
Wednesday, November 2, 12:45 p.m. – 4 p.m. U.S. Pacific Time Zone

Scientific Session 105

Malaria: *Plasmodium* Genetics and Genomic Epidemiology across Species

Convention Center - Room 6AB (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR

Jessica Lin
University of North Carolina at Chapel Hill , Chapel Hill, NC, United States

Victor Asua
Infectious Diseases Research Collaboration, Kampala, Uganda

12:45 p.m. **1719**

A HIGH-THROUGHPUT PHENOTYPIC SCREEN UNRAVELS *PLASMODIUM FALCIPARUM* GENES ESSENTIAL FOR GAMETOCYTE DEVELOPMENT

Jyotsna Chawla[1], Jenna Oberstaller[1], Min Zhang[1], Chengqi Wang[1], Camilla V. Pires[1], Shulin Xu[1], Lauriane Sollelis[2], Andreas Seyfang[1], Thomas D. Otto[2], Julian C. Rayner[3], Matthias Marti[2], John Adams[1]
[1]University of South Florida, Tampa, FL, United States, [2]Institute of Infection, Immunity, and Inflammation, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow, United Kingdom, [3]Cambridge Institute for Medical Research, University of Cambridge, Cambridge,, United Kingdom

(ACMCIP Abstract)

1 p.m. **1720**

DCIFER: AN IBD-BASED METHOD TO CALCULATE GENETIC DISTANCE BETWEEN POLYCLONAL MALARIA INFECTIONS

Inna Gerlovina, Boris Gerlovin, Isabel Rodriguez-Barraquer, Bryan Greenhouse
University of California, San Francisco, San Francisco, CA, United States

1:15 p.m. **1721**

EMERGENCE AND EXPANSION OF *P. FALCIPARUM* WITH PFK13 POLYMORPHISMS ASSOCIATED WITH ARTEMISININ RESISTANCE IN UGANDA

Victor Asua[1], Melissa D. Conrad[2], Jenny Legac[2], Deborah Chin[3], David Giesbrecht[3], Sawyer Smith[3], Emmanuel Arinaitwe Arinaitwe[1], Shreeya Garg[2], Patrick Tumwebaze[1], Roland Cooper[4], Adoke Yeka[1], Moses R. Kamya[1], Grant Dorsey[2], Sam L. Nsobya[1], Jeff Bailey[3], Philip J. Rosenthal[2]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]University of California San Francisco, San Francisco, CA, United States, [3]Brown University, Providence, RI, United States, [4]Dominican University of California, San Rafael, CA, United States

1:30 p.m. 1722

DELETION-DUPLICATION EVENT MAY EXPLAIN GEOGRAPHICAL DIFFERENCES IN *PLASMODIUM FALCIPARUM* WITH HISTIDINE-RICH PROTEIN 3 DELETION

Isaac Elijah Kim[1], Nicholas J. Hathaway[2], Neeva Wernsman Young[3], David Giesbrecht[4], Jonathan J. Juliano[5], Jonathan B. Parr[6], Jeffrey A. Bailey[7]
[1]Center for Computational Molecular Biology and Warren Alpert Medical School, Brown University, Providence, RI, United States, [2]Department of Medicine, University of Massachusetts Chan Medical School, Worcester, MA, United States, [3]Department of Molecular Pharmacology, Physiology and Biotechnology, Brown University, Providence, RI, United States, [4]Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, United States, [5]Department of Epidemiology, Division of Infectious Diseases, and Curriculum in Genetics and Molecular Biology, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [6]Curriculum in Genetics and Molecular Biology and Division of Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [7]Center for Computational Molecular Biology and Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, United States

1:45 p.m. 1723

UNDERSTANDING THE GENOMIC DIVERSITY OF *PLASMODIUM VIVAX* RELAPSES IN THE SOLOMON ISLANDS

Caitlin Bourke, Shazia Ruybal Pesántez, Jiru Han, Jacob Munro, Robert James, Aaron Jex, Harin Karunajeewa, Melanie Bahlo, Ivo Mueller
Walter and Eliza Hall Institute, Parkville, Australia

2 p.m. 1724

POPULATION GENOMICS OF *PLASMODIUM* OVALEIN SUB-SAHARAN AFRICA

Kelly Carey-Ewend[1], Bhai Rajasekar[1], Zachary Popkin-Hall[1], Meredith Muller[1], Chris Hennelly[1], Kara Moser[1], Claudia Gaither[1], Srijana B. Chhetri[1], Karamoko Naire[2], Fernandine Phanzu[3], Kashamuka Mwandagalirwa[4], Hillary Topazian[5], Innocent Mbulli Ali[6], Billy Ngasala[7], Albert Kalonji[3], Antoinette Tshefu[4], Jeffrey Bailey[2], Jonathan Parr[1], Jonathan Juliano[1], Jessica Lin[1]
[1]Institute of Global Health and Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Department of Pathology and Laboratory Medicine, Warren Alpert Medical School, Brown University, Providence, RI, United States, [3]SANRU asbl, Kinshasa, Democratic Republic of the Congo, [4]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [5]Imperial College, London, United Kingdom, [6]University of Dschang, Dschang, Cameroon, [7]Department of Parasitology and Medical Entomology, Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania

2:15 p.m. 1725

PARASITE GENETIC RISK FACTORS FOR EMERGING *PLASMODIUM KNOWLESI* MALARIA

Jacob A F Westaway[1], Sarah Auburn[1], Ernest D. Benavente[2], Sourav Nayak[3], Timothy William[4], Giri S. Rajahram[5], Nicholas M. Anstey[1], Bridget E. Barber[1], Chris Drakeley[6], Roberto Amato[7], Zbynek Bozdech[3], Matthew Field†[8], Matthew J. Grigg†[1]
[1]Menzies School of Health Research, Darwin, Australia, [2]University Medical Center Utrecht, Utrecht, Netherlands, [3]Nanyang Technological University, Singapore, Singapore, [4]Infectious Disease Society Kota Kinabalu, Sabah, Malaysia, [5]Queen Elizabeth Hospital-Clinical Research Centre, Ministry of Health, Sabah, Malaysia, [6]London School of Hygiene & Tropical Medicine, London, United Kingdom, [7]Wellcome Sanger Institute, Hinxton, United Kingdom, [8]Centre of Tropical Bioinformatics and Molecular Biology, James Cook University, Cairns, Australia

Scientific Session 106

Global Health: Planetary Health

Convention Center - Room 6C (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR

Julie Powers
UC Berkeley, Berkeley, CA, United States

Andres G. Lescano
Universidad Peruana Cayetano Heredia, Lima, Peru

12:45 p.m. 1726

URBAN RIFT VALLEY FEVER VIRUS AS A NEW ECOLOGICAL NICHE: INTRODUCTION FROM ANIMAL PRODUCTS

Keli Gerken[1], Bryson Alberto Ndenga[2], Kevin Christian Owuor[2], Christabel Achieng Winter[2], Francis Maluki Mutuku[3], Krish Seetah[4], A. Desiree D. LaBeaud[5]
[1]Stanford University School of Medicine, Pikeville, NC, United States, [2]Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, [3]Technical University of Mombasa, Mombasa, Kenya, [4]Stanford University Department of Anthropology, Stanford, CA, United States, [5]Stanford University School of Medicine, Stanford, CA, United States

1 p.m. 1727

ASSESSING THE EFFECTS OF MINING PROJECTS ON CHILD HEALTH IN SUB-SAHARAN AFRICA: A MULTI-COUNTRY ANALYSIS

Herminio Cossa[1], Dominik Dietler[2], Eusébio Macete[1], Khátia Munguambe[1], Mirko S. Winkler[2], Günther Fink[2]
[1]Manhica Health Reseach Center, Maputo, Mozambique, [2]Swiss Tropical and Public Health Institute, Basel, Switzerland

1:15 p.m. 1728

EFFECTS OF AMBIENT TEMPERATURE AND HEAVY PRECIPITATION ON DRINKING WATER QUALITY AND CHILD HAND CONTAMINATION LEVELS IN KENYAN HOUSEHOLDS

Julie E. Powers[1], Jenna Swarthout[2], MaryAnne Mureithi[3], Joseph Pajka[2], Clair Null[4], Amy J. Pickering[1]
[1]UC Berkeley, Berkeley, CA, United States, [2]Tufts University, Medford, MA, United States, [3]Innovations for Poverty Action, Nairobi, Kenya, [4]Mathematica, Washington, DC, United States

1:30 p.m. 1729

HEALTH DISPARITIES AMONG PACIFIC ISLANDERS OF THE PACIFIC ISLAND COUNTRIES AND TERRITORIES OF THE WESTERN PACIFIC: PRIORITIES FOR RESEARCH AND ACTION ON CHLAMYDIA TRACHOMATIS AND NEISSERIA GONORRHOEAE SEXUALLY TRANSMITTED INFECTIONS

Isabella C. Auchus[1], Mike Kama[2], Redwan Al-Karim Bhuiyan[2], Joelle Brown[1], Deborah Dean[1]
[1]University of California, San Francisco School of Medicine, San Francisco, CA, United States, [2]Ministry of Health and Medical Services, Suva, Fiji

1:45 p.m. 1730

EFFECTS OF HYDROMETEOROLOGICAL FACTORS ON COVID-19 REPRODUCTION NUMBER IN THREE CONTIGUOUS COUNTRIES OF TROPICAL ANDEAN SOUTH AMERICA: A SPATIOTEMPORALLY DISAGGREGATED TIME SERIES ANALYSIS

Josh Michael Colston[1], Margaret Kosek[1], Benjamin Zaitchik[2], Hamada Badr[2], Lauren Gardner[2]
[1]University of Virginia School of Medicine, Charlottesville, VA, United States, [2]Johns Hopkins University, Baltimore, MD, United States

2 p.m. 1731

THE IMPACT OF COVID_19 ON MIGRATION AND RESIDENCE PATTERNS IN A LARGE TOWNSHIP IN JOHANNESBURG, SOUTH AFRICA

Pedzisai Ndagurwa, Dineo Thaele, Nyasha Mutanda, Shabir Madhi, Portia Mutevedzi
University of the Witwatersrand, Vaccines and Infectious Diseases Analytics (Wit, Johannesburg, South Africa

2:15 p.m. 1732

THE ROLE OF UNIVERSAL HEALTHCARE COVERAGE IN BUILDING RESILIENCE AGAINST PUBLIC HEALTH CRISES: A CASE STUDY OF THE COVID-19 PANDEMIC AND CHILDHOOD IMMUNIZATION COVERAGE

Sooyoung Kim, Tyler Headley, Yesim Tozan
New York University School of Global Public Health, New York, NY, United States

Symposium 107

Genomic Surveillance Capacity Building for Global Health: Challenges and Recommendations

Convention Center - Room 6E (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

Genome sequencing of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has taken place since the beginning of the COVID-19 pandemic, contributing to an understanding of viral evolution and enabling genomic epidemiology investigations into disease transmission and spread. The emergence of novel SARS-CoV-2 Variants of Concern, which can be associated with higher transmissibility, more severe disease or other observable impact on virus biology, has brought to the forefront the need for strong genomic surveillance capacity globally. This symposium will showcase the experience and insights from genomic capacity building efforts in multiple low- and middle-income country (LMIC) settings, and then present a framework for broader implementation of next-generation sequencing. The framework has potential utility in guiding countries in prioritizing activities to strengthen genomic surveillance, resource allocation, and monitoring of progress at global and regional levels. The framework could also support in-country planning and implementation of sequencing-based surveillance, and assist global health agencies, ministries of health, donors, and implementers to coordinate investments and identify partnerships to strengthen sequencing for SARS-CoV-2 and other important pathogens. Ultimately, sequencing technology investments for COVID-19 can and should be leveraged for scalable and sustainable genomic surveillance for global health needs well beyond the pandemic.

CHAIR
Anita Suresh
FIND, Geneva, Switzerland

12:45 p.m.
INTRODUCTION

12:50 p.m.
GLOBAL MAPPING OF SEQUENCING CAPACITY AND CONSIDERATIONS FOR IMPLEMENTATION
Swapna Uplekar
FIND, Geneva, Switzerland

1:10 p.m.
SEQUENCING AND BIOBANKING OF SARS-COV-2 SAMPLES IN PERU
Cesar Ugarte-Gil
Universidad Peruana Cayetano Heredia, Lima, Peru

1:30 p.m.
COVID-19 GENOMIC SURVEILLANCE IN BOTSWANA
Sikhulile Moyo
Botswana Harvard HIV Reference Laboratory, Gabarone, Botswana

1:50 p.m.
PATHOGEN GENOMICS CAPACITY BUILDING IN BANGLADESH
Senjuti Saha
Child Health Research Foundation, Dhaka, Bangladesh

Symposium 108

LIVE STREAMING Vaccines that Interrupt Malaria Transmission (VIMT) – Development, Evaluation and Implementation

Convention Center - Room 602/603/604 (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

Building on the unprecedented success of malaria vaccines over the last decade, the concept of vaccines that interrupt malaria transmission (VIMT), which includes transmission blocking vaccines (TBV) that target the sexual and mosquito stages and anti-infection vaccines (AIV) that can also impact transmission, used alone or in combination, is no longer a theoretical discussion but a tangible future. In preparation for these seminal studies, discussions regarding the strategic path forward to develop, evaluate and implement VIMTs is needed now. In a series of talks by experts in this field, this symposium plans to address key questions regarding: regulatory and implementation pathways, identification of immunological and entomological vaccine-induced endpoints, applicability to other Plasmodium species, and how VIMT success is defined. Each presenter will provide an overview on prior experience exploring some these concepts in prior and current projects, but also will discuss important concepts to

explore in future VIMT clinical trials. Ample time will be provided at the end of the symposium to promote Q&A and discussion from the audience.

CHAIR

Sara A. Healy
NIH/NIAID/LMIV, Bethesda, MD, United States

Katharine A. Collins
Radboud University Medical Center, Nijmegen, Netherlands

12:45 p.m.
INTRODUCTION

12:55 p.m.
OVERVIEW OF AIV + TBV SUCCESS AND THE PATH TO DEVELOPMENT OF VIMTS

David C. Kaslow
PATH Malaria Vaccine Initiative, Washington, DC, United States

1:10 p.m.
EVALUATING AIV + TBV IN THE FIELD

Alfred B. Tiono
Groupe de Recherche Action en Santé (GRAS), Ouagadougou, Burkina Faso

1:25 p.m.
EXPLORING ENTOMOLOGICAL ENDPOINTS FOR VACCINE EFFICACY

Daman Sylla
Malaria Research and Training Center (MRTC) /International Center for Excellence in Research (ICER-MALI) at the University of Sciences, Techniques and Technologies of Bamako (USTTB), Bamako, Mali

1:40 p.m.
USING MODELLING TO INFORM THE EVALUATION AND IMPLEMENTATION OF MULTISTAGE MALARIA VACCINE (AIV+TBV)

Thomas S. Churcher
Imperial College London, London, United Kingdom

1:55 p.m.
VIMT FOR *P. VIVAX* – UNIQUE FEATURES AND CHALLENGES

John Woodford
LMIV/NIAID/NIH, Bethesda, MD, United States

Scientific Session 109

Bacteriology: Enteric Infections – V. cholerae and E. coli

Convention Center - Room 605/610 (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR

Sonia T. Hegde
Johns Hopkins University, Baltimore, MD, United States

Karen Levy
University of Washington, Seattle, WA, United States

12:45 p.m. **1733**

CHOLERA SURVEILLANCE IN BANGLADESH: RISK FACTOR ANALYSIS ALONG WITH ANTIMICROBIAL RESISTANT PATTERN FOR THE YEAR 2014-2021

Md. Taufiqul Islam[1], Ashraful Islam Khan[1], Sonia Tara Hegde[2], Zahid Hasan Khan[1], Ishtiakul Islam Khan[1], Mohammad Ashraful Amin[1], Mokibul Hassan Afrad[1], Zakir Hossain Habib[3], M. Salimuzzaman[3], Md Taufiqur Rahman Bhuiyan[1], Kamrul Islam[1], Yasmin Ara Begum[1], Nigel A. J. McMillan[4], Andrew S. Azman[2], Tahmina Shirin[3], Firdausi Qadri[1]
[1]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [2]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Institute for Epidemiology, Disease Control and Research, Dhaka, Bangladesh, [4]Menzies Health Institute Queensland and School of Pharmacy and Medical Science, Griffith University, Gold Coast, Australia

1 p.m. **1734**

REVISITING CULTURE AS A DIAGNOSTIC IN THE ERA OF ENDING CHOLERA ROADMAP

Sonia T. Hegde[1], Taufiqur Rahman Bhuiyan[2], Taufiqul Islam[2], Juan Dent Hulse[1], Zahid Hasan Khan[2], Ishtiakul Islam Khan[3], Shakeel Ahmed[3], Md Mamunur Rashid[3], Rumana Rashid[3], Emily S. Gurley[1], Ashraful Islam Khan[2], Andrew S. Azman[1], Firdausi Qadri[2]
[1]Johns Hopkins University, Baltimore, MD, United States, [2]icddr,b, Dhaka, Bangladesh, [3]Bangladesh Institute of Tropical and Infectious Diseases, Chattogram, Bangladesh

1:15 p.m. **1735**

MODELING THE IMPACT OF TREATING MODERATE CHOLERA DISEASE WITH ANTIBIOTICS ON COMMUNITY TRANSMISSION

Sharia M. Ahmed[1], Iza Ciglenecki[2], Andrew Azman[3], Daniel T. Leung[1], Lindsay T. Keegan[1]
[1]University of Utah, Salt Lake City, UT, United States, [2]Medecins sans Frontieres, Geneva, Switzerland, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1:30 p.m. **1736**

EPIDEMIOLOGY OF ENTEROTOXIGENIC ESCHERICHIA COLI AND IMPACT ON CHILDREN IN THE FIRST 2 YEARS OF LIFE IN PERU

Monica J. Pajuelo[1], Sassan Noazin[2], Lilia Cabera[3], Angie Toledo[1], Mirza Velagic[2], Jessica Brubaker[2], Lucero Arias[1], Mayra Ochoa[1], Larry Moulton[2], Mayuko Saito[4], Robert H. Gilman[2], **Subhra Chakraborty**[2]
[1]Laboratorio Microbiología Molecular - Laboratorios de Investigación y Desarrollo, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, [3]Asociación Benéfica Prisma, Lima, Peru, [4]Department of Virology, Tohoku University Graduate School of Medicine, Sendai, Japan

1:45 p.m. **1737**

POPULATION GENOMICS OF DIARRHEAGENIC ESCHERICHIA COLI UNCOVERS HIGH CONNECTIVITY BETWEEN URBAN AND RURAL COMMUNITIES IN ECUADOR

Andrew Rothstein[1], Kelsey Jesser[1], Kostas Konstantinidis[2], Gabriel Trueba[3], **Karen Levy**[1]
[1]University of Washington, Seattle, WA, United States, [2]Georgia Institute of Technology, Atlanta, GA, United States, [3]Universidad San Francisco de Quito, Quito, Ecuador

2 p.m. **1738**

T HELPER CELL RESPONSES IN ADULT DIARRHOEAL PATIENTS FOLLOWING NATURAL INFECTION WITH ENTEROTOXIGENIC ESCHERICHIA COLI ARE PRIMARILY OF THE TH17 AND TFH TYPES

Marjahan Akhtar[1], Salima Raiyan Basher[1], Nuder Nower Nizam[1], Lazina Hossain[1], Taufiqur Rahman Bhuiyan[1], Firdausi Qadri[1], Anna Lundgren[2]
[1]icddr,b, Dhaka, Bangladesh, [2]University of Gothenburg, Gothenburg, Sweden

2:15 p.m. **1739**

EFFECTS OF EARLY-LIFE FEEDING PRACTICES ON CHILDREN'S ACQUISITION OF EXTENDED-SPECTRUM B-LACTAMASE (ESBL)-PRODUCING ENTEROBACTERIACEAE IN AN URBAN INFORMAL SETTLEMENT OF LIMA, PERU

Maya L. Nadimpalli[1], Luismarcelo Rojas Salvatierra[2], Subhra Chakraborty[3], Lucero Arias[2], Jenna M. Swarthout[1], Mayra Ochoa[2], Lilia Z. Cabrera[4], Amy J. Pickering[5], Maritza Calderon[2], Mayuko Saito[6], Robert H. Gilman[3], Monica J. Pajuelo[2]
[1]Tufts University, Medford, MA, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [4]Asociación Benéfica Proyectos en Informática, Salud, Medicina, y Agricultura (PRISMA), Lima, Peru, [5]University of California Berkeley, Berkeley, CA, United States, [6]Tohoku University Graduate School of Medicine, Sendai, Japan

Scientific Session 110

Flavivirus Transmission and Virus-Host Interactions

Convention Center - Room 606/607 (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR
Bradley Blitvich
Iowa State University, Ames, IA, United States

Rachel Fay
SUNY, Albany, NY, United States

12:45 p.m. **1740**

AEDES MOSQUITO SALIVA INHIBITS FLAVIVIRUS INDUCED INFLAMMASOME BY TARGETING EARLY VIRUS DETECTION

Gaurav Shrivastava[1], Paola Carolina valenzuela Leon[1], Ines Martin Martin[2], Eric Calvo[1]
[1]National Institutes of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), Rockville, MD, United States, [2]Carlos III Health Institute, Madrid, Spain

1 p.m. **1741**

SUCCESSIVE BLOOD FEEDING ALTERS DENGUE VIRUS DISSEMINATION IN WOLBACHIA TRANSINFECTED *AEDES AEGYPTI*

Rebecca M. Johnson[1], Mallery I. Breban[2], Nathan D. Grubaugh[2], Douglas E. Brackney[1], Chantal BF Vogels[2]
[1]The Connecticut Agricultural Experiment Station, New Haven, CT, United States, [2]Yale School of Public Health, New Haven, CT, United States

1:15 p.m. **1742**

EVIDENCE THAT UNTRANSLATED GENOMIC SEQUENCES ARE KEY DETERMINANTS OF INSECT-SPECIFIC FLAVIVIRUS HOST RESTRICTION

Chandra S. Tangudu, Alissa M. Hargett, **Bradley Blitvich**
Iowa State University, Ames, IA, United States

1:30 p.m. **1743**

ATTENUATION OF THE NEUROINVASIVE PHENOTYPE OF WEST NILE VIRUS BY MUTATIONS OF CONSERVED RESIDUES IN THE E PROTEIN HINGE REGION

Bailey E. Maloney[1], Ashley N. Bilyeu[1], Danielle R. Saunders[1], Alan D. T. Barrett[2], Claire Y. H. Huang[3], Stephen Higgs[1], Dana L. Vanlandingham[1], Yan-Jang S. Huang[1]
[1]Kansas State University, Manhattan, KS, United States, [2]University of Texas Medical Branch, Galveston, TX, United States, [3]Centers for Disease Control, Fort Collins, CO, United States

1:45 p.m. **1744**

METABOLIC SYNDROME ENHANCES FLAVIVIRUS DISEASE SEVERITY AND REDUCES VACCINE EFFICACY IN MICE

Elizabeth Geerling[1], E Taylor Stone[1], Danielle H. Carpenter[1], Katherine E. Schwetye[2], Amelia K. Pinto[1]
[1]Saint Louis University, St. Louis, MO, United States, [2]Washington University, St. Louis, MO, United States

2 p.m. **1745**

INCREASING THE RESOLUTION ON WEST NILE VIRUS TRANSMISSION UNDER CLIMATE CHANGE BY ASSESSING POPULATION SPECIFIC EFFECTS OF TEMPERATURE

Rachel Fay[1], Alexander Keyel[2], Marta Shocket[3], Erin Mordecai[3], Laura Kramer[2], Alexander Ciota[2]
[1]School of Public Health, State University of New York Albany, Albany, NY, United States, [2]Wadsworth Center, New York State Department of Health, Albany, NY, United States, [3]Biology Department, Stanford University, Stanford, CA, United States

2:15 p.m. **1746**

FUTURE PROJECTIONS OF THE WEST NILE VIRUS RISK IN EUROPE

Diana Erazo[1], Wim Thierry[2], Simon Dellicour[3]
[1]Université Libre de Bruxelles, Brussels, Belgium, [2]Vrije Universiteit Brussel, Bruxelles, Belgium, [3]Université Libre de Bruxelles, Brussels, KU Leuven, Leuven, Belgium

Symposium 111

Interface of Tick Immune Signaling, Microbiota, and Persistence of Bacterial Pathogens

Convention Center - Room 608/609 (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

Arthropod vectors transmit a series of human diseases on a global scale, posing serious threats to human health. Amongst these, ticks stand second only to mosquitoes as vectors of serious human infectious diseases. Ixodes scapularis or related ticks represent a major globally distributed vector group that can transmit a wide array of viral, bacterial, and eukaryotic pathogens to humans. Most reported cases of vector-borne diseases are associated with ticks, making these the most medically important group of arthropods in the United States. There are at least 15 tick-borne diseases known to occur in the U.S. alone; notably, the majority are caused by bacterial pathogens, including agents of Lyme disease and anaplasmosis. Despite increasing awareness of ticks as prolific disease vectors, most fundamental aspects of Ixodes genetics and immunobiology, particularly how ticks recognize invading pathogens and influence their persistence, are largely unknown. Clearly, these persistent gaps in information not only constitute a formidable obstacle to our understanding of tick-transmitted infections, but also hinder the development of novel control measures to curb these illnesses. Recent research efforts are therefore focused on the gaps in our fundamental knowledge of Ixodes immunity against invading pathogens. This symposium will focus on cutting-edge areas of research involving tick immunobiology. The speakers will share their most recent findings on how atypical immune signaling pathways enable efficient microbial recognition and control in ticks. The presenters will explore how the interactions between the tick immunome and gut microbiota maintain bacterial homeostasis and impact infection with B. burgdorferi or A. phagocytophilum. Speakers will also demonstrate how this basic information about Ixodes immunobiology is being leveraged to develop next-generation anti-tick vaccination strategies, utilizing Ixodes antigens both at the protein and mRNA levels. These studies are supported by multi-institutional team efforts towards developing critical tools and reagents to support research on ticks and tick-transmitted infections. The symposium is designed to foster a productive discussion surrounding this fundamental research on tick immunobiology and its influence on the persistence of pathogens carried by ticks, including essential interactions among the vectors, pathogens, and hosts. The program will explore the development of central paradigms in vector biology, foster collaborations between investigators with distinct expertise, and provide mentoring for the next generation of scientists. The session hopes to entice new research directions, engage and train a new generation of scientists, and advance this important yet neglected research field.

CHAIR
Utpal Pal
University of Maryland, College Park, College Park, MD, United States

12:45 p.m.
INTRODUCTION

12:50 p.m.
CROSS-SPECIES IMMUNITY SIGNALS IMPACTING PERSISTENCE OF TICK-BORNE PATHOGENS
Utpal Pal
University of Maryland, College Park, College Park, MD, United States

1:10 p.m.
MICROBIAL RECOGNITION BY AN ATYPICAL TICK IMMUNE PATHWAY
Joao Pedra
University of Maryland School of Medicine, Baltimore, MD, United States

1:30 p.m.
TICK GUT IMMUNOME - GUT MICROBIOTA INTERACTIONS IN THE CONTEXT OF TICK-BORNE PATHOGENS
Erol Fikrig
Yale University School of Medicine, New Haven, CT, United States

1:50 p.m.
RESOURCES AND TOOLS SUPPORTING TICK SCIENCE
Ulrike Munderloh
University of Minnesota, St. Paul, MN, United States

Symposium 112

Proteomics for Identifying Diagnostic Biomarkers of Central Nervous System (CNS) Infections in Diverse Settings

Convention Center - Room 611/612 (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

Considerable challenges remain in establishing the aetiology of central nervous system (CNS) infections with a significant proportion remaining undiagnosed. Point-of-care tests utilizing protein biomarkers are simple and accessible methods, particularly for resource-limited settings. Advances are being made in the performance of untargeted methods for exploring protein signatures in a variety of diseases. The methods frequently rely on liquid-chromatography mass-spectrometry and downstream complex data processing including artificial intelligence for disease classification. These techniques are less well-established for the diagnosis of CNS infections. This session draws on the experiences of clinicians and researchers in a wide variety of settings to share their experiences.

CHAIR
Paul N. Newton
University of Oxford, Oxford, United Kingdom

Benedikt Kessler
University of Oxford, Oxford, United Kingdom

12:45 p.m.
INTRODUCTION

12:55 p.m.
INTRODUCTION TO PROTEOMICS AND HOW IT CAN BE USEFUL FOR PUBLIC HEALTH
Climent Casals-Pascual
ISGlobal, Barcelona, United Kingdom

1:15 p.m.
APPLICATION OF LIQUID-CHROMATOGRAPHY MASS-SPECTROMETRY AND PREDICTIVE MODELLING FOR IDENTIFICATION OF A PROTEIN SIGNATURE OF JAPANESE ENCEPHALITIS VIRUS IN LAO PDR
Tehmina Bharucha
University of Oxford, Oxford, United Kingdom

1:35 p.m.
DIAGNOSTIC VALUE OF MYELOPEROXIDASE, CRP AND LACTOTRANSFERRIN IN DISTINGUISHING BACTERIAL MENINGITIS AND CEREBRAL MALARIA FROM COMA OF UNKNOWN CAUSE. CSF PROTEOMICS: AETIOLOGY AND BIOMARKERS OF COMA OF UNKNOWN CAUSE AMONG ACUTELY ILL CHILDREN IN KENYA
James Njunge
KEMRI-Wellcome Trust Research Programme, Nairobi, Kenya

1:55 p.m.
UNTARGETED LIQUID-CHROMATOGRAPHY MASS-SPECTROMETRY IN CEREBROSPINAL FLUID SAMPLES AND THE VALUE OF LIPOCALIN 2 AS A POTENTIAL BIOMARKER FOR BACTERIAL MENINGITIS IN VIETNAM - 1
Le Van Tan
Oxford University Clinical Research Unit, Ho Chi Minh City, Viet Nam

2:10 p.m.
VALUE OF LIPOCALIN 2 AS A POTENTIAL BIOMARKER FOR BACTERIAL MENINGITIS IN VIETNAM - 2
Nghiem My Ngoc
Oxford University Clinical Research Unit, Ho Chi Minh, Viet Nam

Scientific Session 113

Pneumonia, Respiratory Infections and Tuberculosis I

Convention Center - Room 613/614 (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

CHAIR
Douglas Perkins
University of New Mexico, Albuquerque, NM, United States
Mariam Fofana
Yale School of Public Health, New Haven, CT, United States

12:45 p.m.

PRESENTATION BY BURROUGHS WELLCOME FUND-ASTMH FELLOWSHIP RECIPIENT **1747**

BAYESIAN FRAMEWORK TO ESTIMATE SARS-COV-2 REINFECTIONS FROM SERIAL SEROLOGIC SURVEYS IN AN URBAN SLUM POPULATION
Mariam Fofana[1], Juan Pablo Aguilar Ticona[2], Emilia Belitardo[2], Nivison Nery Jr[2], Renato Victoriano[2], Rosangela Anjos[2], Moyra Portilho[2], Mayara Carvalho de Santana[2], Laiara dos Santos[2], Daiana de Oliveira[2], Olatunji Johnson[3], Mitermayer Reis[2], Guilherme Ribeiro[2], Matt D.T. Hitchings[4], Federico Costa[5], Derek Cummings[4], Albert Ko[1]
[1]Yale School of Public Health, New Haven, CT, United States, [2]Instituto Goncalo Moniz - FIOCRUZ, Salvador, Brazil, [3]University of Manchester, Manchester, United Kingdom, [4]University of Florida, Gainesville, FL, United States, [5]Universidade Federal da Bahia, Salvador, Brazil

1 p.m. **1748**

TRANSCRIPTOMICS REVEALS COMMON AND UNIQUE DIFFERENTIALLY EXPRESSED GENES IN HOSPITALIZED PATIENTS WITH SEVERE COVID-19 FROM DIVERSE ANCESTRAL GROUPS
Douglas J. Perkins[1], Qiuying Cheng[1], Amber Castillo[1], J. Pedro Teixeira[2], Anthony Worsham[3], Michelle Harkins[2], Philip Seidenberg[4], Jens Langsjoen[3], Jeremy Edwards[5], Kristan Schneider[6], Shuguang Leng[1], Yan Guo[1], Christophe Lambert[1], Ivy Hurwitz[1]
[1]Center for Global Health, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [2]Division of Pulmonary, Critical Care, and Sleep Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [3]Division of Hospital Medicine, Department of Internal Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [4]Department of Emergency Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, [5]Department of Chemistry and Chemical Biology, University of New Mexico, Albuquerque, NM, United States, [6]Department of MNI, University of Applied Sciences Mittweida, Mittweida, Germany

1:15 p.m. **1749**

INFLUENZA, RSV AND SARS-COV-2 SURVEILLANCE IN RURAL ZAMBIA FROM 2019-2021
Mutinta Hamahuwa[1], Pamela Sinywimaanzi[1], Mathias Muleka[1], Passwell Munachoonga[1], Hellen Matakala[1], Juliet Morales[2], Katherine Z.j. Fenstermacher[3], Richard E. Rothman[3], Andrew Pekosz[4], Mwaka Monze[5], Philip E. Thuma[1], Edgar Simulundu[1], Catherine G. Sutcliffe[2]
[1]Macha Research Trust, Choma, Zambia, [2]Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Department of Emergency Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, United States, [4]Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [5]Virology Laboratory, University Teaching Hospital, Lusaka, Zambia

1:30 p.m. **1750**

HOUSEHOLD TRANSMISSION OF THE SARS-COV-2 OMICRON VARIANT IN AN URBAN SLUM SETTLEMENT IN BRAZIL
Juan P. Aguilar Ticona[1], Nivison Nery Jr[2], Mariam O. Fofana[3], Emilia M. M. Andrade Belitardo[2], Ricardo Khouri[2], Olatunji Johnson[4], Renato Victoriano[2], Jaqueline S. Cruz[2], Guilherme S. Ribeiro[2], Mitermayer G. Reis[2], Derek A.T. Cummings[5], Federico Costa[1], Albert I. Ko[3]
[1]Instituto de Saúde Coletiva, Universidade Federal da Bahia, Salvador, Brazil, [2]Instituto Gonçalo Moniz, Fundação Oswaldo Cruz, Ministério da Saúde, Salvador, Brazil, [3]Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, [4]Department of Mathematics, University of Manchester, Manchester, United Kingdom, [5]Department of Biology, University of Florida, Gainesville, FL, United States

1:45 p.m. 1751

DETECTING SARS-COV-2 VIRUS AT INDOOR DINING ESTABLISHMENTS DURING DELTA AND OMICRON TRANSMISSION WAVES

Abigail J. Porzucek, Molly Robertson, Jonathan Bashor, Sarah R. Tritsch, Christopher N. Mores
George Washington University, Washington, DC, United States

2 p.m. 1752

A NEUTROPHIL-ACTIVATING MICROBE IS REDUCED IN THE NASO-OROPHARYNX OF COVID-19 PATIENTS IN AN AFRICAN POPULATION: IMPLICATIONS FOR DISEASE SEVERITY

Jewelna Akorli, Millicent Opoku, Margaret Sena Akpo, Rahmat bint Yusif Ismail, Irene Owusu Donkor
Noguchi Memorial Institute for Medical Research, University of Ghana, Legon- Accra, Ghana

2:15 p.m. 1753

ESTIMATING GLOBAL SPATIAL DYNAMICS AND VACCINE-INDUCED FITNESS CHANGES OF BORDETELLA PERTUSSIS

Noemie Lefrancq[1], Valérie Bouchez[2], Eupertstrain consortium[3], Nathalie Armatys[2], Annie Landier[2], Sophie Guillot[2], Samuel L. Hong[4], Philippe Lemey[4], Julian Parkhill[1], Julie Toubiana[2], Simon Cauchemez[2], Henrik Salje[1], Sylvain Brisse[2]
[1]University of Cambridge, Cambridge, United Kingdom, [2]Institut Pasteur, Paris, France, [3], [4]KU Leuven, Leuven, Belgium

Symposium 114

Slaying the Dragon: A Multi-Disciplinary Approach to Reframe and Investigate Transmission Dynamics towards the Eradication of Guinea Worm Disease

Convention Center - Room 615/616/617 (6th Floor)
Wednesday, November 2, 12:45 p.m. - 2:30 p.m. U.S. Pacific Time Zone

Drawing on the successful campaign to eradicate smallpox, the United States Centers for Disease Control and Prevention (CDC) began a Guinea worm eradication initiative in 1980, and in 1981 and 1986 the World Health Assembly officially called for the elimination of dracunculiasis. The Carter Center and the World Health Organization (WHO) then began assisting ministries of health in countries with endemic dracunculiasis to establish community-based surveillance and interventions. In 1986, 3.5 million cases were estimated to have occurred in 20 countries in Africa and Asia. In 2021, there were only 15 reported human Guinea worm cases (>99% reduction) confined to just four countries: Chad, Ethiopia, Mali and South Sudan. Progress towards eradication continues, but several challenges remain, including Dracunculus medinensis (the causative agent of Guinea worm) in domesticated dogs and cats, wild cats, and olive baboons (in Ethiopia) and ongoing transmission in conflict and post-conflict settings. The Guinea Worm Eradication Program (GWEP) maintains an extensive network of volunteers and field staff who conduct active, community-based surveillance to identify and contain Guinea worm disease in both humans and animals, as well as aggressive vector control in at-risk water sources. To complement knowledge gained from surveillance and epidemiological investigation efforts, the GWEP supports a robust operational research agenda to improve understanding of transmission dynamics in humans and animals. This symposium will first highlight the approach taken to revamp the GWEP research agenda to accelerate learning, develop additional tools to aid the interruption of Guinea worm transmission, and support certification of elimination of transmission. Thereafter, panelists will present the results of ongoing operational research conducted on live trapped baboons, epidemiological and ecologic investigations in the Gog and Abobo Districts of the Gambella Region of Ethiopia. Finally, symposium panelists will discuss how epidemiologic, surveillance and genomic data can be used to further explore and examine transmission dynamics, study population genetics, understand population ranges, and inform future efforts to advance progress towards eradication.

CHAIR

Adam J. Weiss
The Carter Center, Atlanta, GA, United States

Dieudonne Sankara
The World Health Organization, Geneva, Switzerland

12:45 p.m.
INTRODUCTION

12:55 p.m.
THE DRAGON'S TALE: REVAMPING THE RESEARCH AGENDA TO ACCELERATE GLOBAL ERADICATION OF GUINEA WORM

Fernando Torres-Vélez
The Carter Center, Atlanta, GA, United States

1:10 p.m.
INTO THE WILD: UNVEILING THE ROLE OF ETHIOPIAN OLIVE BABOONS (PAPIO ANUBIS) IN THE TRANSMISSION OF GUINEA WORM THROUGH ACTIVE SURVEILLANCE AND DISEASE EPIDEMIOLOGY AND ECOLOGY

Desalegn Getahun Gebrie
Ethiopian Public Health Institute, Addis Ababa, Ethiopia

1:25 p.m.
CATCHING THE TAIL OF THE DRAGON: EPIDEMIOLOGIC INVESTIGATIONS REVEAL CASE CLUSTERS, DESPITE SPORADIC APPEARANCE IN SPACE AND TIME

Maryann Delea
The Carter Center, Atlanta, GA, United States

1:40 p.m.
BIG DATA FOR LITTLE DRAGONS: APPLYING NEXT GENERATION TECHNOLOGIES TO GUINEA WORM POPULATION GENETICS

Elizabeth Thiele
Vassar College, Poughkeepsie, NY, United States

1:55 p.m.
MODELING GENOMIC SURVEILLANCE AND EPIDEMIOLOGIC DATA TO UNDERSTAND AND PREDICT POPULATION DYNAMICS

Jessica Ribado
Institute for Disease Modeling/Bill & Melinda Gates Foundation, Seattle, WA, United States

Session 115

ASTMH Annual Business Meeting

Convention Center - Room 618/619/620 (6th Floor)
Wednesday, November 2, 12:45 p.m. - 1:45 p.m. U.S. Pacific 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

Career Chats IV (In-Person Session)

Convention Center - Room 3B (3rd Floor)
Wednesday, November 2, 2 p.m. - 3 p.m. U.S. Pacific Time Zone

Attend the Career Chats sessions to meet professionals in the tropical medicine field who will share their career stories and strategies to help you along your professional path, as well as discuss topical subjects in the field of global health.

CHAIR
Hanna Ehrlich
University of California Davis, Davis, CA, United States

Bronwyn MacInnis
Broad Institute, Cambridge, MA, United States

Oyebola Oyesola
National Institutes of Health, Bethesda, MD, United States

Break

Wednesday, November 2, 2:30 p.m. - 3 p.m.

Scientific Session 116

Malaria: Understanding Challenges and Developing Solutions for Delivery of Malaria Interventions

Convention Center - Room 6AB (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

CHAIR
Larry Slutsker
Independent Consultant, Atlanta, GA, United States

Stella Babalola
PMI Breakthrough ACTION Project, Johns Hopkins Center for Communication Programs, Baltimore, MD, United States

3 p.m. 1754

INFECTIOUSNESS AND ATTRACTIVENESS OF PREGNANT WOMEN IN THE SEASONAL MALARIA TRANSMISSION ZONE OF SAPONÉ IN BURKINA FASO

Sam Aboubacar Coulibaly[1], Marta Moreno[2], Moussa Guelbeogo[1], Teun Bousema[3], Chris Darkeley[2], Alfred B. Tiono[1]
[1]Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, [2]London School of Hygiene and Tropical Medicine, London, United Kingdom, [3]Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands

3:15 p.m. 1755

ANTENATAL CARE BEHAVIORS, INTENTIONS, AND PSYCHOSOCIAL FACTORS AMONG YOUNG MOTHERS WITH FUTURE PREGNANCY INTENTIONS IN MALAWI AND THE DEMOCRATIC REPUBLIC OF CONGO, 2021

Michael Bride[1], Bolanle Olapeju[1], Julie R. Gutman[2], Ashley Malpass[3], Jessica K. Butts[2], Katie Rodriguez[1], Lynn Van Lith[1], Nyanyiwe Mbeye[4], Susan Youll[3], Sosten Lankhulani[5], Florence Mpata[6], Ferdinand Ntoya[7], Anna McCartney-Melstad[1], Stella Babalola[1]
[1]Johns Hopkins University Center for Communications Programs, Baltimore, MD, United States, [2]U.S. President's Malaria Initiative, Malaria Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]U.S. President's Malaria Initiative, USAID, Washington DC, DC, United States, [4]Kamuzu University of Health Sciences, Lilongwe, Malawi, [5]National Malaria Control Program,, Lilongwe, Malawi, [6]Johns Hopkins University Center for Communications Programs, Kinshassa, Democratic Republic of the Congo, [7]Presidents Malaria Initiative, USAID, Kinshassa, Democratic Republic of the Congo

3:30 p.m. 1756

EFFECT OF COMMUNITY DELIVERY OF INTERMITTENT PREVENTIVE TREATMENT (IPTP) OF MALARIA IN PREGNANCY ON COVERAGE OF IPTP IN FOUR SUB-SAHARAN AFRICAN COUNTRIES

Raquel Gonzalez[1], Charfudin Sacoor[2], Iwara Arikpo[3], Didier Mbombo Ndombe[4], Ranto Ramananjato[5], Mireia Llach[1], Antía Figueroa-Romero[1], Eusebio Macete[2], Martin Meremikwu[3], Manu F. Manun'Ebo[4], Victor R. Rabeza[5], Sergi Sanz[1], Máximo Rámirez[1], Clara Pons-Duran[1], Christina Maly[6], Elaine Roman[6], Franco Pagnoni[1], Clara Menendez[1]
[1]Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, [2]Centro de Investigação em Saúde de Manhiça (CISM), Manhiça, Mozambique, [3]Cross River Health and Demographic Surveillance System, University of Calabar, Calabar, Nigeria, [4]Bureau d'Étude et de Gestion de l'Information Statistique (BÉGIS), Kinshasa, Democratic Republic of the Congo, [5]Malagasy Associates for Numerical Information and Statistical Analysis (MANISA), Antananarivo, Madagascar, [6]Jhpiego, An Affiliate of Johns Hopkins University, Baltimore, MD, United States

3:45 p.m. 1757

POINT OF CARE TESTING IMPLEMENTATION AND CAUSES OF FEVER IN CHILDREN AND ADULTS ATTENDING IN A SENTINEL SITE FOR MALARIA SURVEY IN LIBREVILLE-GABON

Bridy Chesly Moutombi Ditombi[1], Saskia Davi[2], Fabiola Matchuente Takam[1], Ahmed Adissa Agbanrin[1], Denise Patricia Mawili Mboumba[1], Michael Ramharter[2], Marielle Karine Bouyou Akotet[1]
[1]Universite des Sciences de la Sante, Libreville, Gabon, [2]Bernhard Nocht Institute for Tropical Medecine, Hambourg, Germany

4 p.m. **1758**

ASSESSING THE INFLUENCE OF PSYCHOSOCIAL FACTORS ON PROVIDER MALARIA CASE MANAGEMENT IN HEALTH FACILITIES IN BENIN, 2021

Stella Babalola[1], Mateusz Plucinski[2], Ruchita Pillai[1], Hortense Kossou[3], Aurore Hounto[4], Angela Acosta[1], Dean Sayre[2], Patrick Condo[5], Virgile Gnanguenon[5], Ahmed Saadani Hassani[6], Cyriaque Affoukou[4]
[1]PMI Breakthrough ACTION Project, Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, [2]U.S. President's Malaria Initiative, Malaria Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]PMI Integrated Health Services Activity Project, Management Sciences for Health, Cotonou, Benin, [4]National Malaria Control Program, Ministry of Health, Cotonou, Benin, [5]U.S. President's Malaria Initiative, United States Agency for International Development, Cotonou, Benin, [6]U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Cotonou, Benin

4:15 p.m. **1759**

A CROSS-SECTIONAL SURVEY TO ASSESS THE FEASIBILITY AND ACCEPTABILITY OF SEASONAL MALARIA CHEMOPREVENTION AMONG NOMADIC PASTORALIST POPULATION; THE CASE OF KARAMOJA, REGION IN UGANDA

Anthony Nuwa[1], Musa Odongo[1], James K. Tibenderana[2], Kevin N. Baker[2], Christian Rassi[3], David Salandini O. Odong[1], Maureen Nakirunda[1], Tonny Kyagulanyi[1], Craig Bonnington[2], Jane Achan[2], Madeleine Marasciulo-Rice[4], Stella B. Sali[1], Hilda Abio[1], Chrisestome Muhereza[1], Junior Achia[1], Godfrey Magumba[1], Sol Richardson[2], Damian Rutazaana[5], Jane I. Nabakooza[5], Denis Rubahika[5], Jimmy Opigo[5]
[1]Malaria Consortium, Kampala, Uganda, [2]Malaria Consortium, London, United Kingdom, [3]Malaria Consortium, London, Uganda, [4]Malaria Consortium, Raleigh, NC, United States, [5]Ministry of Health, Uganda, Kampala, Uganda

4:30 p.m. **1760**

IMPROVING INSECTICIDE TREATED NET COVERAGE THROUGH ANTENATAL CARE SERVICES IN RWANDA

Jean Louis Ndikumana Mangara[1], Marcel Manariyo[2], Michée S. Kabera[1], Yvette Muyirukazi[1], Jean Modeste Harerimana[3], Christine Mutaganzwa[2], Marie Rose Kayirangwa[2], Noella Umulisa[4], Aimable Mbituyumuremyi[1]
[1]Rwanda Biomedical Center, Kigali, Rwanda, [2]Jhpiego, Kigali, Rwanda, [3]US President's Malaria Initiative, Impact Malaria project, Kigali, Rwanda, [4]US President's Malaria Initiative, Impact Malaria project, Rwanda, Kigali, Rwanda

Symposium 117

LIVE STREAMING

Democratization and Decolonization of Tropical Medicine and Global Health

Convention Center - Room 6C (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

Past and present racism, anti-Blackness, anti-indigenous, and tribalism continue to be intimately intertwined with colonialism, global health research, publishing of global health research, and provision of healthcare in developing countries. In many instances, racism was used as a malicious justification for colonialism and enslavement in different settings. Importantly, vestiges of this colonial legacy persist in work environments through hiring practices, team structures/hierarchies, and implementation of global health research projects. Significant work is needed to democratize and decolonize tropical medicine and global health research in developing countries.

In this symposium, participants will 1) provide a historical overview of the effects of colonization on global health research; 2) discuss the impact of colonization on health and health research in formerly colonized low-and-middle income countries (LMICs); 3) discuss development and implementation of a novel toolkit for equitable global health research; and 4) discuss how a curriculum on decolonizing global health is being implemented in academic institutions such as Emory University.

This symposium is expected to benefit early, mid-career, and senior level clinical, basic and community health science researchers in global health space, funding agencies, national leaders and grant writers at an individual level as they think through plans for a future projects or new studies. It will also facilitate and guide multidisciplinary team conversations and provide structure for discussing this complex topic and holding each other accountable. Finally, it is intended to move funding organizations and advocates to evaluate how they are structured and identify areas that could be contributing to ongoing colonial power dynamics.

CO-CHAIR

Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

Linnie Golightly
Weill Cornell Medicine, NY, NY, United States

3 p.m.
INTRODUCTION

3:10 p.m.
ADDRESSING THE ENDURING COLONIAL LEGACIES AS THE ROOTS OF CONTEMPORARY EDUCATION AND HEALTH DISPARITIES IN AFRICA: FOCUS ON GENDER

N'Dri T. Assié-Lumumba
Cornell University, Ithaca, NY, United States

3:30 p.m.
IMPLEMENTATION OF A CURRICULUM ON DECOLONIZING GLOBAL HEALTH IN ACADEMIC INSTITUTIONS

Rebecca Martin
Emory Global Health Institute Emory University, Atlanta,, GA, United States

3:50 p.m.
ENVISIONING A NEW MODEL FOR EQUITY IN GLOBAL HEALTH PARTNERSHIPS

Felix Ong'era Mogaka
Kenya Medical Research Institute/University of Washington, Nairobi, Kenya

4:10 p.m.
MODERATOR AND PANEL DISCUSSION

Renee Alexander
Cornell University, Ithaca, NY, United States

Symposium 118

Laboratory Implementation of Multiplex Serologic Methods: Multi-Pathogen Integrated Surveillance to Inform Public Health Decision-Making in Diverse Geographic Settings

Convention Center - Room 6E (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

The detection and quantitation of immune responses in serum (serosurveillance) is increasingly recognized as an important public health and scientific tool to aid in estimation of pathogen exposure and disease risk. Historically, immunoassay platforms such as lateral flow-based tests or ELISAs were able to test for antibodies against a single antigen. Recent advances in bead-based immunoassays allows inclusion of multiple (50 or more) antigenic targets in a single test in a bespoke fashion using very small sample volumes. These multiplex bead assays have increased the potential of serosurveillance to inform control and elimination interventions across broad groups of pathogens, including vaccine-preventable diseases (VPDs), neglected tropical diseases (NTDs), arboviral diseases, and enteric diseases. However, the realization of such potential is dependent on the successful implementation of multiplex serologic array systems in laboratories located in countries where these diseases have the highest burden, in order to have the highest impact for translation into public health decision-making. Thus, in this symposium, a group of speakers has been assembled who have implemented multiplex array systems for integrated serological surveillance in their laboratories, with representatives from laboratories in 5 countries across 3 continents: 1) Kenya, 2) Mexico/Paraguay, 3) Nigeria, 4) Papua New Guinea, and 5) Senegal. They will speak on their experiences implementing multiplex methods, including: a) sample selection and prioritization, b) assay setup, validation, and quality control, c) data management, analysis, interpretation, and sharing, and d) preliminary results and potential impact on public health. A panel discussion with audience participation will follow these talks, with a focus on encouraging collaboration amongst laboratories in the Global South.

CHAIR

Daniel Leung
University of Utah, Salt Lake City, UT, United States

Martha Saboya
Pan American Health Organization, Washington, DC, United States

3 p.m.
INTRODUCTION

3:10 p.m.
EXPERIENCE IN ESTABLISHING INTEGRATED MULTIPLEX SEROSURVEILLANCE IN AN NTD RESEARCH LABORATORY IN KENYA

Sammy M. Njenga
Kenya Medical Research Institute (KEMRI), Nairobi, Kenya

3:25 p.m.
EXPERIENCE ON IMPLEMENTATION OF INTEGRATED SEROSURVEILLANCE OF COMMUNICABLE DISEASES IN PARAGUAY

Claudia Huber
Laboratorio Central de Salud Pública, Asuncion, Paraguay

3:40 p.m.
NIGERIA'S EXPERIENCE OF MULTI-PATHOGEN INTEGRATED SEROSURVEILLANCE

Mary Okoli
Nigeria Center for Disease Control, Abuja, Nigeria

3:55 p.m.
ESTABLISHING MULTI-PATHOGEN SEROSURVEILLANCE TO INFORM DISEASE CONTROL INTERVENTIONS IN PAPUA NEW GUINEA

Maria Ome-Kaius
Papua New Guinea Institute of Medical Research, Port Moresby, Papua New Guinea

4:10 p.m.
WHOSE LINE IS IT ANYWAY? DEFINING SERO-POSITIVITY THRESHOLDS FOR INFECTIOUS DISEASE SURVEILLANCE

Michael White
Institut Pasteur, Paris, France

Symposium 119

LIVE STREAMING The Invasion and Expansion of Anopheles stephensi into Africa: How Are National Malaria Programs Adapting and Responding?

Convention Center - Room 602/603/604 (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

The intent of the symposium is to stimulate discourse over the scale of the threat, the urgency of the response and the challenges to be overcome. While there has been recent momentum towards developing a unified response to Anopheles stephensi expansion in Africa, the amount of action does not mirror the urgency. Predictions of alarming increases in malaria cases (Sinka 2020, Hamlet 2022) if An. stephensi remains unchecked may become manifest if fundamental questions concerning best practices for surveillance and control remain unanswered. The first speaker, Pradeep Srivastava, will draw from the experiences of An. stephensi control activities in India to highlight commonalities and distinctions between that setting and the Africa context, and what lessons learned can be applied to halt the spread. The speakers from Ethiopia and Sudan will showcase what is currently being done in those countries where An. stephensi is already present, where the key challenges lie, and what would be feasible in terms of scaling up of activities. Specifically, Achamyelesh Sisay will present on the operationalization of the Ethiopia five-year strategic action plan, with a focus on collaborations with urban municipalities and the implementation of larviciding for control. Elmustafa Abubakr will provide a debriefing on the national surveillance plan in Sudan, the priorities and motivation for action, emphasizing the needs and innovations required to

achieve set goals. Solomon Karoki will speak to the potential threat of An. stephensi to malaria elimination efforts in the arid areas and urban centers of northern Kenya. His presentation will highlight the efforts of the Kenya Division of National Malaria Program to incorporate An. stephensi surveillance into the countrywide mosquito surveillance operational guidelines. As Kenya is faced with the challenge of An. stephensi invasion from multiple cross-border transportation axes with Sudan, Somalia and Ethiopia, as well as sea ports, he will highlight the importance of cross-border collaborations for early detection of invasion. This symposium places the countries themselves at the forefront of the conversation, and the discussion that follows the presentations will be guided by their regional expertise, grounded in what is operationally achievable. With speakers from two NMCPs where surveillance is ongoing, and one where surveillance plans are being established, the national programs will be able to draw attention to the major challenges to surveillance, control, elimination and prevention of reinvasion, and the need for a more accelerated response involving multi-sectoral and cross-border collaborations.

CHAIR

Matt J. Kirby
Abt Associates, Rockville, MD, United States

Sarah Zohdy
US Centers for Disease Control and Prevention, Atlanta, GA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
THE POTENTIAL FOR LARVICIDING IN ETHIOPIA TO CONTROL ANOPHELES STEPHENSI.

Achamyelesh S. Mekuanint
Federal Ministry of Health, Ethiopia, Addis Ababa, Ethiopia

3:25 p.m.
DEBRIEFING ON THE NATIONAL PLAN OF SURVEILLANCE AND CONTROLLING ANOPHELES STEPHENSI IN SUDAN, 2021

Mustafa Abubakr
Sudan Federal Ministry of Health – Department of Integrated Vector Management, Khartoum, Sudan

3:40 p.m.
RESPONDING TO THE THREAT OF AN. STEPHENSI INVASION INTO KENYA

Solomon Karoki
Division of National Malaria Program, Ministry of Health, Nairobi, Kenya

3:55 p.m.
INSIGHTS FROM INDIA: AN. STEPHENSI SURVEILLANCE AND CONTROL

Pradeep K. Srivastava
NVBDCP, Ministry of Health, New Delhi, India

Scientific Session 120

Bacteriology: Trachoma, Systemic Infections and Other Bacterial Infections

Convention Center - Room 605/610 (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

CHAIR

Benjamin Arnold
UCSF, San Francisco, CA, United States

David L. Saunders
Uniformed Services University, Bethesda, MD, United States

3 p.m. **1761**

MONITORING POPULATION PROGRESS TOWARD TRACHOMA ELIMINATION WITH SEROLOGY: A MULTI-COUNTRY ANALYSIS

Christine Tedijanto[1], Diana L. Martin[2], Scott D. Nash[3], Jeremy D. Keenan[1], Thomas M. Lietman[1], Anthony W. Solomon[4], Patrick J. Lammie[5], Khumbo Kalua[6], Brook Goodhew[2], Sheila K. West[7], Beatriz Munoz[7], Mabula Kasubi[8], Jaouad Hammou[9], Taye Zeru[10], Adisu A. Dawed[11], Baido Nassirou[12], Abdou Amza[12], Ahmed M. Arzika[13], Solomon Aragie[14], Dionna M. Wittberg[1], Kelly Callahan[3], Zerihun Tadesse[14], Kristen Aiemjoy[15], Benjamin F. Arnold[1]
[1]Francis I. Proctor Foundation, University of California San Francisco, San Francisco, CA, United States, [2]Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]The Carter Center, Atlanta, GA, United States, [4]Department of Control of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland, [5]Neglected Tropical Diseases Support Center, Task Force for Global Health, Atlanta, GA, United States, [6]Blantyre Institute for Community Outreach, Blantyre, Malawi, [7]Wilmer Eye Institute, Johns Hopkins University, Baltimore, MD, United States, [8]Department of Microbiology, Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, [9]Ministry of Health, Rabat, Morocco, [10]Amhara Public Health Institute, Bahir Dar, Ethiopia, [11]Amhara Regional Health Bureau, Bahir Dar, Ethiopia, [12]Programme National de Lutte Contre la Cecité, Niamey, Niger, [13]The Carter Center, Niamey, Niger, [14]The Carter Center, Addis Ababa, Ethiopia, [15]University of California Davis, Davis, CA, United States

3:15 p.m. **1762**

INVESTIGATING THE ROLE OF CHLAMYDIA-SPECIFIC ANTIBODIES IN OCULAR INFECTION AND DISEASE PROGRESSION

Rebecca Sarsam[1], Anna Harte[1], Athumani Ramadhani[2], Harry Pickering[1], Tamsyn Derrick[1], Amber Barton[1], Elias Mafuru[2], Patrick Massae[2], Kelvin Mbuya[2], William Makupa[2], Tara Mtuy[1], Robin L. Bailey[1], David CW Mabey[1], Matthew J. Burton[1], Martin J. Holland[1]
[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania

3:30 p.m. 1763

THE CURIOUS CASE OF A HIGH PREVALENCE OF TRACHOMATOUS INFLAMMATION - FOLLICULAR WITH NO TRACHOMATOUS TRICHIASIS: CAN ALTERNATIVE INDICATORS OF CHLAMYDIA TRACHOMATIS HELP US BETTER UNDERSTAND THE EPIDEMIOLOGY OF TRACHOMA IN CÔTE D'IVOIRE?

Meite Aboulaye[1], Diana Martin[2], Anthony W. Solomon[3], Philip Downs[4], Michaela Kelly[5], Anoma Bovary[1], Konan Nguessan[6], Sarah Gwyn[2], Karana Wickens[7], Ana Bakhtiari[8], Ange Aba[9], Achille Kabore[9], Emma Harding-Esch[10], Stephanie Palmer[9], Paul Courtright[11], **Kareen Atekem**[12]

[1]Ministry of Health, Abidjan, Côte D'Ivoire, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]World Health Organization, Geneva, Switzerland, [4]Sightsavers, Atlanta, GA, United States, [5]Sightsavers, Haywards Heath, United Kingdom, [6]Sightsavers, Abidjan, Côte D'Ivoire, [7]Oak Ridge Institute for Science and Education, Atlanta, GA, United States, [8]International Trachoma Initiative, Decatur, GA, United States, [9]FHI360, Washington, DC, United States, [10]London School of Hygiene and Tropical Medicine, London, United Kingdom, [11]Kilimanjaro Centre for Community Ophthalmology, Cape Town, South Africa, [12]Sightsavers, Yaounde, Cameroon

3:45 p.m. 1764

ENHANCING TRACHOMA ELIMINATION USING ENSEMBLE FORECASTING

Ariktha Srivathsan, Seth Blumberg, Michael Deiner, Travis Porco, Thomas Lietman

University of California San Francisco, San Francisco, CA, United States

4 p.m. 1765

DOXYCYCLINE RESPONDING ILLNESSES IN RETURNING TRAVELERS WITH UNDIFFERENTIATED NON-MALARIAL FEVER: A MULTICENTER PROSPECTIVE COHORT STUDY

Daniel Camprubí Ferrer[1], Jose Antonio Oteo[2], Emmanuel Bottieau[3], Blaise Genton[4], Leire Balerdi-Sarasola[1], Aránzazu Portillo[2], Ludovico Cobuccio[4], Steven Van Den Broucke[3], Sonia Santibáñez[2], Dániel Cadar[5], Natalia Rodriguez-Valero[1], Alex Almuedo-Riera[1], Valérie d'Acremont[4], Miguel J Martinez[1], Jose Muñoz[1]

[1]ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, [2]Center of Rickettsiosis and Arthropod-Borne Diseases, Hospital Universitario San Pedro-CIBIR, Logroño, Spain, [3]Department of Clinical Sciences, Institute of Tropical Medicine, Antwerp, Belgium, [4]Center for Primary Care and Public Health, University of Lausanne, Lausanne, Switzerland, [5]Bernhard Nocht Institute for Tropical Medicine, National Reference Centre for Tropical Pathogens, Hamburg, Germany

4:15 p.m. 1766

LONGITUDINAL PHASE 2 CLINICAL TRIALS OF LIVE, ATTENUATED TULAREMIA VACCINE IN OTHERWISE HEALTHY RESEARCH LABORATORY WORKERS OPERATING IN CONTAINMENT LABORATORIES

David L. Saunders[1], Benjamin C. Pierson[1], Jeannine Haller[2], Sarah Norris[2], Anthony P. Cardile[2], Ronald B. Reisler[3], Arthur C C. Okwesili[4], Ellen Boudreau[2], Bret K. Purcell[2], Erin M. Tompkins[2], Isaac L. Downs[2], Dani Liggett[2], Mark G. Kortepeter[1], Fernando B. Guerena[2], Maryam Keshtkar[5], Phillip R. Pittman[2]

[1]Uniformed Services University, Bethesda, MD, United States, [2]US Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States, [3]Davis Defense Group, Stafford, VA, United States, [4]San Antonio Military Medical Center, San Antonio, TX, United States, [5]Johns Hopkins University School of Medicine, Baltimore, MD, United States

4:30 p.m. 1767

IN VITRO TIME-KILL ASSAYS OF AMOXICILLIN/CLAVULANATE IN COMBINATION WITH RIFAMPICIN/CLARITHROMYCIN AGAINST MYCOBACTERIUM ULCERANS

Emma Sáez López[1], Ana Cris Millán Placer[1], Ainhoa Lucía Quintana[1], Santiago Ramón García[2]

[1]University of Zaragoza, Zaragoza, Spain, [2]University of Zaragoza/Fundación Agencia Aragonesa para la Investigación y el Desarrollo (ARAID), Zaragoza, Spain

Scientific Session 121

Dengue Transmission and Virus-Host Interactions

Convention Center - Room 606/607 (6th Floor)

Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

CHAIR

Kathryn Hanley

New Mexico State University, Las Cruces, NM, United States

Eva Harris

University of California Berkeley, Berkeley, CA, United States

3 p.m. 1768

MOLECULAR DETERMINANTS OF TISSUE SPECIFICITY OF FLAVIVIRUS NONSTRUCTURAL PROTEIN 1

Nicholas Tzuning Lo, Susan Roodsari, Nicole R. Tin, Scott B. Biering, **Eva Harris**

Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

3:15 p.m. 1769

IDENTIFICATION OF ENDOTHELIAL CELL RECEPTORS FOR DENGUE VIRUS NONSTRUCTURAL PROTEIN 1

Scott B. Biering, Felix Pahmeier, Richard Ruan, Laurentia V. Tjang, Francielle Tramontini Gomes de Sousa, Eva Harris

Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

3:30 p.m. 1770

AN 8-GENE MACHINE LEARNING MODEL IMPROVES CLINICAL PREDICTION OF SEVERE DENGUE PROGRESSION

Yiran Liu

Stanford University, Stanford, CA, United States

3:45 p.m. 1771

TRADE-OFFS SHAPING ARBOVIRUS TRANSMISSION IN NATIVE AND NOVEL HOSTS

Kathryn A. Hanley[1], Sasha R. Azar[2], Brett Moehn[1], Wanqin Yu[1], Ruimei Yun[2], Nikos Vasilakis[2], Shannan L. Rossi[2]

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

4 p.m. 1772

SULFATED B-GLUCAN FROM AGARICUS SUBRUFESCENS INHIBITS FLAVIVIRUS VIRUS INFECTION AND DENGUE VIRUS NONSTRUCTURAL PROTEIN 1-MEDIATED PATHOGENESIS *IN VITRO* AND *IN VIVO*

Francielle Tramontini Gomes de Sousa[1], Scott B. Biering[1], Trishna S. Patel[1], Sophie F. Blanc[1], Carla M. Camelini[2], Dalila Venzke[3], Ricardo J. Nunes[3], Camila M. Romano[4], P. Robert Beatty[1], Ester Cerdeira Sabino[5], Eva Harris[1]
[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Departamento de Microbiologia, Imunologia e Parasitologia, Universidade Federal de Santa Catarina, Florianópolis, Brazil, [3]Departamento de Química, Universidade Federal de Santa Catarina, Florianópolis, Brazil, [4]Laboratório de Virologia (LIMHC 52), Hospital das Clinicas HCFMUSP da Faculdade de Medicina, Universidade de São Paulo, Sao Paulo, Brazil, [5]Instituto de Medicina Tropical, Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil

4:15 p.m. 1773

GENOME EVOLUTION OF DENGUE VIRUS UNDER SELECTION BY WOLBACHIA PIPIENTIS IN *AEDES AEGYPTI* MOSQUITOES

Kien Duong
Oxford University Clinical Research Unit, Hospital for Tropical Disease, HCM, Viet Nam

4:30 p.m. 1774

A SINGLE HISTIDINE TO ARGININE SUBSTITUTION ON THE PRE-MEMBRANE (PRM) PROTEIN ATTENUATED A TYPE-2 DENGUE VIRUS THAT CAUSED THE SOUTH PACIFIC ISLAND OUTBREAKS IN THE 1970S

Allyson N. X. Choi, Milly M. Choy, Tanamas Siriphanitchakorn, Menchie Manuel, Lowell Z. Lin, Xin Yap, Eng Eong Ooi, Duane J. Gubler
DUKE-NUS Medical School, Singapore, Singapore

Symposium 122

Strides Toward a National Strategy to Address Vector-Borne Disease Threats in the United States

Convention Center - Room 608/609 (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

The threat of vector-borne diseases in the United States is on the rise, with ever-increasing numbers of tick-borne diseases, endemic and persistent disease associated with West Nile virus, and the promise of emerging viruses transmitted by Aedes aegypti and Ae. albopictus. The threat is compounded by an absence of effective human vaccines for vector-borne disease threats, complications with establishing scalable community-wide approaches to control ticks, and a fragmentary infrastructure available for mosquito control. A National Strategy to Address Vector-Borne Disease threats encompasses both building state and local public health capacity and research and innovation to expand the vector control armamentarium. To do so will require coordinating a national network of CDC scientists, public health and vector control professionals, state and local public health practitioners, and academic institutions. CDC has invested in this vision through funding states and territories to maintain surveillance programs and diagnostic laboratory capacity, through partnerships with industry and academia to support innovation in vector control and bite prevention, and through university-based Centers of Excellence to train medical entomologists, foster communities of practice with public health and vector control agencies, and conduct applied research. In this symposium, we draw on examples from these initiatives to underscore the ways that the National Strategy is coming to fruition.

CHAIR

Lyric Bartholomay
University of Wisconsin at Madison, Madison, WI, United States

Ann Powers
Centers for Disease Control and Prevention, Fort Collins, CO, United States

3 p.m.
INTRODUCTION

3:10 p.m.
VECTOR-BORNE DISEASE CAPACITY BUILDING AND INNOVATION

Lyle Petersen
Centers for Disease Control and Prevention, Fort Collins, CO, United States

3:35 p.m.
IMPACTS OF CDC-FUNDED RESEARCH ON TICK CONTROL

Lars Eisen
Centers for Disease Control and Prevention, Fort Collins, CO, United States

4 p.m.
WHAT CDC-FUNDED RESEARCH HAS REVEALED ABOUT THE HUMAN BEHAVIOR/TICK INTERFACE

Pilar Fernandez
Washington State University, Pullman, WA, United States

4 p.m.
IMPACTS OF CDC-FUNDED RESEARCH ON MOSQUITO CONTROL

Lyric Bartholomay
University of Wisconsin at Madison, Madison, WI, United States

Symposium 123

The State of Zika Virus Diagnostics in 2022: Innovative Strategies and Qualified Resources That Have Been Advanced Since 2019

Convention Center - Room 611/612 (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

Zika virus (ZIKV) emerged causing outbreaks in the Western Pacific and the Americas from 2013-2017 where ZIKV infections were a causal link to thousands of cases of microcephaly and developmental abnormalities in fetuses/infants when mothers acquired infection during pregnancy; it also was linked to rare cases of Guillain-Barré Syndrome in adults. ZIKV is primarily transmitted though the bite of an infected Aedes mosquito but can be spread through the placenta, during sex and through blood transfusions. As quickly and as intensely ZIKV infections spread during 2016-2017 in Latin America, its outbreak profile dropped quickly but it has not gone away, 87 countries reported ZIKV

transmission in 2019, with 49 of them in the Americas (mostly in Latin America). Data for 2020 to present have been difficult to ascertain as many arboviral disease surveillance has been interrupted during the COVID-19 pandemic which also suggests that conditions may be favorable for re-emergence of arboviral diseases including Zika. The question is are we ready for an emergence, what have we learned about transmission, especially among women and children, about the tools that can help with early detection and how reliable those tools really are? So despite the COVID-19 pandemic being overwhelming, understanding the current state and where we have made advances: 1) CDC will present a review on the state of Zika serodiagnostic testing, 2) development of a well-characterized panel collected from blood bank donors for calibrating and standardizing assays and test platforms for Zika diagnosis, 3) we will report on the challenges of diagnostics to identify emerging arboviruses, 4) results of ZikAlliance multi-year serial cohort samples (over 500) of pregnant women and children and categorization of the test results and 5) comparison of multiple commercial test platforms (Roche, Euroimmun) with well-characterized, serially collected, Zika-confirmed South American samples. We have deep experience to know that preparedness for rapid response needs to be underlaid with trusted and validated health systems and based on on knowledge of the evolving rapid nucleic and serological profiles. We also need to shift the paradigm on how we invest in medical countermeasures. We will end with a panel discussion what the needs are in Zika-prone emergence countries, what are the tools that can be applied and what steps can be done to shorten the time to the deployment, use, report and analysis of results so public health decisions and clinical decisions can be made quickly and without delay, not just for ZIKV response but applicable to other outbreak prone diseases.

CHAIR

May C. Chu
Colorado School of Public Health, Parker, CO, United States

Thomas Jaenisch
Colorado School of Public Health, Aurora, CO, United States

3 p.m.
INTRODUCTION

3:10 p.m.
ZIKA VIRUS SERODIAGNOSIS: IMPLICATIONS FOR IMPLEMENTATION FOR CLINICAL TESTING AND AS A SURVEILLANCE TOOL

Aaron C. Brault
Centers for Disease Control and Prevention, Ft. Collins, CO, United States

3:25 p.m.
DEVELOPMENT OF SEROLOGY AND MOLECULAR PANELS TO EVALUATE PERFORMANCE OF ZIKV ASSAYS- A WHO/FIND/VRI PROJECT

Mars Stone
Vitalant Research Institute, San Francisco, CA, United States

3:40 p.m.
CHALLENGES TOWARDS SEROLOGIC DIAGNOSTICS OF EMERGING ARBOVIRUSES

Carlo Fischer
University of Berlin, Berlin, Germany

3:55 p.m.
CATEGORIZATION OF ZIKA VIRUS DIAGNOSTICS AS A PLATFORM FOR TEST VALIDATION – LESSONS LEARNED FROM THE ZIKALLIANCE COHORT

Laura Pezzi
Aix-Marseille University, Marseille, France

4:10 p.m.
PERFORMANCE OF ANTI-ZIKV SEROLOGICAL ASSAYS IN SEQUENTIAL BLOOD SAMPLES IN THE ZIKALLIANCE COHORT

Thomas C. Jaenisch
Colorado School of Public Health, Aurora, CO, United States

Scientific Session 124

Pneumonia, Respiratory Infections and Tuberculosis II

Convention Center - Room 613/614 (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

CHAIR

Michael Sciaudone
Tulane University, New Orleans, LA, United States

Jorge Cervantes
Texas Tech University, Lubbock, TX, United States

3 p.m. 1775

A NINE-GENE BLOOD-BASED SIGNATURE MEETS THE WORLD HEALTH ORGANIZATION TARGET PRODUCT PROFILES FOR DIAGNOSIS OF ACTIVE TUBERCULOSIS AND PREDICTING PROGRESSION FROM LATENT TO ACTIVE DISEASE

Sanjana Gupta[1], Aditya Rao[1], Madeleine Scott[1], Valeriu Crudu[2], Timothy Rodwell[3], Donald Catanzaro[4], Antonino Catanzaro[3], Purvesh Khatri[1]
[1]Stanford University, Stanford, CA, United States, [2]Nicolae Testemitanu State University of Medicine and Pharmacy, Chisinau, Moldova, Republic of, [3]University of California, San Diego, San Diego, CA, United States, [4]University of Arkansas, Fayetteville, AR, United States

3:15 p.m. 1776

ADDRESSING VITAMIN DEFICIENCIES AMONG HOUSEHOLD CONTACTS OF TUBERCULOSIS PATIENTS IN INDIA

Giancarlo Buonomo[1], Chelsie Cintron[2], Prakash Babu Narasimhan[3], Komal Jain[3], Lindsey M. Lockes[4], Sheetal Verma[5], Pranay Sinha[2], Jerrold Ellner[5], Padmini Salgame[5], Subitha L. Lakshminarayanan[3], Natasha S. Hochberg[2]
[1]Boston University School of Medicine, Boston, MA, United States, [2]Section of Infectious Diseases, Department of Medicine, Boston University School of Medicine, Boston, MA, United States, [3]Department of Preventive and Social Medicine, JIPMER, Puducherry, India, [4]Department of Global Health, Boston University, Boston, MA, United States, [5]Department of Medicine, Center for Emerging Pathogens, Rutgers-New Jersey Medical School, Newark, NJ, United States

3:30 p.m. **1777**

IMPACT OF NUTRITION ON TUBERCULOSIS TREATMENT OUTCOMES IN INDIA: A MULTICENTER PROSPECTIVE COHORT ANALYSIS

Pranay Sinha[1], Chinnaiyan Ponnuraja[2], Nikhil Gupte[3], Senbagavalli P. Babu[4], Samyra R. Cox[5], Sonali Sarkar[4], vidya Mave[3], Mandar Paradkar[6], Chelsie Cintron[1], S. Govindarajan[7], Aarti Kinikar[8], Nadesan Priya[9], Sanjay Gaikwad[8], Balamugesh Thangakunam[9], Arutselvi Devarajan[10], Mythili Dhanasekaran[11], Jeffrey A. Tornheim[5], Amita Gupta[12], Padmini Salgame[13], Devashyam J. Christopher[9], Hardy Kornfeld[14], Vijay Viswanathan[10], Jerrold J. Ellner[15], C. R. Horsburgh, Jr.[1], Akshay N. Gupte[1], Chandrasekaran Padmapriyadarsini[16], Natasha S. Hochberg[1]

[1]Boston University, Boston, MA, United States, [2]Indian Council of Medical Research, National Institute for Research in Tuberculosis, Chennai, India, [3]Byramjee Jeejeebhoy Government Medical College and Sassoon General Hospitals- Johns Hopkins University Clinical Research Site, Pune, India, [4]Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India, [5]Division of Infectious Diseases, Center for Clinical Global Health Education, Johns Hopkins University, School of Medicine, Baltimore, MD, United States, [6]Johns Hopkins India, Pune, India, [7]National Tuberculosis Elimination Programme, Puducherry, India, [8]Byramjee Jeejeebhoy Government Medical College and Sassoon General Hospitals, Pune, India, [9]Christian Medical College, Vellore, India, [10]Prof. M. Viswanathan Diabetes Research Centre, Chennai, India, [11]Prof. M. Viswanathan Diabetes Research Centre,, Chennai, India, [12]Division of Infectious Diseases, Center for Clinical Global Health Education, Johns Hopkins University, School of Medicine,, Baltimore, MD, United States, [13]Center for Emerging Pathogens, Department of Medicine, New Jersey Medical School, Rutgers Biomedical and Health Sciences,, Newark, NJ, United States, [14]Department of Medicine, University of Massachusetts Chan Medical School, Worcester, MA, United States, [15]Center for Emerging Pathogens, Department of Medicine, New Jersey Medical School, Rutgers Biomedical and Health Sciences, Newark, NJ, United States, [16]Indian Council of Medical Research, National Institute for Research in Tuberculosis,, Chennai, India

3:45 p.m. **1778**

A SYSTEMATIC REVIEW AND META-ANALYSIS OF STRATEGIES TO QUANTIFY CATASTROPHIC COSTS DUE TO TUBERCULOSIS AND ACHIEVE THE WORLD HEALTH ORGANIZATION TARGET OF THEIR ELIMINATION

Paula P. Carballo-Jimenez[1], Sumona Datta[2], Rubén Aguirre-Ipenza[3], Matthew J. Saunders[1], Luz Quevedo Cruz[1], Carlton A. Evans[1]

[1]Imperial College London, London, United Kingdom, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [3]Universidad Continental, Lima, Peru

4 p.m. **1779**

RESISTANCE PATTERNS AMONG MULTIDRUG-RESISTANT TUBERCULOSIS PATIENTS IN GABON: TRENDS-OVER-TIME ANALYSIS OF THE NATIONAL SURVEILLANCE DATA AND IMPACT OF XPERT MTB/RIF AND DECENTRALIZED CARE ON CASE-FINDING

Bayode Romeo Adegbite, Jabar Babatunde Pacome Achimi Agbo Abdul, Ayola Akim Adegnika, Martin Peter Grobusch

Centre de Recherches Médicales de Lambaréné, Lambarene, Gabon

4:15 p.m. **1780**

RAPID DETECTION OF MYCOBACTERIUM TUBERCULOSIS USING RECOMBINASE POLYMERASE AMPLIFICATION: A PILOT STUDY

Michael Sciaudone[1], Maritza Calderón[2], Jorge Coronel[2], Robert H. Gilman[3], Natalie M. Bowman[1]

[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Johns Hopkins University, Baltimore, MD, United States

4:30 p.m. **1781**

HEALTH FACILITIES IMPROVE UTILIZATION OF AMOXICILLIN TO MANAGE CHILDHOOD PNEUMONIA THROUGH DRUG USE EVALUATION IN ETHIOPIA

Fikreslassie Alemu[1], Yoseph Wakoya[1], Abebaw Gulent[1], Belete Ayalneh[1], Gulilat Teshome[1], Edmealem Ejigu[1], Tesfaye Seifu[1], Helen Tesfaye[1], Elias Geremew[1], Sami Tewfik[1], Bekele Ashagire[2]

[1]USAID Global Health Supply Chain Program-Procurement and Supply Management project, Addis Ababa, Ethiopia, [2]USAID Health Office in Ethiopia, Addis Ababa, Ethiopia

Symposium 125

Building a Global Emerging Infectious Disease Research Network during a Pandemic

Convention Center - Room 615/616/617 (6th Floor)

Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

Emerging and re-emerging infectious diseases (EIDs) have been occurring with increasing frequency, threatening human health and security globally. Documented challenges with resource sharing (e.g., samples, assays, data) have limited the research community's ability to respond rapidly and in a coordinated fashion to an EID outbreak—the COVID-19 pandemic has brought these challenges into stark relief. In addition, gaps in physical resources (e.g., infrastructure) and methodological harmonization (e.g., standardized sampling approaches, laboratory assays, research protocols, data analysis) pose further challenges—identifying those gaps is a key first step to correcting them. In 2020, the National Institute of Allergy and Infectious Diseases launched a new global EID research network to study pathogens with a high likelihood of spillover into the human population (e.g., arboviruses, filoviruses, coronaviruses, bunyaviruses) and to facilitate a rapid research response at the emergence of a new pandemic threat. This network, the Centers for Research in Emerging Infection Diseases (CREID), consists of a Coordinating Center and 10 Research Centers, as well as their affiliated sites (40+ laboratories, 90+ overall) in 30+ countries. CREID is establishing a sustainable, scalable, and adaptable research infrastructure that will optimize resource and knowledge sharing between outbreaks and rapidly pivot research efforts to novel or emerging viral threats. During the COVID-19 pandemic, CREID Research Centers have focused on critical SARS-CoV-2 work in LMIC settings while also researching pathogens that could cause the next pandemic. In addition, CREID has been identifying knowledge and resource gaps that should be filled prior to the next pandemic, with the goal of developing plans with USG and international stakeholders to address those gaps. This symposium will feature an overview of CREID by NIAID as well as presentations of EID research being conducted at representative research centers, highlighting work in Central America, East and Central Africa, and Southeast Asia. The presentations will feature recent work on the primary pathogens of concern for each geographic region, how each Research Center has supported SARS-CoV-2 research in their region in addition to their primary mission, and what lessons they have learned about creating and/or expanding their research network in their

geographic sphere. A key focus of each presentation will be gaps identified during the current pandemic and how CREID is working within the network and with external stakeholders to address those gaps.

CHAIR

M. Anthony (Tony) Moody
Duke University, Durham, NC, United States

3 p.m.
INTRODUCTION

3:05 p.m.
OVERVIEW OF THE CREID NETWORK AND NIAID PANDEMIC PREPAREDNESS EFFORTS

Sara Woodson
National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

3:25 p.m.
CAPACITY BUILDING AND EID RESEARCH IN THE A2CARES NETWORK

Josefina Coloma
University of California, Berkeley, Berkeley, CA, United States

3:45 p.m.
DOMESTICATED ANIMALS AS SOURCES OF VIRUS CONTACT IN THE CREID-ECA NETWORK

M. Karuiki Njenga
Washington State University, Pullman, WA, United States

4:05 p.m.
SYLVATIC RESERVOIRS OF VIRUS CONTACT IN THE EID-SEARCH NETWORK

Supaporn Wacharapluesadee
King Chulalongkorn Memorial Hospital and Chulalongkorn University, Bangkok, Thailand

Symposium 126

Towards a New Standard for Managing Lymphedema Associated with Lymphatic Filariasis: Lessons from the LEDoxy and TAKeOFF Studies

Convention Center - Room 618/619/620 (6th Floor)
Wednesday, November 2, 3 p.m. - 4:45 p.m. U.S. Pacific Time Zone

This symposium will present the results and implications of 5 coordinated clinical trials aimed at 1) defining and quantifying the long-term (2-year) outcomes of WHO's current hygiene-focused recommendations for managing lymphedema (LE) and elephantiasis (E) in individuals with lymphatic filariasis and 2) testing the potential of 6-weeks of doxycycline as an adjunct to the current hygiene-based treatment regimen [since earlier studies had shown its potential effectiveness]. 1514 patients with LE/E were enrolled in 5 independent but coordinated, randomized, double-blind, placebo-controlled studies at sites in Ghana, India, Mali, Sri Lanka and Tanzania. Patients received a 6-week course of either doxycycline or placebo, and then all were supported fully for 2 years with WHO's recommended hygiene protocol. Detailed history and clinical evaluations were made at 14 time-points during the 2-year study; the patient completion rate was between 89 – 99% at all sites. (Study methods detailed in Horton et al, Parasites Vectors (2020) 13:155.) All studies have now closed, and while full analysis and aggregation of the multi-site data are not yet complete, several important conclusions from these clinical trials are apparent: 1) there was no significant difference between the outcomes of the placebo and the doxycycline-treated patients in essentially any of the multiple study parameters, at any time-point and at any site [interpretations and implications to be discussed]; 2) However, a substantial proportion of the participants (15-40% at the different sites) documented improvement of their LE clinical stage during the 2-year study, with most of the rest remaining clinically stable; very few (2-13%) showed LE progression 3) the participants' Quality of Life (measured by WHODAS) also improved at all study sites. For 25 years WHO has published documents describing 'best practices' for managing patients with LE based on experiences of clinicians and health workers, but rarely on detailed clinical trials. To create WHO guidelines requires greater rigor in data collection, and the present trials of 1514 people whose 2-year hygiene-based LE management was studied in detail will provide the documentation and insight to subsequently identify the best indicators for monitoring both patient and program success. Finally, since patient self-care is at the core of the hygiene strategy for LE management, the symposium will identify what is required of patients (understanding, training, resources) to be successful and also what is required of health systems both to facilitate patient compliance and success as well as to integrate this program with other similar activities that target disabling and stigmatizing diseases involving the skin.

CHAIR

Achim Hoerauf
Institute of Medical Microbiology, Immunology and Parasitology, Bonn, Germany

Sarah M. Sullivan
Task Force for Global Health, Decatur, GA, United States

3 p.m.
INTRODUCTION

3:10 p.m.
DOXYCYCLINE AND/OR HYGIENE - PAST AND PRESENT TRIALS TO ASSESS THE VALUE OF THE DIFFERENT TOOLKITS FOR IMPROVEMENT OF FILARIAL LYMPHEDEMA

Ute Klarmann-Schulz
Institute for Medical Microbiology, Immunology and Parasitology, Bonn, Germany

3:30 p.m.
DOES DOXYCYCLINE PROVIDE ADDITIONAL BENEFITS TO GOOD LIMB HYGIENE IN LF LYMPHEDEMA? THE LEDOXY AND TAKEOFF TRIAL RESULTS

Yaya Ibrahim Coulibaly
Unit for Training and Research in Neglected Tropical Diseases, International Center for Excellence in Research - Mali, Bamako, Mali

3:50 p.m.
WHO RECOMMENDATIONS FOR LYMPHEDEMA MANAGEMENT: PAST, PRESENT AND FUTURE
Jonathan King
World Health Organization, Geneva, Switzerland

4:10 p.m.
CHALLENGES REGARDING PATIENT SELF-CARE TRAINING AND SUSTAINABILITY IN IMPLEMENTING THE WHO RECOMMENDATION FOR LF MANAGEMENT
Suma Krishnasastry
Govt T D Medical College, Kerala, Alappuzha, India

4:30 p.m.
IMPLEMENTATION OF NEW GUIDELINES FOR LYMPHEDEMA MORBIDITY MANAGEMENT INTO THE PROGRAMS OF NATIONAL HEALTH SERVICES IN LF ENDEMIC COUNTRIES
Alkili Kalinga
National Institute for Medical Research (NIMR), Dar es Salaam, United Republic of Tanzania

Poster Session C Dismantle

Convention Center - Room 4A (4th Floor)
Wednesday, November 2, 4 p.m. - 6:15 p.m. U.S. Pacific Time Zone

Special Session 127

Speed-Networking with the Experts

Convention Center - Room 2AB (2nd Floor)
Wednesday, November 2, 5 p.m. - 6:45 p.m. U.S. Pacific Time Zone

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.

Sponsored Symposium

The Road to Malaria Elimination Using Community Health Structures with Private Sector Support in Bonny Island, Nigeria

Convention Center - Room 602/604 (6th Floor)
Wednesday, November 2, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone
Sponsored by Nigeria LNG Limited (NLNG)
See page 57 for information.
This session does not carry ASTMH CME credit.

Sponsored Symposium

Challenges in Malaria Diagnostics and the Need for Next Generation Tests

Convention Center - Room 611/612 (6th Floor)
Wednesday, November 2, 5:15 p.m. - 7 p.m. U.S. Pacific Time Zone
Sponsored by Abbott

See page 58 for information.
This session does not carry ASTMH CME credit.

Thursday, November 3

Registration

Convention Center - Atrium Lobby (4th Floor)
Thursday, November 3, 7 a.m. - 10:30 a.m. U.S. Pacific Time Zone

Speaker Ready Room

Convention Center - Room 310 (3rd Floor)
Thursday, November 3, 7 a.m. - 11:30 a.m. U.S. Pacific Time Zone

Meeting Sign-Up Rooms

Convention Center - Rooms 213 and 214 (2nd Floor)
Thursday, November 3, 7 a.m. - 1 p.m. U.S. Pacific Time Zone

ASTMH Board of Directors Meeting

Sheraton - Cirrus Ballroom (Pike Street Tower - 35th Floor)
Thursday, November 3, 7 a.m. - 8 a.m. U.S. Pacific Time Zone

Scientific Session 128

LIVE STREAMING Malaria: Prevention - Several Strategies

Convention Center - Room 6AB (6th Floor)
Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Mahamadou Diakite
MRTC-USTTB, Bamako, Mali

Julie Thwing
CDC, Atlanta, GA, United States

8 a.m. 1782

THE DURATION OF PROTECTION AGAINST CLINICAL MALARIA PROVIDED BY THE COMBINATION OF SEASONAL RTS,S/AS01E VACCINATION AND SEASONAL MALARIA CHEMOPREVENTION, VERSUS EITHER INTERVENTION GIVEN ALONE

Matthew Cairns[1], Amadou Barry[2], Issaka Zongo[3], Issaka Sagara[2], Rakiswende Serge Yerbanga[4], Modibo Diarra[2], Charles Zoungrana[4], Djibrilla Issiaka[2], Abdoul Aziz Sienou[4], Amadou Tapily[2], Koualy Sanogo[2], Mahamadou Kaya[2], Seydou Traore[4], Kalifa Diarra[2], Hama Yalcouye[2], Youssoufa Sidibe[2], Alassane Haro[4], Ismaila Thera[2], Paul Snell[1], Jane Grant[1], Halidou Tinto[4], Paul Milligan[1], Daniel Chandramohan[1], Brian Greenwood[1], Alassane Dicko[2], Jean Bosco Ouedraogo[4]
[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]Malaria Research and Training Center, Bamako, Mali, [3]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, Burkina Faso, [4]Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso

8:15 a.m. 1783

NON-RANDOMIZED CONTROLLED TRIAL TO ASSESS THE PROTECTIVE EFFECTIVENESS OF FIVE CYCLES OF SULFADOXINE/PYRIMETHAMINE AND AMODIAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION AMONG CHILDREN 3 TO 59 MONTHS, IN THE CONTEXT OF HIGH ANTIFOLATE AND AMINOQUINOLINE RESISTANCE, KARAMOJA REGION, UGANDA

Anthony Nuwa[1], Musa Odongo[1], James K. Tibenderana[2], Kevin N. Baker[2], Christian Rassi[2], David Salandini O. Odong[1], Maureen Nakirunda[1], Tonny Kyagulanyi[1], Craig Bonnington[2], Jane Achan[2], Madeleine Marasciulo-Rice[3], Godfrey Magumba[1], Sol Richardson[2], Jane I. Nabakooza[4], Damian Rutazaana[4], Denis Rubahika[4], Junior Achia[1], Stella B. Sali[1], Hilda Abio[1], Chrisestome Muhereza[1], Jimmy Opigo[4]
[1]Malaria Consortium, Kampala, Uganda, [2]Malaria Consortium, London, United Kingdom, [3]Malaria Consortium, Raleigh, NC, United States, [4]Ministry of Health, Uganda, Kampala, Uganda

8:30 a.m. 1784

INTERMITTENT PREVENTIVE TREATMENT WITH DIHYDROARTEMISININ-PIPERAQUINE FOR THE PREVENTION OF MALARIA IN PREGNANCY: IMPLEMENTATION FEASIBILITY IN A ROUTINE HEALTHCARE SYSTEM SETTING IN WESTERN KENYA

Hellen C. Barsosio[1], Jayne Webster[2], Frederick Omiti[1], Alloys K'Oloo[1], Michael A. Ojuok[1], Dawn Odiwa[1], Benson Omondi[1], Elizabeth Okello[1], Feiko O. ter Kuile[3], Maia Lesosky[3], Simon Kariuki[1], Jenny Hill[3]
[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]London School of Hygiene and Tropical Medicine, London, United Kingdom, [3]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:45 a.m. 1785

PERFORMANCE AND LONGEVITY OF SEVEN BRANDS OF LONG-LASTING INSECTICIDAL NETS (LLINS) UNDER VARIOUS FIELD CONDITIONS IN AFRICA, EXAMPLE OF BENIN AFTER THREE YEARS OF MONITORING

Idelphonse B. Ahogni[1], Jean F. Dagnon[2], Patrick Condo[3], Germain G. Padonou[1], Martin C. Akogbeto[1]
[1]Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, [2]Bill & Melinda Gates Foundation, Abuja, Nigeria, [3]USAID, Cotonou, Benin

9 a.m. 1786

COST-EFFECTIVENESS OF COMMUNITY-BASED DISTRIBUTION OF INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY

Laia Cirera[1], Francesco Ramponi[1], Maximo Ramírez[1], Clara Pons Duran[2], Mireia Llach[1], Antía Figueroa-Romero[1], Dachi Arikpo[3], Louise Ranaivo[4], Manu F. Manun'Ebo[5], Christina Maly[6], Elaine Roman[6], Raquel González[1], Franco Pagnoni[1], Elisa Sicuri[1], **Clara Menéndez**[1]
[1]ISGlobal, Barcelona, Spain, [2]Harvard T.H. Chan School of Public Health, Boston, MA, United States, [3]Cross River Health and Demographic Surveillance System, University of Calabar, Cross River State, Nigeria, [4]Malagasy Associates for Numerical Information and Statistical Analysis, Antananarivo, Madagascar, [5]Bureau d'Étude et de Gestion de l'Information Statistique (BEGIS), Kinshasa, Democratic Republic of the Congo, [6]Jhpiego, Maryland, MD, United States

9:15 a.m. 1787

MULTI-COUNTRY REVIEW OF ITN ROUTINE DISTRIBUTION DATA: ARE ANC AND EPI CHANNELS ACHIEVING THEIR POTENTIAL?

Jane E. Miller[1], Kezia Malm[2], Balla Kandeh[3], Serge A. Aimain[4], Marcellin J. Ateba[5], Doudou J. Sene[6], Mponeja P. Gitanya[7], Chouaibou S. Mohamadou[1], Lilia Gerberg[8], Luigi Nuñez[1]

[1]PSI, Washington, DC, United States, [2]National Malaria Control Programme, Accra, Ghana, [3]National Malaria Control Programme, Banjul, Gambia, [4]Service Suivi-Evaluation, Programme National de Lutte contre le Paludisme., Abidjan, Côte D'Ivoire, [5]Cameroon National Malaria Control Program, Yaounde, Cameroon, [6]Programme National de Lutte contre le Paludisme., Dakkar, Senegal, [7]National Malaria Control Programme, Dar es Salaam, United Republic of Tanzania, [8]President's Malaria Initiative, USAID., Washington, DC, United States

9:30 a.m. 1788

SYSTEMATIC REVIEW AND META-ANALYSIS OF SEASONAL MALARIA CHEMOPREVENTION ON MALARIA INCIDENCE

Julie Thwing, Irene Cavros, Julie R. Gutman

Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 129

LIVE STREAMING

SARS-CoV-2 and Other Viruses

Convention Center - Room 6C (6th Floor)

Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Benjamin Lee

University of Vermont Larner College of Medicine, Burlington, VT, United States

Scott Biering

University of California Berkeley, Berkeley, CA, United States

8 a.m. 1789

SARS-COV-2 SPIKE TRIGGERS BARRIER DYSFUNCTION AND VASCULAR LEAK VIA INTEGRINS AND TGF-B SIGNALING

Scott B. Biering[1], Francielle Tramontini Gomes de Sousa[1], Laurentia V. Tjang[1], Felix Pahmeier[1], Richard Ruan[1], Sophie F. Blanc[1], Trishna S. Patel[1], Caroline M. Worthington[2], Dustin R. Glasner[3], Bryan Castillo-Rojas[1], Venice Servellita[3], Nicholas T.N. Lo[1], Marcus P. Wong[1], Colin M. Warnes[1], Daniel R. Sandoval[4], Thomas Mandel-Clausen[4], Yale A. Santos[3], Victoria Ortega[5], Hector C. Aguilar[5], Jeffrey D. Esko[4], Charles Y. Chiu[3], John E. Pak[2], P. Robert Beatty[1], Eva Harris[1]

[1]Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Chan Zuckerberg Biohub, San Francisco, CA, United States, [3]Department of Laboratory Medicine, University of California, San Francisco, San Francisco, CA, United States, [4]Department of Cellular and Molecular Medicine, Glycobiology Research and Training Center, University of California, San Diego, San Diego, CA, United States, [5]Department of Microbiology and Immunology, Cornell University, Ithaca, NY, United States

8:15 a.m. 1790

BASELINE NATURAL KILLER CELL FREQUENCIES ARE GREATER IN INDIVIDUALS WITH ASYMPTOMATIC SARS-COV-2 INFECTION COMPARED TO THOSE THAT DEVELOP SYMPTOMATIC ILLNESS

Elizabeth Graydon[1], Alyssa Lindrose[1], Stephen K. Anderson[2], Allison Malloy[1], Stephen Lizewski[3], Rhonda Lizewski[3], Dawn Weir[4], Carl Goforth[4], Peifang Sun[4], Andrew G. Letizia[4], Edward Mitre[1]

[1]Uniformed Services University, Bethesda, MD, United States, [2]Frederick National Laboratory for Cancer Research, Frederick, MD, United States, [3]Naval Medical Research Unit 6, Lima, Peru, [4]Infectious Disease Directorate, Naval Medical Research Center, Silver Spring, MD, United States

8:30 a.m. 1791

RECENT MALARIA DOES NOT IMPACT COVID-19 ANTIBODY RESPONSE OR RATES OF SYMPTOMATIC SEROCONVERSION IN COMMUNITIES WITH HIGH MALARIA AND COVID-19 TRANSMISSION, MALI, WEST AFRICA

John Woodford[1], Issaka Sagara[2], Mahamadoun Hamady Assadou[2], Abdoulaye Katile[2], Oumar Attaher[2], Halimatou Diawara[2], Amatigue Zeguime[2], Justin Dortichamou[1], Irfan Zaidi[1], Alassane Dicko[2], Patrick Duffy[1]

[1]NIH, Bethesda, MD, United States, [2]MRTC, Bamako, Mali

8:45 a.m. 1792

MATERNAL BREAST MILK SECRETOR PHENOTYPE DOES NOT AFFECT INFANT SUSCEPTIBILITY TO ROTAVIRUS DIARRHEA

Benjamin Lee[1], Frank Williams[2], Md Abdul Kader[3], Dorothy M. Dickson[1], E. Ross Colgate[1], Masud Alam[4], Rashidul Haque[4], William A. Petri, Jr.[5], Beth D. Kirkpatrick[1]

[1]University of Vermont Larner College of Medicine, Burlington, VT, United States, [2]Ochsner Health, New Orleans, LA, United States, [3]Noakhali Science and Technology University, Noakhali, Bangladesh, [4]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [5]University of Virginia, Charlottesville, VA, United States

9 a.m. 1793

SAFETY AND IMMUNOGENICITY FROM A PHASE I CLINICAL TRIAL OF THE RIFT VALLEY FEVER VACCINE, CHADOX1 RVF, IN UK ADULTS

Daniel Wright[1], Daniel Jenkin[1], Pedro Folegatti[1], Abigail Platt[1], John N. Gitonga[2], Henry K. Karanja[2], Daisy Mugo[2], Ian Poulton[1], Alison Lawrie[1], Nguyen Tran[1], Amy Boyd[1], Sarah Gilbert[1], Bryan Charleston[3], Pontiano Kaleebu[4], Thomas A. Bowden[5], Adrian V. S. Hill[1], George M. Warimwe[2]

[1]Jenner Institute, University of Oxford, Oxford, United Kingdom, [2]KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya, [3]The Pirbright Institute, Pirbright, United Kingdom, [4]Medical Research Council / Uganda Virus Research Institute, Entebbe, Uganda, [5]Wellcome Centre for Human Genetics, Division of Structural Biology, University of Oxford, Oxford, United Kingdom

9:15 a.m. 1794

CYTOMEGALOVIRUS ASSOCIATED DEATHS: CASE REPORTS FROM KENYA AND MOZAMBIQUE'S CHILD HEALTH AND MORTALITY PREVENTION SURVEILLANCE NETWORK (CHAMPS) PROGRAM

Victor Akelo[1], Dianna M. Blau[2], Joyce Were[3], Aggrey K. Igunza[3], Dickson Gethi[3], Sammy Khagayi[3], Richard Omore[3], Clayton Onyango[1], Elisio Xerinda[4], Justina M. Bramugy[4], Rosauro Varo[4], Dickens Onyango[5], Beth A. T. Barr[6], Marc Bulterys[1], Cynthia G. Whitney[7], Quique Bassat[8]

[1]US Centers for Disease Control and Prevention-Kenya, Kisumu and Nairobi, Kenya, [2]US Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Kenya Medical Research Institute, Center for Global Health Research, Kisumu, Kenya, [4]Centro de Investigação em Saúde de Manhiça (CISM), Manhiça, Mozambique, [5]Kisumu County Health Department, Kisumu, Kenya, [6]Nyanja Health Research Institute, Salima, Malawi, [7]Emory Global Health Institute, Emory University, Atlanta, GA, United States, [8]ISGlobal, Barcelona Institute for Global Health, Hospital Clínic - Universitat de, Barcelona, Spain

9:30 a.m. 1795

NON-HUMAN PRIMATES REPLICATE CONSERVED HUMAN RESPONSES TO RNA VIRAL INFECTIONS, WITH VIRAL FAMILY-ASSOCIATED DIFFERENCES IN RESPONSE DYNAMICS

Kalani Ratnasiri, Catherine Blish, Purvesh Khatri

Stanford, Palo Alto, CA, United States

Scientific Session 130

Clinical Tropical Medicine: Maternal and Child Health

Convention Center - Room 6E (6th Floor)

Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Nadia A. Sam-Agudu

International Research Center of Excellence, Institute of Human Virology Nigeria, Abuja, Nigeria

Elizabeth Gulleen

Fred Hutchinson Cancer Research Center, Seattle, WA, United States

8 a.m. 1796

TEST COVERAGE AND PREVALENCE OF HIV, HEPATITIS B VIRUS AND SYPHILIS AMONG PREGNANT WOMEN IN NORTH SHEWA ZONE, ETHIOPIA

Delayehu Bekele[1], Fanos Gebremeskel[2], Frederick G. B. Goddard[3], Bezawit M. Hunegnaw[4], Yahya Mohammed[2], Mesfin Zeleke[2], Chalachew Bekele[2], Grace J. Chan[3]

[1]Department of Obstetrics and Gynecology, Saint Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [2]Birhan HDSS, Saint Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [3]Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States, [4]Department of Pediatrics and Child Health, Saint Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia

8:15 a.m. 1797

PREVALENCE OF CURABLE SEXUALLY TRANSMITTED AND REPRODUCTIVE TRACT INFECTIONS AMONG PREGNANT WOMEN IN KENYA, MALAWI, AND TANZANIA, 2017-20

Georgia R. Gore-Langton[1], Ulla Ashorn[2], Julie R. Gutman[3], Crispin Mukerebe[4], Alphaxard Manjurano[4], Pius Ikigo[4], Matthew E. Cairns[1], Patricia Hunter[5], Nigel Klein[5], Feiko O ter Kuile[6], R. Matthew Chico[1]

[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]University of Tampere, Tampere, Finland, [3]US Centers for Diseases Control and Prevention, Atlanta, GA, United States, [4]National Institute for Medical Research, Mwanza, United Republic of Tanzania, [5]University College London, London, United Kingdom, [6]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:30 a.m. 1798

EFFECTS OF MATERNAL INTRAVENOUS IRON TREATMENT DURING PREGNANCY ON CHILD MORBIDITY IN THE FIRST POSTPARTUM YEAR IN MALAWI: A RANDOMIZED CONTROLLED TRIAL

Glory Mzembe[1], Gomezgani Mhango[2], Mphatso Mwambinga[2], Zinenani Truwah[2], William Nkhono[1], Sant-Rayn Parischa[3], Martin N. Mwangi[2], Kamija S. Phiri[2]

[1]Kamuzu University of Health Sciences, Blantyre, Malawi, [2]Training and Research Unit of Excellence (TRUE), Blantyre, Malawi, [3]Population Health and Immunity Division, The Walter and Eliza Hall Institute of Medical Research (WEHI), Melbourne, Australia

8:45 a.m. 1799

BARRIERS TO ACCESS, SUPPLY AND DEMAND FOR CHILD IMMUNIZATION SERVICES AMONG CAREGIVERS OF CHILDREN UNDER FIVE YEARS IN WAJIR, MANDERA AND KIBRA COUNTIES, KENYA

Cynthia A. Ngesa[1], Misiko T. Linda[1], Hassan Mumin[1], Bentinck S. Ochieng'[1], Rashed Shah[2]

[1]Save the Children International Kenya, Nairobi, Kenya, [2]Save the Children US, Washington, DC, United States

9 a.m. 1800

PREVALENCE AND CORRELATES OF PEDIATRIC INPATIENT GUIDELINE NON-ADHERENCE FOR INITIAL MANAGEMENT OF COMMON CONDITIONS IN SIX LOW AND MIDDLE-INCOME COUNTRIES

Riffat Ara Shawon[1], Donna M. Denno[1], Kirkby D. Tickell[1], Michael Atuhairwe[2], Robert H J Bandsma[3], Ezekiel Mupere[2], Wieger Voskuijl[4], Emmie Mbale[5], Md. Jobayer Chisti[6], Tahmeed Ahmed[6], Ali Faisal Saleem[7], Moses Ngari[8], Abdoulaye Hama Diallo[9], James A. Berkley[10], Judd L. Walson[1], Arianna R. Means[1]

[1]University of Washington, Seattle, WA, United States, [2]Makerere University, Kampala, Uganda, [3]University of Toronto, Toronto, ON, Canada, [4]Amsterdam University Medical Center, Amsterdam, Netherlands, [5]University of Malawi, Zomba, Malawi, [6]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [7]Aga Khan University Hospital, Karachi, Pakistan, [8]KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya, [9]University Joseph KI-ZERBO, Ouagadougou, Burkina Faso, [10]University of Oxford, Kilifi, Kenya

9:15 a.m. 1801

MACHINE LEARNING-BASED PREDICTION OF CLINICAL OUTCOMES FOR CHILDREN USING LINKED ELECTRONIC HEALTH RECORDS IN MANHIÇA DISTRICT, MOZAMBIQUE

Sham Lal

London School of Hygiene and Tropical Medicine, London, United Kingdom

9:30 a.m. 1802

AGE- AND HEIGHT-BASED APPROACHES TO SIMPLIFY DOSING OF ORAL AZITHROMYCIN FOR CHILDREN 1-11 MONTHS OLD IN MASS DISTRIBUTION PROGRAMS FOR CHILD SURVIVAL

Huiyu Hu[1], Ahmed M. Arzika[2], Ali Sie[3], Amza Abdou[4], Ramatou Maliki[2], Alio K. Mankara[2], Mamadou Bountogo[3], Mamadou Ouattara[3], Valentin Boudo[3], Fanny Yago-Wienne[5], Issouf Bamba[5], Charles A. Knirsch[6], Paul Emerson[7], PJ Hooper[7], Elodie Lebas[1], Jessica Brogdon[1], Fanice Nyatigo[1], Catherine E. Oldenburg[1], Tom M. Lietman[1], **Kieran S. O'Brien**[1]
[1]University of California, San Francisco, San Francisco, CA, United States, [2]Centre de Recherche et Interventions en Sante Publique, Niamey, Niger, [3]Centre de Recherche en Sante de Nouna, Nouna, Burkina Faso, [4]Programme Nationale de Sante Oculaire, Niamey, Niger, [5]Helen Keller International, Ouagadougou, Burkina Faso, [6]Pfizer, New York, NY, United States, [7]International Trachoma Initiative, Decatur, GA, United States

Symposium 131

The Invisible Burden: Measuring and Evaluating the Impact of Infectious Diseases on Cognition

Convention Center - Room 602/603/604 (6th Floor)
Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

Cognitive functioning is an important predictor of long-term well-being and economic success and a necessary component of equity. However, the impact of infectious diseases on neurocognition is understudied due to the complexity of evaluating and defining neurocognitive outcomes. There is evidence indicating that numerous infectious diseases may negatively affect neurocognitive function in humans. These effects are observed across the lifespan: *in utero* exposure to maternal infection has been linked to delayed neurocognitive development, and later-in-life diagnosis of autism or psychiatric disorders. HIV, intestinal parasites, and malaria infections in childhood are associated with neurological symptoms, and multiple infections have been linked to cognitive declines in adults. The burden of neurocognitive damage as a result of infectious exposures is of particular interest today, in the midst of a global pandemic which has infected a large fraction of the global population and is associated with a plethora of long-term neurocognitive symptoms. While COVID-19 was initially perceived as a disease primarily afflicting the elderly, it has since been demonstrated that even individuals with mild SARS-CoV-2 infections may develop long-lasting neurological symptoms. The methodology behind answering these questions remains complex and fraught with the risk of confounding due to socioeconomic and other environmental factors. Tools for measuring neurocognitive function are both numerous and highly specific to individual populations, making comparisons difficult between populations. Confounding factors, including nurture, education, exposure to adversity, and malnutrition, are similarly diverse, difficult to measure, and peculiar to specific settings. This symposium brings together a multi-disciplinary group of researchers including psychologists, infectious disease epidemiologists, and neuroscientists studying a variety of infectious diseases and their diverse neurocognitive impacts throughout life. The first two presentations discuss the complexity of studying exposure to viral infection *in utero*, examining maternal HIV and arboviral infection, respectively. The third presentation will focus on the cognitive consequences of prolonged exposure to parasites among school-aged children, and the final presentation will provide an overview on the current state of research on the long-term neurological symptoms of SARS-CoV-2 infection. Bringing together diverse researchers, this symposium will provide a forum to discuss the shared challenges and potential solutions to evaluating the impact of infectious disease on cognition across disease systems and populations.

CHAIR

Andrea G. Buchwald
University of Maryland School of Medicine, Baltimore, MD, United States

Maria M. Crespo-Llado
University of Liverpool, Liverpool, United Kingdom

8 a.m.
INTRODUCTION

8:10 a.m.
HIV-EXPOSED UNINFECTED (HEU) MALAWIAN INFANTS AND NEUROCOGNITIVE DEVELOPMENT: THE REFINE STUDY

Limbika Maliwichi
University of Malawi, Zomba, Malawi

8:30 a.m.
PRENATAL ARBOVIRUS EXPOSURE AND NEURODEVELOPMENTAL RISK

Karen Blackmon
Mayo Clinic, Jacksonville, FL, United States

8:50 a.m.
MALARIA IN SCHOOLCHILDREN: IMPACTS ON COGNITION AND EDUCATION

Lauren Cohee
University of Maryland School of Medicine, Baltimore, MD, United States

9:10 a.m.
NEUROLOGICAL COMPLICATIONS OF SARS-COV-2

Paul Edison
Imperial College London, London, United Kingdom

Scientific Session 132

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa: Epidemiology

Convention Center - Room 605/610 (6th Floor)
Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Natalie Bowman
University of North Carolina, Chapel Hill, NC, United States

Marina Antillon
Swiss TPH, Allschwil, Switzerland

8 a.m.

1803

MOVING AWAY FROM VERTICAL INTERVENTIONS: PROJECTION AND COST-EFFECTIVENESS OF VARIOUS SLEEPING SICKNESS CONTROL STRATEGIES IN CÔTE D'IVOIRE

Samuel A. Sutherland[1], Minayégninrin Koné[2], Guy Pacôme Adingra[3], Bamoro Coulibaly[4], Paul R. Bessell[5], Marcelline Soro[6], Ronald E. Crump[1], Ching-I Huang[1], Marina Antillon[7], Jason Madan[8], Lingué Kouakou[9], Dramane Kaba[4], Veerle Lejon[10], Emmanuel K. N'Gouan[11], Mathurin Koffi[12], Vincent Jamonneau[10], Kat S. Rock[1]
[1]Zeeman Institute for System Biology and Infectious Disease Epidemiology Research, The University of Warwick, Coventry, United Kingdom, [2]Laboratoire d'Ecologie, Biodiversité et Evolution, Unité de Recherche en Génétique et Epidémiologie Moléculaire, UFR Environnement, Université Jean Lorougnon Guédé, Daloa, Côte D'Ivoire, [3]Institut de Recherche pour le Développement (IRD), Bouaké, Côte D'Ivoire, [4]Unité de Recherche « Trypanosomoses », Institut Pierre Richet, Bouaké, Côte D'Ivoire, [5]Independent consultant, Edinburgh, United Kingdom, [6]Université de Bouaké, Bouaké, Côte D'Ivoire, [7]Swiss Tropical and Public Health Institute, University of Basel, Basel, Switzerland, [8]Centre for Health Economics at Warwick (CHEW), Warwick Medical School, Coventry, United Kingdom, [9]Programme National d'Elimination de la Trypanosomiase Humaine Africaine (PNETHA), Ministère de la Santé de l'Hygiène Publique et de la Couverture maladie Universelle, Abidjan, Côte D'Ivoire, [10]Institut de Recherche pour le Développement (IRD), Montpellier, France, [11]Projet de Recherches Cliniques sur la Trypanosomiase (PRCT), Daloa, Côte D'Ivoire, [12]Laboratoire de Biodiversité et Gestion des Ecosystèmes Tropicaux, Unité de Recherche en Génétique et Epidémiologie Moléculaire, UFR Environnement, Université Jean Lorougnon Guédé, Daloa, Côte D'Ivoire

8:15 a.m.

1804

ESTIMATING THE PROPORTION OF RELAPSE FOLLOWING TREATMENT OF VISCERAL LEISHMANIASIS (VL): META-ANALYSIS USING INFECTIOUS DISEASES DATA OBSERVATORY (IDDO) LIVING SYSTEMATIC REVIEW

Rutuja Chhajed[1], **Prabin Dahal**[1], Sauman Singh-Phulgenda[1], Matthew Brack[1], Fabiana Alves[2], Kasia Stepniewska[1], Philippe Guerin[1]
[1]Infectious Diseases Data Observatory, Oxford, United Kingdom, [2]Drugs for Neglected Diseases initiative, Geneva, Switzerland

8:30 a.m.

1805

ELIMINATION OF ONCHOCERCIASIS TRANSMISSION IN THREE FOCI OF UGANDA

Lauri Bernard[1], David Oguttu[2], Harriet Sengendo[3], Annet Khainza[3], Edson Byamukama[3], Moses Katabarwa[1], Christine Nahabwe[2], Monica Ngabirano[2], Paul Akampurira[2], Alfred Mubangizi[2], Thomas Unnasch[4], Gregory S. Noland[1], Frank O. Richards[1]
[1]The Carter Center, Atlanta, GA, United States, [2]Ministry of Health, Kampala, Uganda, [3]The Carter Center, Kampala, Uganda, [4]University of South Florida, Tampa, FL, United States

8:45 a.m.

1806

COST-EFFECTIVENESS AND PREMIUM OF GHAT ELIMINATION CAMPAIGNS IN THE DRC

Marina Antillon[1], Ching-I Huang[2], Ronald E. Crump[2], Samuel A. Sutherland[3], Paul Brown[3], Emily Crowley[3], Rian Snijders[4], Andrew Hope[5], Paul Bessell[6], Iñaki Tirados[5], Chancy Shampa[7], Junior Lebuki[7], Erick Miaka[7], Fabrizio Tediosi[1], Kat S. Rock[3]
[1]Swiss TPH, Allschwil, Switzerland, [2]Warwick University, Coventry, United Kingdom, [3]University of Warwick, Coventry, United Kingdom, [4]Institute of Tropical Medicine - Antwerp, Antwerp, Belgium, [5]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [6]The University of Edinburgh, Edinburgh, United Kingdom, [7]PNLTHA, Kinshasa, Democratic Republic of the Congo

9 a.m.

1807

CAN ACOZIBOROLE IN A "SCREEN AND TREAT" APPROACH CHANGE THE END-GAME TRAJECTORY OF SLEEPING SICKNESS IN THE PRESENCE OF ASYMPTOMATIC INFECTIONS?

Ching-I Huang[1], Ron Crump[1], Samuel Sutherland[1], Maryam Aliee[1], Shampa Chansy[2], Erick Mwamba Miaka[2], Kat Rock[1]
[1]The University of Warwick, Coventry, United Kingdom, [2]Programme National de Lutte contre la Trypanosomiase Humaine Africaine (PNLTHA), Kinshasa, Democratic Republic of the Congo

9:15 a.m.

1808

FROM SEROLOGICAL SURVEYS TO DISEASE BURDEN: A MODELLING PIPELINE FOR CHAGAS DISEASE

Julia Ledien[1], Zulma Cucunubá[2], Gabriel Parra-Henao[3], Eliana Rodríguez-Monguí[4], Andrew P. Dobson[5], Susana B. Adamo[6], María-Gloria Basáñez[7], Pierre Nouvellet[8]
[1]School of Life Sciences, University of Sussex, Brighton, United Kingdom, [2]Universidad Pontificia Javeriana, Bogotá, Colombia, [3]National Institute of Health, Bogotá, Colombia, [4]Pan American Health Organization (PAHO), Bogotá, Colombia, [5]Ecology & Evolutionary Biology, Princeton University, Princeton, NJ, United States, [6]Center for International Earth Science Information Network (CIESIN), Columbia Climate School, Columbia University, New York, NY, United States, [7]London Centre for Neglected Tropical Disease Research & MRC Centre for Global Infectious Disease Analysis, Imperial College London, London, United Kingdom, [8]School of Life Sciences,University of Sussex, Brighton, United Kingdom

9:30 a.m.

1809

SYMPTOMATIC GIARDIA INFECTION AND ITS IMPACT ON CHILD GROWTH IN A NICARAGUAN BIRTH COHORT

Lester Gutiérrez[1], Roberto Herrera[1], Yaoska Reyes[1], Fredman González[1], Patricia Blandón[1], Nadja A. Vielot[2], Fernando Salazar[1], Filemón Bucardo[1], Sylvia Becker-Dreps[2], Luther Bartelt[2], Samuel Vilchez[1]
[1]National Autonomous University of Nicaragua., León, Nicaragua, [2]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Scientific Session 133

Global Health: Global Health Security and (Re-) Emerging Infectious Diseases

Convention Center - Room 606/607 (6th Floor)

Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Kelly Anne Charniga
Centers for Disease Control and Prevention, Atlanta, GA, United States

Erin Eckert
PSI, Arlington, VA, United States

8 a.m.

1810

UPDATING REPRODUCTION NUMBER ESTIMATES FOR MONKEYPOX IN THE DEMOCRATIC REPUBLIC OF CONGO USING SURVEILLANCE DATA

Kelly Charniga[1], Andrea M. McCollum[1], Christine M. Hughes[1], Benjamin Monroe[1], Joelle Kabamba[2], Robert Shongo Lushima[3], Toutou Likafi[4], Beatrice Nguete[4], Emile Okitolonda Wemakoy[4], Jean-Jacques Muyembe Tamfum[5], Stomy Karhemere[5], Didine Kaba[4], Yoshinori Nakazawa[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Centers for Disease Control and Prevention, Kinshasa, Democratic Republic of the Congo, [3]Ministry of Health, Kinshasa, Democratic Republic of the Congo, [4]Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, [5]Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo

8:15 a.m.

1811

COMMCARE MOBILE APPLICATION HELPS PREVENT OUTBREAK OF RIFT VALLEY FEVER IN MADAGASCAR

Stéphanie Ranaivo[1], Fatou Sow[2], Ranoaritiana Dany Bakoly[3], Andry Rahajarison[4], Aishling Thurow[5], Laurence Laumonier-Ickx[5], Thomas Hall[5]

[1]Management Sciences for Health, Antananarivo, Madagascar, [2]Dimagi, Cambridge, MA, United States, [3]Ministère de la Santé Publique, Antananarivo, Madagascar, [4]USAID/ Madagascar, Antananarivo, Madagascar, [5]Management Sciences for Health, Medford, MA, United States

8:30 a.m.

1812

IDENTIFYING RECENT CHOLERA INFECTIONS USING A MULTIPLEX BEAD SEROLOGICAL ASSAY

Forrest K. Jones[1], Taufiqur R. Bhuiyan[2], Rachel Mills[3], Ashraful I. Khan[2], Damien Slater[3], Kian R. Hutt Vater[3], Fahima Chowdhury[2], Meagan Kelly[3], Peng Xu[4], Pavol Kovac[4], Rajib Biswas[2], Mohammad Kamruzzaman[3], Edward T. Ryan[3], Stephen B. Calderwood[3], Regina C. LaRocque[3], Justin T. Lessler[5], Richelle C. Charles[3], Daniel T. Leung[6], Firdausi Qadri[2], Jason B. Harris[3], Andrew S. Azman[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, [3]Massachusetts General Hospital, Boston, MA, United States, [4]National Institutes of Health, Bethesda, MD, United States, [5]University of North Carolina at Chapel Hill Gillings School of Global Public Health, Chapel Hill, NC, United States, [6]University of Utah School of Medicine, Salt Lake City, UT, United States

8:45 a.m.

1813

HOSPITAL ANTIBIOTIC POINT PREVALENCE SURVEY REVEALS HIGH RATES OF EMPIRIC ANTIBIOTIC PRESCRIBING AT TWO HOSPITALS IN ADDIS ABABA, ETHIOPIA

Ayako W. Fujita[1], Russell R. Kempker[1], Edlawit M. Getachew[2], Mahlet A. Gizaw[3], Jesse T. Jacob[1], Solomon Ali[3], Hayat Oumer[4], Ahmed Babiker[1], Liay S. Getachew[2], Bethelhem S. Woldetsadik[2], Paulina A. Rebolledo[1], Alemseged Abdissa[2], Kassa Haile[2]

[1]Division of Infectious Diseases, Department of Medicine, Emory University School of Medicine, Atlanta, GA, United States, [2]Armauer Hansen Research Institute, Addis Ababa, Ethiopia, [3]St. Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, [4]ALERT Hospital, Addis Ababa, Ethiopia

9 a.m.

1814

ACCEPTABILITY AND WILLINGNESS-TO-PAY FOR C-REACTIVE PROTEIN POINT-OF-CARE TESTING AT COMMUNITY PHARMACIES TO GUIDE ANTIBIOTIC TREATMENT IN PATIENTS WITH ACUTE RESPIRATORY INFECTIONS

Nguyen Vinh Nam[1], Quang Thai Pham[2], Thi Thuy Nga Do[1], Bich Phuong Bui[1], Rogier van Doorn[1], Sonia Lewycka[1]

[1]Oxford University Clinical Research Unit, Hanoi, Viet Nam, [2]National Institute of Hygiene and Epidemiology, Hanoi, Viet Nam

9:15 a.m.

1815

SIMPLE AND ECONOMICAL EXTRACTION OF VIRAL RNA AND STORAGE AT AMBIENT TEMPERATURE

Jesse J. Waggoner[1], Sarah Hernandez[1], Fátima Cardozo[2], David R. Myers[3], Alejandra Rojas[4]

[1]Emory University Department of Medicine, Atlanta, GA, United States, [2]Universidad Nacional de Asunción, Instituto de Investigaciones en Ciencias de la Salud, Departamento de Salud Pública, Asunción, Paraguay, [3]Emory University Wallace H. Coulter Department of Biomedical Engineering, Atlanta, GA, United States, [4]Universidad Nacional de Asunción, Instituto de Investigaciones en Ciencias de la Salud, Departamento de Producción, Asunción, Paraguay

9:30 a.m.

1816

EPSTEIN-BARR VIREMIA IN A CASE-CONTROL STUDY OF ACUTE FEBRILE ILLNESS IN THE PERUVIAN AMAZON: VIRAL DETECTION IN WHOLE BLOOD IS NOT SUFFICIENT TO ATTRIBUTE ACUTE FEBRILE ILLNESS

Thomas G. Flynn[1], Francesca Schiaffino Salazar[1], Maribel Paredes Olortegui[2], Paul F. Garcia Bardales[2], Wagner V. Shapiama López[2], Greisi E. Curico Huanci[2], Tackeshy N. Pinedo Vásquez[2], Pablo Peñataro Yori[1], César J. Ramal Asayag[3], Graciela R. Meza Sánchez[3], Josh M. Colston[1], Margaret N. Kosek[1]

[1]University of Virginia, Charlottesville, VA, United States, [2]AB PRISMA, Iquitos, Peru, [3]Universidad Nacional de la Amazonía Peruana, Iquitos, Peru

Scientific Session 134

Malaria: Vector Control - Threats to Current Tools and Evidence of New Tools

Convention Center - Room 608/609 (6th Floor)

Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

CHAIR

Eleanore D. Sternberg
Tropical Health, Liverpool, United Kingdom

Joseph Chabi
Abt Associates, Abidjan, Côte D'Ivoire

8 a.m.

1817

PROACTIVE COMMUNITY MALARIA CASE MANAGEMENT: ONGOING RANDOMIZED CONTROL TRIAL IN CHADIZA DISTRICT, EASTERN PROVINCE, ZAMBIA

Marie-Reine I. Rutagwera[1], Travis Porter[2], Bupe M. Kabamba[1], Sarah Gallalee[3], Chabu C. Kangale[1], John M. Miller[4], Caroline Phiri-Chibawe[1], Maximillian Musunse[1], Patrick Nyendwa[1], Viennah Kapenda[1], Paul Psychas[5], Julie R. Gutman[6], Adam Bennett[2], Busiku Hamainza[7], Julie I. Thwing[6]

[1]PAMO Plus, Lusaka, Zambia, [2]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Seattle, WA, United States, [3]University of California, San Francisco, San Francisco, CA, United States, [4]PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Lusaka, Zambia, [5]US President's Malaria Initiative (PMI), Centers for Disease Control and Prevention (CDC), Lusaka, Zambia, [6]Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, [7]Zambia Ministry of Health National Malaria Elimination Centre, Lusaka, Zambia

8:15 a.m. 1818

ENTOMOLOGICAL IMPACT OF IVERMECTIN MASS DRUG ADMINISTRATION TO HUMANS AND LIVESTOCK: A CLUSTER RANDOMIZED CONTROLLED TRIAL IN MOPEIA, MOZAMBIQUE

Caroline Kiuru[1], Caroline Wanjiku[2], Kelly Ominde[3], Jonathan Karisa[3], Luis Constantino[4], Gildo Cole[4], Eldo Elobolobo[4], Romário Armazia[4], Claida Alves[4], Paula Ruiz-Castillo[1], Regina Rabinovich[1], Carlos Chaccour[1], Francisco Saúte[4], Marta Maia[3]
[1]Barcelona Institute for Global Health, Barcelona, Spain, [2]KEMRI-Wellcome-Trust Research Program, Kilifi, Kenya, [3]KEMRI Wellcome Trust Research Programme, Kilifi, Kenya, [4]Centro de Investigação em Saúde, Maputo, Mozambique

8:30 a.m. 1819

NO EVIDENCE OF INTER-CLUSTER CONTAMINATION IN A CLUSTER RANDOMIZED TRIAL EVALUATION OF PBO LONG LASTING INSECTICIDAL NETS IN UGANDA (LLINEUP)

Daniel P. McDermott[1], Catherine Maiteki-Sebuguzi[2], Samuel Gonahasa[2], Moses R. Kamy[2], Agaba Katureebe[2], Amy Lynd[1], Peter Mutungi[2], Simon P. Kigozi[2], Jimmy Opigo[3], Janet Hemingway[1], Grant Dorsey[4], Sarah G. Staedke[5], Martin J. Donnelly[1]
[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Infectious Diseases Research Collaboration, Uganda, Kampala, Uganda, [3]National Malaria Control Division, Ministry of Health, Uganda, Kampala, Uganda, [4]Department of Medicine, University of California San Francisco, USA, San Francisco, CA, United States, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom

8:45 a.m. 1820

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], Jane F. Namuganga[1], Martha Nassali[1], Jaffer Okiring[1], Isaiah Nabende[1], Catherine M. Sebuguzi[2], Damian Rutazaana[2], Medard Rukaari[2], Jimmy Opigo[2], Joaniter I. Nankabirwa[1], Emmanuel Arinaitwe[1], Jessica Briggs[3], Martin Donnelly[4], Moses R. Kamya[1], Grant Dorsey[3], Sarah G. Staedke[5]
[1]Infectious Diseases Research Collaboration, Kampala, Uganda, [2]Ministry of Health (MOH/NMCD), Kampala, Uganda, [3]University of California, San Francisco, San Francisco, CA, United States, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [5]London School of Hygiene & Tropical Medicine, London, United Kingdom

9 a.m. 1821

EFFICACY OF PARTIAL VERSUS FULL SURFACE INDOOR RESIDUAL SPRAYING AGAINST WILD POPULATIONS OF *ANOPHELES GAMBIAE* SENSU LATO IN EXPERIMENTAL HUTS IN TIASSALÉ, CÔTE D›IVOIRE

Joseph Chabi[1], Aklilu Seyoum[1], Constant Edi[2], Bernard Loukou Kouassi[3], Yemane Yihdego[1], Richard Oxborough[1], Ben Johns[1], Seth Irish[4], John E. Gimnig[4], Jennifer Armistead[5], Lilia Gerberg[5], Matthew Kirby[1]
[1]Abt Associates, Rockville, WA, United States, [2]Swiss Center of Scientific Research, Abidjan, Côte D'Ivoire, [3]PMI VectorLink, Cote d'Ivoire, Côte D'Ivoire, [4]US President's Malaria Initiative, Entomology Branch, US Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]USAID / US President's Malaria Initiative, DC, WA, United States

9:15 a.m. 1822

DIGITIZATION OF VECTOR CONTROL CAMPAIGNS- LEVERAGING THE DHIS2 PLATFORM TO STRENGTHEN THE DELIVERY OF IRS CAMPAIGNS DURING COVID-19

Wilson Chauke[1], Ottias Tapfumanei[1], Brighton Gambinga[2], Andrew Tangwena[1], Zvoinzwawani Matiza[1], Samuel Gwerete[2], Joseph Zvoushoma[2], Rangarirai Sharara[2], Juliet Nyatsine[2], Patience Dhliwayo[1], Abaden Svisva[1]
[1]Zimbabwe National Malaria Programme, Harare, Zimbabwe, [2]Clinton Health Access Initiative, Boston, MA, United States

9:30 a.m. 1823

THE IMPACT OF INDOOR RESIDUAL SPRAYING (IRS) WITHDRAWAL IN THE LAKE ZONE REGIONS IN MAINLAND TANZANIA. SHOULD TANZANIA WITHDRAWAL ITS IRS PROGRAM?

Dismasi S. Mwalimu[1], William Kisinza[2], Stephen Magesa[3], Samson Kiware[4]
[1]Tanzania National Malaria Control Program, Dodoma, United Republic of Tanzania, [2]National Institute for Medical Research, Tanga, United Republic of Tanzania, [3]Pan African Mosquito Control Association, Nairobi, Kenya, [4]Ifakara Health Institute, Dar es salaam, United Republic of Tanzania

Symposium 135

Calcified Neurocysticercosis: Closing the Knowledge Gap

Convention Center - Room 611/612 (6th Floor)
Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific 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. Calcified disease in NCC was regarded as innocuous, but now there is accumulating data to the contrary. There is increasing evidence that calcified NCC, once thought to be inactive disease, plays a large role in both cause and maintenance of seizures and epilepsy. Emerging data also suggests an association between calcified parenchymal NCC and hippocampal atrophy which has suggested the possibility of inflammation-mediated hippocampal damage as the possible mechanism. New data on calcification of lesions in the subarachnoid space in subarachnoid neurocysticercosis will also be presented. This symposium will bring participants up to date on the current knowledge of calcified neurocysticercosis and lay the groundwork for future research.

CHAIR

Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

Hector H. Garcia
Universidad Peruana Cayetano Heredia, Lima, Peru

8 a.m.
INTRODUCTION

8:10 a.m.
DETERMINANT FACTORS FOR CALCIFICATION DEVELOPMENT IN PARENCHYMAL NEUROCYSTICERCOSIS

Javier A. Bustos
Universidad Peruana Cayetano Heredia, Lima, Peru

8:30 a.m.
CALCIFICATION IN SINGLE CYSTICERCAL GRANULOMA
Vedantam Rajshekar
Christian Medical College, Vellore, India

8:45 a.m.
PERI-CALCIFICATION EDEMA IN NEUROCYSTICERCOSIS: PATHOPHYSIOLOGY, COURSE, POTENTIAL TREATMENTS
Theodore E. Nash
National Institutes of Health, Bethesda, MD, United States

9:05 a.m.
HIPPOCAMPAL ATROPHY ASSOCIATED WITH CALCIFIED PARENCHYMAL BRAIN CYSTICERCOSIS. ALSO AN INFLAMMATORY ISSUE?
Oscar Del Brutto
Universidad de Especialidades Espíritu Santo, School of Medicine, Guayaquil, Ecuador

9:25 a.m.
RESIDUAL CALCIFICATION IN SUBARACHNOID NEUROCYSTICERCOSIS: DESCRIPTION AND CLINICAL IMPLICATIONS
Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

Symposium 136

Defining and Acting on Pneumonia Research Priorities – From Evidence to Impact

Convention Center - Room 613/614 (6th Floor)
Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific 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 to achieving Sustainable Development Goal (SDG) 3.2, which requires all countries to reduce their Child Mortality Rates to, "at least 25 deaths per 1,000 live births" by 2030. Successes in achieving Universal Health Coverage for children will also depend on whether countries provide quality services and care for children with pneumonia. However, improved vaccine coverage, timely case management with oral antibiotics for mild pneumonia, and oxygen therapy for severe pneumonia are still lacking in many low-resource settings. Further, access to accurate, usable and affordable diagnostics for effective management of pneumonia is also limited. Countries cannot make the required progress on child survival without tackling these challenges. 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 both research and policy innovation to improve pneumonia case management in children under five. In this symposium, the EBC Research Group will present primary research from four partners highlighting recent pneumonia-focused activities for driving forward an evidence-based policy agenda. The final 15 minutes will be dedicated to 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
Rebecca Nantanda
Makerere University Lung Institute, Kampala, Uganda

8 a.m.
INTRODUCTION

8:10 a.m.
RESULTS FROM AN EDELPHI RESEARCH PRIORITY SETTING EXERCISE
Kevin Baker
Malaria Consortium, London, United Kingdom

8:30 a.m.
RESULTS FROM THE PNEUMONIA CONTROL STRATEGY DEVELOPMENT EVALUATION IN CHAD AND ETHIOPIA
Tedila Habte
Malaria Consortium, Addis Ababa, Ethiopia

8:50 a.m.
RESULTS FROM A REVIEW OF CHILD PNEUMONIA LIVES SAVED AND THE RELATIVE COST-EFFECTIVENESS OF INVESTING IN MEDICAL OXYGEN
Felix Lam
Clinton Health Access Initiative, Boston, MA, United States

9:10 a.m.
RESULTS FROM AN ANALYSIS OF THE COSTS AND IMPACT OF INTRODUCING PNEUMOCOCCAL CONJUGATE VACCINE (PCV) IN SOMALIA, GUINEA, SOUTH SUDAN AND CHAD
Leith Greenslade
JustActions, New York, NY, United States

Symposium 137

Strengthening Laboratory Capacity and Optimizing the Utilization of Novel Approaches to Accelerate the Elimination of Onchocerciasis in the WHO African Region (AFRO)

Convention Center - Room 615/616/617 (6th Floor)
Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

The status of Onchocerciases (ONCHO) has drastically changed in the last two decades due to the paradigm shift from control as a public health problem to the elimination of transmission. The shift is facilitated by the progress made with recent advances in diagnostics and program implementation. Most endemic countries have made efforts to accelerate ONCHO elimination by implementing large-scale and more frequent mass drug administration (MDA), rolling out elimination mapping (OEM), undertaking monitoring surveys, or Stop-MDA surveys. Due to the changes in strategy and decreasing prevalence, there is an urgent need to adapt tools, diagnostic protocols, and laboratory capacity to meet the growing demand for epidemiological and entomological field assessments, including pre-Stop MDA surveys and OEM. In particular, ONCHO elimination requires highly specific,

replicable, practical diagnostic tools, and the necessary country laboratory capacity to carry out such analyses. In several countries in Central and West Africa, with support from partners and various stakeholders, significant progress in field implementation and training of laboratory technicians has scaled up elimination efforts remarkably. However, program implementers have faced challenges with the utilization, analysis, interpretation of ONCHO serology, and the lack of concrete guidance pertaining to the utilization of epidemiological field tools. National programs and implementing partners have encountered challenges in the procurement of equipment, reagents, and other specialized commodities. Togo and Cameroon have made tremendous progress in laboratory strengthening, significantly accelerating National programs' ONCHO data analysis and subsequent decision making. Cameroon, which has 117 ONCHO endemic districts, and the additional MDA implementation complexity due to loasis co-endemicity, has successfully taken on the challenge of laboratory infrastructure improvement and capacity building. With the support of stakeholders, the country is even helping to analyze samples from other countries in West Africa. In Togo, more than 13,951 dried blood spots samples have recently been analyzed in-country, and the results will be available for decision-making by the National ONCHO expert committee in 2022. The WHO Expanded Special Project to Eliminate Neglected tropical diseases has done extensive consultations with ONCHO endemic countries to gather information to help advocate for laboratory strengthening. In this symposium, participants will learn about the perspectives in laboratory strengthening from these consultations. Furthermore, the panelists will discuss new diagnostic tools for ONCHO and the implication for field activities and laboratory support in developing countries.

CHAIR

Achille M. Kabore
FHI360, Washington, DC, United States

Upendo Mwinguira
RTI, Washington, DC, United States

8 a.m.
INTRODUCTION

8:10 a.m.
TRAINING NEEDS AND LABORATORY SUPPORT – WHAT IT TAKES TO OPERATIONALIZE OV COUNTRY LABS

Thomas Unnasch
University of South Florida, Tampa, United States

8:25 a.m.
ADVANCES IN ONCHOCERCIASIS DIAGNOSTIC TOOLS

Kim Won
CDC, Atlanta, United States

8:40 a.m.
DETERMINATION OF GAPS AND CHALLENGES IN LABORATORY STRENGTHENING IN THE AFRICAN REGION

Didier Bakajika
WHO ESPEN, Brazzaville, Republic of the Congo

8:55 a.m.
STRENGTHENING LABORATORY CAPACITY FOR ONCHOCERCIASIS IN CAMEROON

Joseph Kagnmo
Centre for Research on Filariasis and other Tropical Diseases, Yaoundé, Cameroon

9:05 a.m.
TOGO'S EXPERIENCE IN FIELD DATA COLLECTION AND LABORATORY STRENGTHENING

Yao Kassankogno
Health Development International, Lomé, Togo

Symposium 138

Innovations in Data-Driven Approaches to Improve Sepsis Care for Children in Low-Resource Settings

Convention Center - Room 618/619/620 (6th Floor)
Thursday, November 3, 8 a.m. - 9:45 a.m. U.S. Pacific Time Zone

The global burden of pediatric mortality in low- and middle-income countries (LMICs) remains high, with 4.9 million deaths of children under 5 in 2016. Most of these deaths were due to sepsis, which is the body's response to an infection (e.g., pneumonia, diarrhea, or malaria) leading to organ damage and ultimately, death and disability. Sepsis is common worldwide, LMICs report substantially higher numbers and case fatality rates as compared to high-resource countries. Recognizing the enormous global human, social, and economic burden of sepsis led to a 2017 World Health Assembly resolution highlighting the need to prioritize prevention, recognition, and early treatment of sepsis. Sepsis disproportionately affects socioeconomically disadvantaged populations in LMICs. Most deaths in health facilities occur within 24 hours of admission. These deaths are commonly a result of delayed presentation and poorly educated staff, leading to delayed, inadequate, or inappropriate treatment. Encouragingly, most deaths from sepsis are preventable by early detection and treatment with simple, highly effective interventions (e.g., antimicrobials, intravenous fluids) available at health facilities in LMICs. There are many opportunities to improve the health-seeking journey of a mother and her critically ill child. This includes earlier recognition of illnesses at home, earlier referrals to prioritized treatment in a facility, and robust, well-planned follow-up after discharge to support recovery. However, poverty and illiteracy combined with limited healthcare resources and training are significant barriers. Notwithstanding, innovation in frugal digital technology and data-driven predictions have enormous potential to improve the care of children in LMICs. Practical and affordable digital technology equipped with clinical algorithms can support health workers with identifying, treating, and following-up high-risk children, improving outcomes within health facilities and at home. This symposium will bring together leading young researchers who are developing innovations in data-driven vulnerability prediction across the journey of the mother and her critically ill child. New host and pathogen biomarkers hold significant promise for enhancing the predictive capability of models using clinical symptoms, signs, and vital signs. Identifying vulnerability

in children allows for targeted, affordable interventions that will help to improve the quality of care. The panel will describe methodological development and validation of prediction models focused on different parts of the mother and child's journey and the challenges and successes of real-world implementation in LMICs.

CHAIR

J Mark Ansermino
The University of British Columbia, Vancovuer, BC, Canada

Niranjan Kissoon
The University of British Columbia, Vancouver, BC, Canada

8 a.m.
INTRODUCTION

8:10 a.m.
RISK STRATIFICATION OF PEDIATRIC FEBRILE ILLNESS TO INFORM EFFECTIVE COMMUNITY MANAGEMENT AND EARLIER REFERRAL TO HIGHER-LEVEL CARE

Arjun Chandna
Cambodia Oxford Medical Research Unit (COMRU) at Angkor Hospital for Children, Siem Reap, Cambodia

8:30 a.m.
SMART TRIAGE, A PREDICTION-BASED FACILITY QUALITY IMPROVEMENT PROGRAM FOR CRITICALLY ILL CHILDREN

Samuel Akech
KEMRI Welcome Trust, Nairobi, Kenya

8:50 a.m.
POINT-OF-CARE BIOMARKERS FOR MORTALITY RISK STRATIFICATION IN PEDIATRIC SEVERE FEBRILE ILLNESS; USING NEXT-GENERATION SEQUENCING FOR ETIOLOGY OF SEVERE FEBRILE ILLNESS

Teresa B. Kortz
University of California, San Francisco, San Francisco, CA, United States

9:10 a.m.
SMART DISCHARGES, POST-DISCHARGE INTERVENTIONS BASED ON THE RISK OF POST-DISCHARGE MORTALITY

Matthew Wiens
The University of British Columbia, Vancouver, BC, Canada

Coffee Break

Convention Center - Atrium Lobby (4th Floor)
Thursday, November 3, 9:45 a.m. - 10:15 a.m. U.S. Pacific Time Zone

Plenary Session 139

Plenary Session V: The Human Rights Foundation of Tropical Medicine: A Tribute to Paul Farmer

Convention Center - Room 6AB (6th Floor)
Thursday, November 3, 10:15 a.m. – 11 a.m. U.S. Pacific Time Zone

When Paul E. Farmer died in February 2022, the world lost one of the true champions of human rights. Paul was one of the pioneers in understanding the social, political and economic underpinnings of human disease. He wrote extensively on the subject and "practiced what he preached" - incorporating principles of equity and human rights into the daily practice of medicine, from caring for patients with HIV and tuberculosis to responding to ebola virus disease. His principles, scholarship and advocacy were widely regarded, changing attitudes and practice across the world, and inspiring countless clinicians, scientists, and policy makers. In this symposium, colleagues who worked with Dr. Farmer will share their experiences, discussing his influence and inspiration, and highlighting the nexus of human rights and tropical medicine - messages that are more important than ever and relevant to all, no matter where you live or what you do for a living.

CHAIR/MODERATOR

Louise Ivers
Harvard University, Cambridge, MA, United States

10:15 a.m.
INTRODUCTION

10:20 a.m.
PANELISTS

David Walton
President's Malaria Initiative, Washington, DC, United States

Ralph Ternier
Zanmi Lasante, Port-au-Prince, Haiti

Agnes Binagwaho
University of Global Health Equity, Butaro, Rwanda

Break

Convention Center – Atrium Lobby (4th Floor)
Thursday, November 3, 11 a.m. – 11:15 a.m. U.S. Pacific Time Zone

Symposium 140

Combining Malaria Interventions: From Trials to Modeling and Optimizing the Impact of Implementation

Convention Center - Room 6AB (6th Floor)
Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

Between the year 2000 and 2016, the world combined resources to tackle malaria, resulting in a drop incidence (20%) and mortality (50%) in Africa. The 2017 WHO World Malaria Report began to document a stall in progress, and that continues, further challenged by the impact of the COVID-19 pandemic on supply

chain and delivery of care, as well as threats from emerging resistance to insecticides, medications, and diagnostics. These findings point to several urgent needs to advance malaria control and elimination: first, the need for innovation in product development and delivery strategies; second, the dependence on robust health systems; and third, optimized, data-based approaches to combining and focusing interventions. The positive experience of the RTS,S pilot implementation program, combined with the potential supply limitations in the near term, also raise the question of how to introduce scarce commodities as they become available, and how to maximize its delivery in a combination strategy. The combination strategy framework that has emerged over the past two decades is at first view simple: a program that uses a diagnostic to identify and treat positive cases, with a focus on at-risk children and pregnant mothers; prevention via vector control, chemoprevention or vaccine; and a decentralized surveillance system that generates usable data to target the parasite and at-risk humans with a feedback loop on progress or risks. Inherent in this approach is the fixed use of LLINs or IRS, and treatment with antimalarials. However, many questions remain, and not all can feasibly be answered with a randomized controlled trial. One seemingly simple example is the question as to whether IRS and LLINs co-delivered would be duplicative, additive or synergistic, with potential cost implications for programs. Another example is the co-delivery of chemoprevention in selected age groups with other interventions, such as vaccine, or vector control targeting residual transmission. Results of specific trials can be extended to other sites and ecosystems through the applications of well parametrized models. This symposium will focus on emerging data from recent combination trials together with modeling available data for evaluation of potential impact and extension into other use scenarios, to generate discussion of the value of this type of implementation research, implications and limitations in malaria programs. Creating a combined strategy adapted to each country can also benefit from modeling as well as defining the key factors that influence the decision to deliver combinations at scale. Ultimately, these decisions would need to be considered in a country specific framework using combination strategies that can be tailored to the context of each country.

CHAIR

Regina Rabinovich
Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain

Abdisalan Noor
The World Health Organization, Geneva, Switzerland

11:15 a.m.
INTRODUCTION

11:25 a.m.
POTENTIAL IMPACT OF CO-DELIVERY OF RTS,S WITHIN MALARIA PROGRAMS

Jaline Gerardin
Northwestern University, Chicago, IL, United States

11:45 a.m.
MATHEMATICAL MODELING TO PREDICT THE EFFECTS OF POSSIBLE COMBINATION APPROACHES FOR VECTOR CONTROL

Thomas S. Churcher
Inperial College London, London, United Kingdom

12:05 p.m.
FEASIBILITY OF TRIALS TO EVALUATE NOVEL VECTOR TOOLS

Samuel Gonahasa
Infectious Diseases Research Collaboration, Kampala, Uganda

12:25 p.m.
COMBINING TRIALS AND MODELING INTO A COUNTRY SPECIFIC FRAMEWORK TO MAXIMIZE IMPACT

Abdisalan Noor
The World Health Organization, Geneva, Switzerland

Scientific Session 141

Clinical Tropical Medicine: Tropical Infections and HIV

Convention Center - Room 6C (6th Floor)
Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

CHAIR

Martin P. Grobusch
Academic Medical Center, Amsterdam, Netherlands

Courtney Jo Pedersen
Brown University, Providence, RI, United States

11:15 a.m. **1824**

LABORATORY PARAMETERS ASSOCIATED WITH MORTALITY IN EBOLA VIRUS DISEASE

Courtney J. Pedersen[1], Razia Laghari[2], Eta N. Mbong[2], Rigo F. Muhayangabo[2], Andrés Colubri[3], Kelsey Butler[3], Monique Gainey[4], Shiromi M. Perera[5], Ian C. Michelow[1], Oliver Tang[1], Adam C. Levine[1], Adam R. Aluisio[1]
[1]The Warren Alpert Medical School of Brown University, Providence, RI, United States, [2]International Medical Corps, Goma, Democratic Republic of the Congo, [3]University of Massachusetts, Chan Medical School, Worcester, MA, United States, [4]Rhode Island Hospital, Providence, RI, United States, [5]International Medical Corps, Washington, DC, United States

11:30 a.m. **1825**

PRIMARY OUTCOME AND SELECT SECONDARY OUTCOMES FROM REPEAT IVERMECTIN MASS DRUG ADMINISTRATIONS FOR MALARIA CONTROL II (RIMDAMAL II): A DOUBLE-BLIND, CLUSTER-RANDOMIZED CONTROL TRIAL FOR INTEGRATED CONTROL OF MALARIA

Brian D. Foy[1], A. Fabrice Some[2], Anthony Some[2], Emmanuel Sougue[2], Teun Bousema[3], Hannah Slater[4], Kacey Richards[5], Martina Wade[5], Tereza Magalhaes[1], Sangeeta Rao[1], Lyndsey Gray[1], Greg Pugh[1], Paula Lado[1], Roch K. Dabire[2], Sunil Parikh[5]
[1]Colorado State University, Fort Collins, CO, United States, [2]Institut de Recherche en Sciences de la Sante, Bobo Dioulasso, Burkina Faso, [3]Radboud University Medical Center, Nijmegen, Netherlands, [4]PATH, Seattle, WA, United States, [5]Yale University, New Haven, CT, United States

11:45 a.m. 1826

UTILITY OF POINT-OF-CARE ECHOCARDIOGRAPHY TO GUIDE FLUID RESUSCITATION IN DENGUE SHOCK PATIENTS

Ho Quang Chanh[1], Huynh Trung Trieu[2], Hung Tran Kim[2], Tu Qui Phan[2], Lam Phung Khanh[1], Bridget Wills[1], Sophie Yacoub[1]
[1]Oxford University Clinical Research Unit, Ho Chi Minh, Viet Nam, [2]Hospital for Tropical Diseases, Ho Chi Minh, Viet Nam

Noon 1827

NEGLECTED TROPICAL DISEASES | PQM+ MEDICINES INFORMATION DASHBOARD

Nanavi Dansou, Timothy Nwogu, Souly Phanouvong
USP/PQM+, Rockville, MD, United States

12:15 p.m. 1828

BASELINE CYTOMEGALOVIRUS VIRAEMIA AT CRYPTOCOCCAL MENINGITIS DIAGNOSIS IS ASSOCIATED WITH LONG-TERM INCREASED INCIDENT TB DISEASE AND MORTALITY - A PROSPECTIVE COHORT OF 497 UGANDAN ADULTS.

Jayne Ellis[1], Ananta S. Bangdiwala[2], Caleb Skipper[2], Laura Nsangi[3], John Matovu[3], Katelyn A. Pastick[4], Kenneth Ssebambulidde[3], Bozena M. Morawski[2], Abdu K. Musubire[3], Joseph N. Jarvis[1], Mark R. Schleiss[2], David R. Boulware[2], David B. Meya[3], Barbara Castelnuovo[3]
[1]London School Hygiene and Tropical Medicine, London, United Kingdom, [2]University of Minnesota, Minnesota, MN, United States, [3]Infectious Diseases Institute, College of Health Sciences, Makerere University, Kampala, Uganda, [4]Massachusetts General Hospital, Boston, Boston, MA, United States

12:30 p.m. 1829

A 3-YEAR ADVERSE DRUG REACTIONS ANALYSIS OF HIV PATIENTS ON DOLUTEGRAVIR-CONTAINING REGIMENS IN ETHIOPIA

Belete Ayalneh[1], Elias Geremew[1], Yalemsew Derib[1], Fikreslassie Alemu[1], Helen Tesfaye[1], Sami Tewfik[1], Edmealem Ejigu[1], Tesfaye Seifu[1], Bekele Ashagire[2], Asnakech Alemu[3], Teshita Shute[3], Habtamu Gashaw[3], Meron Kifle[3]
[1]USAID Global Health Supply Chain Program-Procurement and Supply Management project, Addis Ababa, Ethiopia, [2]USAID Health Office in Ethiopia, Addis Ababa, Ethiopia, [3]Ethiopian Food and Drug Authority, Addis Ababa, Ethiopia

12:45 p.m. 1830

FACTORS IMPEDING THE HIV TREATMENT AMONGST UNDERPRIVILEGED PATIENTS VISITED OUTPATIENT DEPARTMENT IN A UNIVERSITY HOSPITAL IN THAILAND

Rapeephan Maude, Naphitchaya Wiriya
Ramathibodi hospital, Bangkok, Thailand

Symposium 142

A Holistic Approach to the Positioning of Triple Artemisinin-Based Combination Therapies (TACTs) for Malaria in Africa

Convention Center - Room 6E (6th Floor)
Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

Artemisinin-based Combination Therapies (ACTs) have contributed substantially to reduce global malaria morbidity and mortality. However, further gains are threatened by artemisinin and partner drug resistance in Southeast Asia. A major concern is that artemisinin and partner drug resistance may spread, as chloroquine resistance did in the 1960s and 1970s, moving from Southeast Asia to the Indian subcontinent and subsequently to Africa. Recent reports of artemisinin resistance in India and Rwanda are worrisome and call for urgent action to prevent emergence or spread of artemisinin resistance in Africa. New antimalarial drugs may not come to the market within the next 5 years. Triple ACTs (TACTs), combining artemisinin with two currently available partners drugs, could provide one of the last remaining safe and effective treatments for malaria that can be deployed rapidly. For Africa, where ACTs are still effective, TACTs could be used as a strategy to preserve the efficacy of artemisinin and the partner drugs, thereby extending the time that they remain useful and protecting future treatment options. TACTs were tested in a clinical study titled Tracking Resistance to Artemisinin Collaboration II (TRACII), where the second partner drug was selected based on the pharmacokinetic profiles of the drugs and resistance profiles of parasites to these drugs. The TRACII trial, enrolling >1000 patients, mainly adults from Southeast Asia, provided the first clinical proof of concept of TACTs. Dihydroartemisinin-piperaquine with mefloquine and artemether-lumefantrine with amodiaquine, were safe, well tolerated and efficacious even in patients with multi-drug resistant malaria. The results of the TRACII trial led to a project titled Development of Triple Artemisinin Combination Therapies (DeTACT), which takes a holistic approach to provide further evidence needed for immediate deployment of TACTs. Multi-faceted evidence is necessary with regards to deploying TACTs in Africa. This ranges from safety, tolerability and efficacy of TACTs in a pediatric population, forecasting potential future benefits of TACTs, stakeholder perception on acceptability of TACTs and market positioning of TACTs in Africa. The DeTACT clinical study in Africa is a placebo-controlled, randomized, partially blinded study to test the safety, tolerability and efficacy of two TACTs in ~3000 children with uncomplicated falciparum malaria and preliminary results will be discussed. Results of the DeTACT mathematical modeling study with regards to the future benefit of deploying TACT in Africa will be discussed. Results of the DeTACT bioethics and market positioning studies conducted in two African countries to address ethical and practical considerations of deploying TACTs will be discussed.

CHAIR

Arjen M. Dondorp
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Chanaki Amaratunga
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

11:15 a.m.
INTRODUCTION

11:25 a.m.
ARE TACTS SAFE AND WELL-TOLERATED IN PEDIATRIC POPULATIONS IN AFRICA?
Mehul J. Dhorda
Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

11:35 a.m.
THE DETACT CLINICAL TRIAL IN NIGER
Ibrahim M. Ngoumboute
Medecins Sans Frontieres, Maradi, Niger

11:50 a.m.
WILL DEPLOYING TACTS IN AFRICA DELAY OR PREVENT ARTEMISININ RESISTANCE?
Tran Dang Nguyen
Center for Infectious Disease Dynamics, Department of Biology, Pennsylvania State University, University Park, PA, United States

12:10 p.m.
WHAT ARE THE ETHICAL CONSIDERATIONS IN DEPLOYING TACTS IN AFRICA?
Paulina Tindana
University of Ghana, Legon-Accra, Ghana

12:30 p.m.
TO WHAT EXTENT ARE THE ANTIMALARIAL MARKETS IN AFRICA READY FOR A TRANSITION TO TACTS?
Freek de Haan
Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands

Scientific Session 143

LIVE STREAMING

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Kinetoplastid Cellular and Immunoparasitology

Convention Center - Room 602/603/604 (6th Floor)
Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

CHAIR

Leroy Versteeg
Baylor College of Medicine, Houston, TX, United States

Christine Petersen
University of Iowa, Iowa City, IA, United States

11:15 a.m. 1849

EXPLORING THE DEEPEST SECRETS OF THE TRYPANOSOMA BRUCEI NUCLEAR ARCHITECTURE
Claudia Rabuffo, Anna Barcons-Simon, Markus Schmidt, Nicolai Tim Siegel
Ludwig-Maximilian University, Munich, Germany

11:30 a.m. 1850

EXTRAVASCULAR SPACES ARE RESERVOIRS OF ANTIGENIC DIVERSITY IN TRYPANOSOMA BRUCEI
Alexander Beaver[1], Gracyn Y. Buenconsejo[2], Nathan Crilly[1], Jill Hakim[2], Lucy Zhang[2], Bryce Bobb[2], Filipa Rijo-Ferreira[3], Luisa Figueiredo[4], Monica R. Mugnier[2]
[1]Department of Pathology, Johns Hopkins School of Medicine, Baltimore, MD, United States, [2]Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [3]Division of Infectious Diseases and Vaccinology, Berkeley Public Health Molecular and Cell Biology Department, Berkeley, CA, United States, [4]Instituto de Medicina Molecular, Faculdade de Medicina, Universidade de Lisboa, Lisboa, Portugal

11:45 a.m. 1851

ELO PATHWAY IS CRITICAL FOR MAINTENANCE OF BROAD METABOLIC PROCESSES AND EFFICIENT GROWTH IN TRYPANOSOMA CRUZI
Lucas Pagura[1], Peter C. Dumoulin[1], Cameron C. Ellis[2], Igor Etevao[2], Maria T. Mendes[2], Igor C. Almeida[2], Barbara A. Burleigh[1]
[1]Department of Immunology and Infectious Diseases, Harvard T. H. Chan School of Public Health, Boston, MA, United States, [2]Department of Biological Sciences Department, University of Texas at El Paso, El Paso, TX, United States

Noon 1831

IMMUNOPEPTIDOMICS AS A TOOL TO IDENTIFY VACCINE TARGETS AGAINST CHAGAS DISEASE
Leroy Versteeg[1], Rakesh Adhikari[1], William Russell[2], Kathryn M. Jones[1], Maria Elena Bottazzi[1], Edwin Tijhaar[3], Jeroen Pollet[1]
[1]Baylor College of Medicine, Houston, TX, United States, [2]UTMB Health, Galveston, TX, United States, [3]Wageningen University, Wageningen, Netherlands
(ACMCIP Abstract)

12:15 p.m. 1832

EXHAUSTED PD-1$^+$TOX$^+$ CD8$^+$ T CELLS ARISE ONLY IN LONG-TERM EXPERIMENTAL TRYPANOSOMA CRUZI INFECTION
Rosa I. Gálvez[1], Thomas Jacobs[2]
[1]La Jolla Institute for Immunology, La Jolla, CA, United States, [2]Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany
(ACMCIP Abstract)

12:30 p.m. 1833

ACTIVATION OF ERK PATHWAY FOLLOWING LEISHMANIA AMAZONENSIS INFECTION IS NECESSARY FOR INTERNALIZATION AND PATHOGENESIS
Umaru Barrie, Dawn M. Wetzel
University of Texas Southwestern Medical Center, Dallas, TX, United States
(ACMCIP Abstract)

12:45 p.m. 1834

CELLULAR DYNAMICS OF IMMUNE EVASION DURING LEISHMANIA MAJOR INFECTION
Romaniya Zayats
University of Manitoba, Winnipeg, MB, Canada
(ACMCIP Abstract)

Scientific Session 144

Kinetoplastida and Other Opportunistic and Anaerobic Protozoa: Diagnosis and Treatment

Convention Center - Room 605/610 (6th Floor)

Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

CHAIR

Paul Nguewa
Institute of Tropical Health, University of Navarra (ISTUN), Pamplona, Spain

Fernán Agüero
Universidad Nacional de San Martín, San Martin, Argentina

11:15 a.m. 1835

THE CHAGAS ANTIGEN AND EPITOPE ATLAS: DEEP SEROLOGICAL SURVEYS OF HUMAN CHAGAS DISEASE POPULATIONS

Fernán Agüero[1], Alejandro D. Ricci[1], Leonel E. Bracco[1], Janine M. Ramsey[2], Faustino Torrico[3], Jaime Altcheh[4], Norival Kesper Jr[5], Juan C. Villar[6], Jorge D. Marco[7], Melissa S. Nolan[8]
[1]Universidad Nacional de San Martín - CONICET, San Martin, Argentina, [2]Centro Regional de Investigación en Salud Pública, Instituto Nacional de Salud Pública, Tapachula, Mexico, [3]Fundación CEADES, Cochabamba, Plurinational State of Bolivia, [4]Instituto Multidisciplinario de Investigaciones en Patologías Pediátricas (IMIPP), GCBA – CONICET, Ciudad Autonoma de Buenos Aires, Argentina, [5]Instituto de Medicina Tropical, Universidade de Sao Paulo, Sao Paulo, Brazil, [6]Universidad Nacional de Bucamaranga, Bucamaranga, Colombia, [7]Universidad Nacional de Salta, Salta, Argentina, [8]University of South Carolina, Columbia, SC, United States

(ACMCIP Abstract)

11:30 a.m. 1836

POC CUTANEOUS LEISHMANIASES DIAGNOSIS: HANDHELD ULTRA- FAST PCR AND LATERAL FLOW ASSAYS FOR LEISHMANIA PARASITES DETECTION AND IDENTIFICATION

Insaf Bel Hadj Ali, Yusr Saadi, Zeineb Hammami, Oumayma Rhouma, Ahmed Sahbi Chakroun, Ikram Guizani
Molecular Epidemiology & Experimental Pathology, Institut Pasteur de Tunis, Tunis, Tunisia

(ACMCIP Abstract)

11:45 a.m. 1837

A HIGH-CONTENT DRUG SCREENING APPROACH TO IDENTIFY NATURAL ANTI-LEISHMANIAL COMPOUNDS: A PROOF-OF-PRINCIPLE THROUGH NOVEL GLYCOLYSIS AND EPIGENETIC MODULATION INHIBITORS NP234 & NP008

Yash Gupta[1], Jesse Vance[2], Andres Prieto Trujillo[3], Lori Ferrins[4], Ravi Durvasula[1], **Prakasha Kempaiah**[1]
[1]Mayo Clinic, Jacksonville, FL, United States, [2]Mayo Clinic, Rochester, MN, United States, [3]University of North Florida and Mayo Clinic, Jacksonville, FL, United States, [4]Northeastern University, Boston, MA, United States

Noon 1838

DEVELOPMENT OF A LATERAL FLOW IMMUNOASSAY FOR NEUROLOGICAL TOXOPLASMOSIS THROUGH A NOVEL PROTEIN MAPPING TECHNIQUE

Hannah E. Steinberg[1], Amanda Haymond[2], Kathryn Cassels[2], Andrea Diestra[3], Catherine Apaza[3], Marilly Donayre Urquizo[4], Lilia Cabrera[5], Freddy Tinajeros[5], Viviana Pinedo Cancino[4], Lastenia Ruiz[4], Cesar Ramal[6], Paul Russo[2], Lance Liotta[2], Maritza Calderon[3], Natalie Bowman[7], Alessandra Luchini[2], Robert H. Gilman[8]
[1]University of Illinois, Chicago, Chicago, IL, United States, [2]George Mason University, Fairfax, VA, United States, [3]Universidad Peruana Cayetano Heredia, Lima, Peru, [4]Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, [5]AB Prisma, Lima, Peru, [6]Hospital Regional de Loreto, Iquitos, Peru, [7]University of North Carolina, Chapel Hill, NC, United States, [8]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

(ACMCIP Abstract)

12:15 p.m. 1840

VALIDATION OF THE MOBILE SUITCASE LABORATORY AS A TEST FOR CURE OF KALA-AZAR AND POST KALA-AZAR DERMAL LEISHMANIASIS

Madhurima Roy[1], Arianna Ceruti[2], Rea Maja Kobialka[2], Sutopa Roy[1], Deblina Sarkar[1], **Ahmed Abd El Wahed**[2], Mitali Chatterjee[1]
[1]Institute of Post Graduate Medical Education and Research, Kolkata, India, [2]Leipzig University, Leipzig, Germany

12:30 p.m. 1841

OUTCOME OF A 4 YEAR FOLLOW UP IN CHILDREN WITH CHAGAS DISEASE TREATED WITH A NEW FORMULATION OF NIFURTIMOX - THE CHICO SECURE CLINICAL STUDY RESULTS

Jaime Altcheh[1], Victor Serra[2], Teresa Ramirez[3], Jimy Pinto Rocha[4], Ulrike Grossmann[5], Erya Huang[6], Olivia Ding[7], Guillermo Moscatelli[1]
[1]Parasitologia, Hospital de Niños Ricardo Gutierrez, Buenos Aires, Argentina, [2]Centro de Atencion e Investigacion Medica S.A., Yopal, Colombia, [3]Centro de Enfermedad de Chagas y Patologias Regionale, Santiago del Estero, Argentina, [4]Plataforma de Chagas, Tarija, Colombia, [5]Bayer AG, Berlin, Germany, [6]Bayer US LLC, Whippany, NJ, United States, [7]Bayer Healthcare Co. Ltd, Beijing, China

Symposium 145

Accelerating Neglected Tropical Diseases 2030 Targets Achievement Through Paradigm Shifts in Country Ownership

Convention Center - Room 606/607 (6th Floor)
Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

The 2021-2030 WHO NTD Road Map identifies country ownership as a key strategic pillar to achieve the 2030 control and elimination targets. Although challenging to operationalize and measure, increased country ownership is essential to advance the sustainability of NTD programs (NTDP) and health systems and ensure the delivery of comprehensive NTD interventions. This requires moving from traditional vertical NTD programming to an integrated service delivery model focused on multisectoral action and capacity strengthening across health systems functions. To promote country ownership, NTDPs are leading efforts to increase domestic resource mobilization, garner commitment from cross-sector stakeholders, and leverage existing platforms within and outside the health sector. This paradigm shift drives forward tailored interventions aligned with local context, national priorities, and NTDP goals for long-term sustainability. With support from the USAID's Act to End NTDs | West program, technical assistance for sustainability anchors country ownership through multisectoral coordination to mainstream NTDs into current policy, financing, data and supply chain management, primary care, and service delivery structures. Through collaborative engagement and leveraging of decentralized governance, national stakeholders identify integration synergies and opportunities for NTD priorities to be incorporated into existing national health sector planning strategies and reflected in subnational and local budgets or policies. To streamline technical oversight for integrated NTD interventions, NTDPs also lead the operationalization of cross-sector coordination mechanisms designed to support the transition from siloed disease-specific programming and strengthen cross-cutting approaches. Cross-sector coordination mechanisms are pivotal in raising the visibility of NTDPs and provide a platform to advocate for the integration of NTDs into existing service delivery platforms, including minimum packages of care for universal health coverage. Holistic integration of NTD treatment and morbidity management-related services into national health insurance benefits schemes is a cornerstone for sustainable NTD mainstreaming while promoting equity in health service delivery and access. Through an interactive knowledge exchange, this symposium will highlight the consultation process of the USAID NTD sustainability approach in prioritizing country ownership to achieve NTD sustainability milestones. Representatives from endemic countries and technical partners supporting country efforts towards sustainability will exchange views and practical experiences of country-owned interventions that are advancing mainstreaming of NTDs within various levels of the health system.

CHAIR

Justin Tine
FHI360, Acrra, Ghana

Carly Smith
Deloitte, Washington, DC, United States

11:15 a.m.
INTRODUCTION

11:25 a.m.
DISCUSS THE DEVELOPMENT OF THE SUSTAINABILITY PLAN, AN ITERATIVE AND PARTICIPATORY DOCUMENT THAT OUTLINES THE MILESTONES, ACTIVITIES, ROLES, AND RESPONSIBILITIES OF NATIONAL ACTORS NECESSARY TO INCREASE COUNTRY OWNERSHIP AND ACHIEVE SUSTAINABILITY

Arielle Dolegui
World Vision, Washington, DC, United States

11:35 a.m.
APPROACHES AND COUNTRY INITIATIVES IN COTE D'IVOIRE TO INCREASE DOMESTIC RESOURCES AND SUSTAINABLE FINANCING

Miette Aboulaye
Ministry of Health, Abidjan, Côte D'Ivoire

11:45 a.m.
LESSONS LEARNED FROM THE USE OF DHIS-2 FOR ROUTINE MALARIA DATA WERE LEVERAGED TO INFORM THE PROCESS OF MAINSTREAMING NTD DATA INTO HEALTH INFORMATION SYSTEMS IN SENEGAL

Abdoulaye Diaw
Ministry of Health and Social Affairs, Dakar, Senegal

11:55 a.m.
APPROACH AND PROCESS IN MALI FOR THE ESTABLISHMENT OF A MULTISECTORAL PLATFORM AS A COORDINATION MECHANISM AND NATIONAL ADVISORY BODY ON INTEGRATING NTD PROGRAMMING WITHIN OTHER HEALTH PROGRAMS AND NON-HEALTH SECTORS

Massitan Dembele
Ministry of Health, Bamako, Mali

12:05 p.m.
PERSPECTIVE AND EXPERIENCE FROM GHANA IN ESTABLISHING A HIGH-LEVEL STAKEHOLDER CONSULTATION PROCESS ACROSS SECTORS TO INFLUENCE POLICIES AND LEVERAGE OPPORTUNITIES WITHIN THE UNIVERSAL HEALTH COVERAGE PACKAGE, HEALTH INSURANCE, AND LOCAL GOVERNMENT

Adam Taher Hafez
Ministry of Health, Accra, Ghana

Symposium 146

Post-Discharge Malaria Chemoprevention in Children with Severe Anaemia: A New Intervention for a New Target Group

Convention Center - Room 611/612 (6th Floor)
Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

We will present the results of a series of studies on Post-discharge malaria chemoprevention (PDMC). PDMC was recently included in WHO's malaria chemoprevention guidelines as a new malaria chemoprevention strategy in malaria-endemic areas of Africa, targeting vulnerable children recently discharged from the hospital after recovery from severe anaemia. High post-discharge mortality is well known among children with severe acute malnutrition, but not well recognized in children with severe anaemia. There is no specific strategy to support children with severe anaemia during the post-discharge period in malaria-endemic areas. The first presentation summarizes a meta-analysis of the burden of post-discharge mortality, showing that in malaria-endemic areas, the 6-month mortality after discharge is about 3-fold higher among children admitted with severe anaemia than in children admitted for other reasons such as pneumonia, cerebral malaria, diarrhea, etc. The second presentation summarizes a meta-analysis of the double-blind placebo-controlled trials involving 3,663 children age <5 years in the Gambia, Malawi, Kenya and Uganda, showing that 3 months of PDMC is associated with a 77% (95% CI 30-92) reduction in mortality (p=0.01) and a 53% (40-63) reduction in all-cause readmissions (p<0.001). The third presentation will show that monthly PDMC under implementation conditions in malaria-endemic areas is less costly and more effective in terms of quality-adjusted life-years than the standard of care. The fourth presentation will show the results of a modelling study suggesting that repeat episodes within six months of the original episode constitute a quarter of all severe malarial anaemia episodes in high transmission settings. If all hospitalized cases access PDMC post-discharge, it is estimated that 36,000 (range 16,000-82,000) malaria-associated readmissions could be prevented annually in Africa. It will also show which areas in sub-Saharan Africa are particularly suitable for PDMC. A fifth presentation will present the contextual factors for the delivery of PDMC. PDMC is particularly cost-effective when all three courses are provided at discharge to the caretakers to administer at home. A delivery mechanism trial suggested that this results in better adherence than facility-based delivery requiring the caregivers to return to the clinic to collect the PDMC courses. Qualitative research suggests that PDMC is perceived as a highly positive approach by caretakers, community health workers and clinic staff.

CHAIR

Feiko O. ter Kuile
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Kamija Phiri
Kamuzu University of Health Sciences, Blantyre, Malawi (KUHES) (Previously College of Medicine, University of Malawi) and Training and Research Unit of Excellence (TRUE), Blantyre, Malawi

11:15 a.m.
INTRODUCTION

11:25 a.m.
POST-DISCHARGE MORBIDITY AND MORTALITY IN CHILDREN ADMITTED WITH SEVERE ANAEMIA AND/OR OTHER HEALTH-CONDITIONS IN MALARIA-ENDEMIC SETTINGS IN AFRICA: A SYSTEMATIC REVIEW AND META-ANALYSIS
Titus Kwambai
Centers for Disease Control and Prevention-Kenya, Kisumu, Kenya

11:40 a.m.
POST-DISCHARGE MORBIDITY AND MORTALITY IN CHILDREN ADMITTED WITH SEVERE ANAEMIA AND/OR OTHER HEALTH-CONDITIONS IN MALARIA-ENDEMIC SETTINGS IN AFRICA: A SYSTEMATIC REVIEW AND META-ANALYSIS
Feiko O. ter Kuile
Liverpool School of Tropical Medicine, UK and KEMRI, Kenya, Liverpool, United Kingdom

11:55 a.m.
COST-EFFECTIVENESS OF POST-DISCHARGE MALARIA CHEMOPREVENTION AMONG PRESCHOOL CHILDREN WITH SEVERE MALARIAL ANAEMIA IN MALAWI, KENYA, AND UGANDA
Bjarne Robberstad
Section for Ethics and Health Economics, Department of Global Public Health and Primary Care, University of Bergen, Bergen, Norway

12:10 p.m.
THE PROJECTED HEALTH IMPACT OF POST-DISCHARGE MALARIA CHEMOPREVENTION AMONG CHILDREN UNDER THE AGE OF FIVE YEARS WITH SEVERE MALARIAL ANAEMIA IN AFRICA: A MODELLING ANALYSIS
Lucy Okell
MRC Centre for Global Infectious Disease Analysis, Department of Infectious Disease Epidemiology, London, United Kingdom

12:25 p.m.
CONTEXTUAL FACTORS AND DELIVERY MECHANISM OF POST-DISCHARGE MALARIA CHEMOPREVENTION FOR CHILDREN WITH SEVERE MALARIAL ANAEMIA IN AFRICA
Kamija Phiri
Kamuzu University of Health Sciences, Blantyre, Malawi (KUHES) (Previously College of Medicine, University of Malawi) and Training and Research Unit of Excellence (TRUE), Blanture, Malawi

Symposium 147

Informing Intervention Strategies to Accelerate the Interruption of Transmission of Soil-Transmitted Helminthiasis and Schistosomiasis: Learnings from Ethiopia, Kenya, Rwanda and Zimbabwe

Convention Center - Room 615/616/617 (6th Floor)
Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

The WHO NTD 2030 Roadmap targets for soil-transmitted helminths (STH) and schistosomiasis (SCH) have shifted from a focus on morbidity control to elimination as a public health problem, and the potential interruption of transmission. As such, there is the need for refined, reduced-cost impact assessment methodologies to assess program impact and facilitate decision making. This symposium showcases novel reassessment

mapping methods undertaken in four countries, to support the development of refined treatment and intervention strategies and accelerate progress towards achieving interruption of transmission of STH and SCH. In Rwanda, a precision-based national remapping was performed in 2020 to identify schistosomiasis endemic communities. This presentation will detail a SCH risk analysis performed to inform site selection, the results of the community mapping and geospatial process used to extend remapping results. Further, it will discuss the development of a revised treatment strategy following the release of the updated WHO guideline on the control and elimination of schistosomiasis. Following five years of treatment for STH and SCH in Ethiopia, it was essential to reassess infection prevalence. Additionally, there was a desire for remapping results to support the delivery of treatment at the sub-district level. An innovative geospatial sampling approach was used to develop the national mapping strategy. Results and revised treatment strategies for Phase I will be presented, and provide context on progress towards reaching the Ethiopia NTD Masterplan (2021-2025) and 2030 NTD Roadmap targets. In order to guide a ward-level (below subcounty) treatment approach in four counties in Western Kenya, a 'granular mapping' survey was implemented. This applied the current WHO mapping guideline at a higher resolution, providing fine-scale insight into the location of at-risk populations. STH and SCH prevalence results will be presented, in addition to changes in treatment allocation based on ward-level prevalence data and how targeted implementation of activities support efforts to interrupt disease transmission. Zimbabwe's 2021 reassessment survey utilized a model-based geostatistical approach to provide a detailed epidemiological picture of prevalence in school-age children (SAC) following multiple rounds of preventive chemotherapy and facilitate ward (sub-district) classification as >=10% or <10% prevalence. Additional sampling occurred in preSAC and adults, to determine community infection and ascertain whether SAC are a suitable proxy for estimating community burden. Survey results and application to develop the revised treatment strategy will be discussed, with a focus on the use of community data to inform expansion of treatment.

CHAIR

Alison K. Ower
The END Fund, New York, NY, United States

Suzy Campbell
The END Fund, New York, NY, United States

11:15 a.m.
INTRODUCTION

11:25 a.m.
PRECISION MAPPING AND GEOSPATIAL ANALYSIS TO SUPPORT REVISED TREATMENT IN RWANDA

Jean Bosco Mbonigaba
Rwanda Biomedical Centre, Kigali, Rwanda

11:45 a.m.
LEVERAGING GEOSPATIAL MODELLING TECHNIQUES TO FACILITATE SUB-DISTRICT TREATMENT DECISIONS IN ETHIOPIA

Fikre Seife Gebretsadik
Federal Ministry of Health, Addis Ababa, Ethiopia

12:05 p.m.
PRECISION MAPPING TO SUPPORT THE KENYAN BREAKING TRANSMISSION STRATEGY IN WESTERN KENYA

Maurice Odiere
Kenya Medical Research Institute, Kisumu, Kenya

12:25 p.m.
A MODEL-BASED GEOSTATISTICAL APPROACH FOR REASSESSMENT MAPPING TO FACILITATE SUB-DISTRICT TREATMENT DECISIONS IN ZIMBABWE

Nicholas Midzi
National Institute of Health Research, Harare, Zimbabwe

12:45 p.m.
EFFECTIVE SAMPLING METHODS: A DISCUSSION ON CURRENT NEEDS AND IMPLICATIONS IN THE CONTEXT OF INTERRUPTION OF TRANSMISSION GOALS

Fiona Fleming
SCI Foundation, London, United Kingdom

Symposium 148

Using Conflict Resolution Approaches to Enable Health Services and Vice-Versa

Convention Center - Room 618/619/620 (6th Floor)
Thursday, November 3, 11:15 a.m. - 1 p.m. U.S. Pacific Time Zone

In certain armed conflicts, public health challenges, ranging from pandemics, mental health, neglected tropical diseases (NTDs), to lack of access to primary care, may be shared concerns of civilians and armed actors. That is, these challenges may constitute over-arching, common needs that armed actors, communities, or civilians are unable to address. If such conditions exist, the inclusion of public health activities in conflict resolution efforts can incentivize peace, since peace dividends go hand-in-hand with peace making. In situations of armed conflict, public health stakeholders face numerous challenges, perhaps most importantly a lack of regular access to concerned populations to provide care. Without the expertise to engage in mediation or conflict mitigation efforts, public health stakeholders may be unable to surmount these challenges. Combining mediation with public health activities holds the potential to improve access for care and build confidence between conflict actors as they collaborate to address shared health concerns. This symposium will discuss a "peace through health" approach that explores integrating public health activities with mediation and conflict mitigation efforts to support peace and improve public health outcomes for violence-affected populations. Multiple initiatives will be used as case examples about what has worked in the past, is currently working and opportunities in the future. South Sudan: In 1995, US President Jimmy Carter brokered the Guinea Worm Ceasefire between the

government of Sudan and the Sudan People's Liberation Army that not only halted violence for six months, but also allowed for a massive expansion of Guinea worm prevention efforts. Mali: The Peace through Health initiative aims to create conditions for peace by facilitating dialogue and restoring trust between government and local populations in the Mopti region. So far, the project has improved access for all health stakeholders; included vulnerable minorities in decision-making and implementation of the project; enhanced the population's trust of government; and improved trust between all groups. Somalia: Neglecting to address the psychosocial impact of decades of conflict can ultimately undermine peace, health and development. WHO and partners have conducted a study on the links between mental health, conflict and peace building in order to provide evidence about the interplay between mental health and psychosocial support and drivers of conflict in Somalia and help to inform new evidence-based approaches and interventions that can be implemented. Sudan: Ongoing conflict within Sudan and along its borders have created immense challenges in implementing NTD programs, yet the Ministry of Health has been able to adapt where possible.

CHAIR

Kashef Ijaz
The Carter Center, Atlanta, GA, United States

Barbara Smith
The Carter Center, Atlanta, GA, United States

11:15 a.m.
INTRODUCTION

11:25 a.m.
ADVANCING HEALTH THROUGH PEACEBUILDING EFFORTS
Stacia George
The Carter Center, Atlanta, GA, United States

11:35 a.m.
SUDAN GUINEA WORM CEASEFIRE
Samuel Makoy
South Sudan Ministry of Health, Juba, South Sudan

11:45 a.m.
PEACE THROUGH HEALTH IN CENTRAL MALI
Boukary Sangaré
The Carter Center, Bamako, Mali

Noon
UNDERSTANDING THE DRIVERS AND LINKS BETWEEN MENTAL HEALTH, CONFLICT AND PEACEBUILDING: THE CASE OF SOMALIA
Mamunur R. Malik
World Health Organization, Mogadishu, Somalia

12:10 p.m.
EXPLORING THE IMPACT OF INSECURITY ON NEGLECTED TROPICAL DISEASE PROGRAMMING IN SUDAN
Angelia M. Sanders
The Carter Center, Atlanta, GA, United States

Thursday, November 3, 1 p.m. U.S. Pacific Time Zone

ASTMH 2022 Annual Meeting Adjourns
See you next year at the Hyatt Regency Chicago in Chicago, Illinois!

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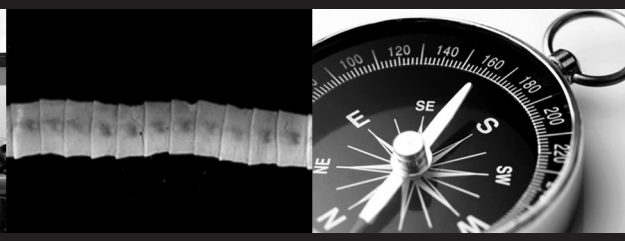

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