

65th Annual Meeting

November 13–17, 2016

Atlanta Marriott Marquis

Atlanta, Georgia USA



astmh.org | ajtmh.org | [#TropMed16](https://twitter.com/TropMed16)



Supplement to

The American Journal of Tropical Medicine and Hygiene

Dear Colleague:

Welcome to the Annual Meeting, your platform to access all that is new, evolving, challenging, successful and exciting in tropical medicine and global health. In addition to our yearly assemblage of stimulating research, clinical advances and special lectures, we have a number of special guests and exciting events planned.

We look forward to hearing from our keynote speaker, Dr. Carissa Etienne, Director of PAHO, a global leader whose determined focus on global partnerships and solutions has been invaluable during the Zika virus outbreak. Other highlights include the invited lectures from Drs. Albert Icksang Ko, Zulfiqar Bhutta and Suneth Buddhika Agampodi.

Also included this year are some prime extras and first-time features:

- The Refugee Journey to Wellbeing, an interactive exhibit presented by CDC and partners, highlighting the public health aspects of the refugee experience
- Free Wi-Fi and Meeting App
- Recordings of selected sessions included in your registration fee

Lastly, we are grateful to our supporters and exhibitors. Please be sure to attend the Opening Reception, where you can enjoy complimentary food and drink while visiting and speaking with these partners who make an important contribution to both our meeting and the field.

Please check the Meeting App and/or on-line planner for all that this rich meeting offers.

Welcome to ASTMH and Atlanta,

Chers Collègues:

Bienvenue à notre Réunion Annuelle, votre plate-forme pour accéder à l'innovation et aux grandes évolutions en cours dans notre discipline. Il s'agit d'une opportunité unique, riche et enthousiasmante dans les domaines de la médecine tropicale et de la santé globale. En plus de notre assemblée générale annuelle sur les derniers résultats obtenus en termes de recherche, des avancées cliniques et des conférences spéciales, nous avons invités plusieurs personnalités marquantes pour notre discipline.

Nous avons le plaisir d'accueillir notre principale conférencière, la Dr Carissa Etienne, Directeur de l'OPS, un leader mondial dont le travail acharné sur le développement des partenariats et des solutions globales a été déterminant lors de l'épidémie à virus Zika. Autres points forts inclus les conférences par nos conférenciers distingués, Drs. Albert Icksang Ko, Zulfiqar Bhutta et Suneth Buddhika Agampodi.

Cette année, nous inaugurons également des nouvelles sessions et de nouveaux outils interactifs :

- Le Voyage des Réfugiés vers le Bien-être, une exposition interactive présentée par le CDC et ses partenaires, organisée autour des aspects santé publiques tiré des expériences des réfugiés
- Une connexion Wi-Fi gratuite et un App spécifique dédiée à cette réunion annuelle
- La mise à disposition des enregistrements des sessions sélectionnées a été incluse dans vos frais d'inscription

Enfin, nous sommes reconnaissants aux partenaires et aux exposants de cette édition qui ont permis ces innovations/améliorations. Nous vous recommandons chaudement d'assister à la réception d'ouverture, où vous pourrez profiter de la gratuité de la restauration tout en pouvant visiter les stands et discuter avec nos partenaires qui ont contribué de manière significative tant à notre réunion que sur le terrain.

Sans plus attendre, allez consulter l'App de la Réunion et/ou le planning en ligne des différentes sessions et événements de cette édition de notre Réunion Annuelle afin que vous puissiez en profiter pleinement.

Soyez bienvenus à ASTMH et à Atlanta,

Estimados Colegas:

Bienvenido a la Reunión Anual, su plataforma para acceder a todo lo que es nuevo, en evolución, desafiante, exitoso y emocionante en medicina tropical y salud global. Además de nuestra asamblea anual de reportes estimulantes sobre investigaciones, avances clínicos y conferencias especiales, tenemos planeada una serie de invitados importantes y eventos emocionantes.

Esperamos con interés escuchar de nuestro orador principal, la Dra. Carissa Etienne, Directora de la OPS, un líder global cuyo enfoque enérgico sobre las asociaciones y soluciones globales ha sido inestimablemente valioso durante el brote del virus Zika. Otros puntos destacados incluyen las conferencias de los Doctores invitados Albert Icksang Ko, Zulfiqar Bhutta y Suneth Buddhika Agampodi.

Este año, también se incluyen algunos adicionales de primera calidad y temas nuevos:

- El Viaje de los Refugiados al Bienestar, una exposición interactiva presentada por el CDC y colaboradores, destacando los aspectos de salud pública en la experiencia de los refugiados
- Wi-Fi gratuito y la App de la Reunión
- Grabaciones de algunas sesiones seleccionadas incluidas en la cuota de inscripción

Por último, estamos agradecidos a nuestros patrocinadores y expositores. Por favor asegúrese de asistir a la Recepción de Apertura, donde podrá disfrutar de comida y bebidas de cortesía mientras visita y conversa con estos socios que contribuyen de una manera importante tanto para nuestra reunión como para el campo.

Por favor, compruebe el App de la Reunión y/o planificador en línea para encontrar todo lo que esta rica reunión ofrece.

Bienvenido a ASTMH y Atlanta,



Daniel Bausch
**Daniel G. Bausch, MD,
MPH&TM, FASTMH**
Scientific Program Chair



Stephen Higgs
**Stephen Higgs, PhD,
FRES, FASTMH**
President



Karen A. Goraliski
Karen A. Goraliski
Executive Director
ASTMH

JOHNNY ISAKSON
GEORGIA



United States Senate

WASHINGTON, D.C.

November 13, 2016

American Society of Tropical
Medicine and Hygiene
One Parkview Plaza
Suite 800
Oakbrook Terrace, Illinois 60181

Greetings:

It is a pleasure to welcome everyone to Atlanta, Georgia, for the American Society of Tropical Medicine and Hygiene annual conference. This conference provides opportunities for members to foster relationships while promoting the advancement of science and the improvement of global health. I appreciate the work each of you do to help educate millions of people around the world to live a life free from dangerous diseases. Thank you for your commitment to research and development.

I send my best wishes for a productive conference, and I hope you enjoy your time in this great state.

Sincerely

A handwritten signature in black ink, appearing to read 'Johnny Isakson', with a long horizontal flourish extending to the right.

Johnny Isakson

Jl/sav

United States Senate

November 13, 2016

American Society of Tropical Medicine and Hygiene:

It is my pleasure to extend a warm welcome to all of you for attending and participating in the 65th ASTMH annual conference. I was pleased to learn that your annual conference will be held in the city of Atlanta. I hope you will take some time over the coming days to explore the city and experience all of the great offerings Atlanta provides to visitors.

Over the next several days, the discussions and scientific sessions that take place will significantly contribute to the research being conducted at your respective institutions to combat and prevent the spread of infectious diseases. Recent events surrounding infectious disease outbreaks demonstrate the need to have access to diagnostics and treatments in order to take effective action. I hope that the professional development among colleagues will help to further develop current and future efforts that will protect Americans both domestically and abroad.

Thank you all for your dedication to research on global health. As a member of the Senate Foreign Relations Committee, and Chairman of the Subcommittee on State Department and USAID Management, International Operations, and Bilateral International Development, I understand and value the importance of your work.

Sincerely,



David Perdue
U.S. Senator

ASTMH Thanks the Following Sponsors

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David Lyerly

William A. Petri, Sr.

Petri Family

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About the American Society of Tropical Medicine and Hygiene

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.



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.

Advantages of ASTMH Membership

- Active specialty subgroups in the areas of clinical tropical medicine, medical entomology, virology, global health and molecular, cellular and immunoparasitology
- The Clinical Consultants Directory — a listing of physicians who offer clinical consultative service in tropical medicine, medical parasitology and travelers' health
- 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*

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

Membership Dues

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

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

Regular Member: **\$230**

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

Fellow of ASTMH (FASTMH): **\$50** voluntary contribution

Lifetime: **\$4,600**

Professional Development Opportunities

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

Affiliate Members

Patron



Thank You

Peter Melby, *Professor; Director, UTMB Center for Tropical Diseases, Department of Internal Medicine, Division of Infectious Diseases, University of Texas Medical Branch*

Contributor



Thank You

Wilbur Milhous, *Professor; Associate Dean of Research; Director, Center for Global Health Infectious Disease Research, University of South Florida*

Welcome ASTMH 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. Visiting researchers or others on short-term assignments do not qualify.

ASTMH Members are Located in 100 Countries Across Six Continents



Afghanistan	Egypt	Jamaica	Panama	Thailand
Angola	El Salvador	Japan	Papua New Guinea	Togo
Argentina	Equatorial Guinea	Kenya	Peru	Trinidad and Tobago
Australia	Ethiopia	Republic of Korea	Philippines	Tunisia
Austria	Federated States of Micronesia	Lao People's Democratic Republic	Poland	Uganda
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Belgium	French Guiana	Madagascar	Rwanda	United Kingdom
Benin	Gabon	Malawi	Saint Kitts and Nevis	United States of America
Bolivia	Gambia	Malaysia	Saudi Arabia	Venezuela
Botswana	Germany	Mali	Senegal	Vietnam
Brazil	Ghana	Mexico	Singapore	Zambia
Burkina Faso	Greece	Mozambique	Slovenia	
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The Democratic Republic of the Congo	Israel	Norway	Sweden	
Denmark	Italy	Oman	Switzerland	
Ecuador	Ivory Coast	Pakistan	Taiwan R.O.C.	
			Tanzania	

ASTMH 65th Annual Meeting

Sunday, November 13, 2016

	Marriott International Hall	Marriott Imperial A	Marriott Imperial B	Marriott Marquis Ballroom	Marriott M103/M104/M105	Marriott Atrium B	Marriott Room A601	Marriott Room A602	Marriott Room A701	Marriott Room A703
7 – 7:30 a.m.										
7:30 – 8 a.m.										
8 – 8:30 a.m.										
8:30 – 9 a.m.										
9 – 9:30 a.m.										
9:30 – 10 a.m.										
10 – 10:30 a.m.										
10:30 – 11 a.m.										
11 – 11:30 a.m.										
11:30 a.m. – Noon										
Noon – 12:30 p.m.		Clinical Pre-Meeting Course P. 72	Clinical Pre-Meeting Course P. 72		Parasitology Pre-Meeting Course P. 73		Global Health Pre-Meeting Course P. 74	Arbovirology and Medical Entomology Pre-Meeting Course P. 73	Young Investigator Award Session B P. 77	Young Investigator Award Session C P. 78
12:30 – 1 p.m.										
1 – 1:30 p.m.										
1:30 – 2 p.m.										
2 – 2:30 p.m.										
2:30 – 3 p.m.										
3 – 3:30 p.m.						First-Time Attendee Orientation				
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.	Opening Reception and Exhibits Open									
8 – 8:30 p.m.										
8:30 – 9:30 p.m.										

ASTMH 65th Annual Meeting

Sunday, November 13, 2016

	Marriott Room A704	Marriott Room A706	Marriott Room A707	Marriott Room A708	Marriott Room M201	Marriott Room M302	Marriott Room M303	Marriott Room M304	Marriott Rooms L401/L402	Marriott Skyline Level					
7 – 7:30 a.m.															
7:30 – 8 a.m.															
8 – 8:30 a.m.															
8:30 – 9 a.m.															
9 – 9:30 a.m.															
9:30 – 10 a.m.															
10 – 10:30 a.m.	Young Investigator Award Session D P. 79		Young Investigator Award Session E P. 81	Young Investigator Award Session A P. 76											
10:30 – 11 a.m.															
11 – 11:30 a.m.															
11:30 a.m. – Noon											ACAV SIE				
Noon – 12:30 p.m.															
12:30 – 1 p.m.											ACAV SIRACA				
1 – 1:30 p.m.															
1:30 – 2 p.m.					Elsevier-ASTMH Clinical Research Award P. 83										
2 – 2:30 p.m.															
2:30 – 3 p.m.												ACAV SALS			
3 – 3:30 p.m.															
3:30 – 4 p.m.															
4 – 4:30 p.m.					Clinical Group Council Meeting	ACMCIP Council Meeting	ACGH Council Meeting	ACME Council Meeting	ACAV Council Meeting	Student Reception					
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 p.m.															

Online Meeting Program

Search the Annual Meeting program online by abstract keyword, title, subject, author and/or presentation time at astmh.org/annual-meeting. The full text of all abstracts, including Late-Breaker Abstracts, can be found in the Online Program Planner.

Meeting App

Download the meeting app for easy access to all ASTMH program information. Use the app to view the meeting schedule, session and presenter information, full abstracts, exhibitors, maps and Twitter feed.

Program Changes

Times and/or locations of activities or sessions are subject to change. A Program Update is included in your registration packet.

Online Abstract Book

The Annual Meeting Abstract Book is accessible at astmh.org/annual-meeting. View the full text of the abstracts presented.

ASTMH 65th Annual Meeting

Monday, November 14, 2016

	Marriott International Hall	Hilton Grand Ballroom and Grand Salon	Marriott Imperial A	Marriott Imperial B	Marriott Marquis A	Marriott Marquis B	Marriott Marquis C	Marriott Marquis D	
7 – 7:30 a.m.									
7:30 – 8 a.m.									
8 – 9:45 a.m.			2 Scientific Session Filariasis: Epidemiology and Control I P. 86	3 Scientific Session Bacteriology: Cholera P. 87		4 Symposium CRISP/Cas Gene Drive Technologies for Vector Control P. 88	5 Scientific Session Malaria: Epidemiology - Intervention Studies and Evaluation P. 89	6 Scientific Session Malaria: Drug Development - Preclinical to Clinical Trials P. 90	
	Exhibits Open 9:30 - 10:30								
9:45 – 10:15 a.m.	Coffee Break	Poster Session A Setup							
10:15 a.m. – Noon		Poster Session A Viewing	14 Scientific Session Filariasis: Epidemiology and Control II P. 95	15 Scientific Session Dengue: Vaccines/ Epidemiology P. 96	16 Scientific Session Malaria: Chemotherapy and Looking for Drug P. 97	17 Symposium Characterizing Spatiotemporal Patterns of Insecticide Resistance P. 98	18 Symposium Refugee Health: Clinical Case Studies P. 98	19 Symposium Disease Elimination and Eradication: Programmatic Best Practices P. 99	
Noon – 12:15 p.m.	Exhibit Hall Open and Light Lunch	26 Poster Session A Presentations and Light Lunch P. 104							
12:15 – 12:30 p.m.									
12:30 – 12:45 p.m.									
12:45 – 1:30 p.m.					27 Late Breakers in Clinical Tropical Medicine and Global Health P. 145	28 Accelerate to Equal: Engaging Women in Vector Control P. 145			
1:30 – 1:45 p.m.									
1:45 – 3:30 p.m.		Exhibits Open 3:15 -4:15	30 Scientific Session Filariasis: Molecular Biology, Immunology and Diagnostics P. 146	31 Scientific Session West Nile and Other Flaviviruses P. 147	32 Symposium Seasonal Malaria Chemoprevention at Scale P. 148	33 Symposium Generating Evidence for Malaria Elimination in the Greater Mekong P. 148	34 Scientific Session Malaria Vaccines: Diverse Approaches P. 149	35 Symposium Malaria Metabolomics, Data Integration Challenges and Progress P. 150	
	3:30 – 4 p.m.		Coffee Break						
4 – 5:45 p.m.		Poster Session A Viewing	41 Symposium Terrorism, Conflict, Epidemics and Acts of God P. 154	42 Scientific Session Chikungunya and Other Alphaviruses P. 154	43 Scientific Session One Health: Interface of Human Health/ Animal Diseases P. 155	44 Symposium Next-Generation Sequencing Technologies to Advance Global Research P. 156	45 Symposium Bridging the Gap towards Defining the Burden of Typhoid P. 156	46 Scientific Session Malaria: Epidemiology II - Descriptive and Risk Factor Studies P. 157	
	5:45 – 6:15 p.m.								
6:15 – 7 p.m.						52 Plenary II Craig Lecture P. 162			
7 – 7:15 p.m.									
7:15 – 8 p.m.		Poster Session A Dismantle	Sponsored Symposium Management of Infectious Diseases to Address Chronic Illness P. 41 and P. 162					Sponsored Symposium Malaria: Faster and More Accurate Diagnosis for Eradication P. 41 and P. 162	
8 – 8:30 p.m.									
8:30 – 9 p.m.									
9 – 9:30 p.m.									

ASTMH 65th Annual Meeting

Monday, November 14, 2016

	Marriott Room M103/M104/M105	Marriott Atrium A	Marriott Atrium B	Marriott Room A601	Marriott Room A602	Marriott Room A703/A704	Marriott Room A706/A707
7 – 7:30 a.m.							
7:30 – 8 a.m.							
8 – 9:45 a.m.	7 Symposium Influence of Behavior and Culture within WASH Interventions P. 90	8 Symposium CadMIA and CHAMPS: Pathways toward Defining Preventable Causes of Death P. 91	9 Symposium Zika Virus: Public Health Response and Disease Manifestations P. 92	10 Scientific Session Cestodes: Cysticercosis and Echinococcosis P. 92	11 Scientific Session Malaria: Biology and Pathogenesis P. 93	12 Scientific Session Mosquitoes: Operational Control P. 94	13 Symposium Hot Topics in Leishmaniasis P. 94
9:45 – 10:15 a.m.							
10:15 a.m. – Noon	20 Scientific Session Malaria: Vector Control Interventions in Africa - LLINs and Beyond P. 100	21 Scientific Session Clinical Tropical Medicine I P. 100		22 Symposium Developing Responsible Data Sharing for Tropical Medicine P. 101	23 Scientific Session ACMCIP: Helminths: Cellular, Molecular and Immunoparasitology P. 102	24 Symposium Immune Memory Responses in Malaria P. 103	25 Symposium Tailored Surveillance Strategies for High-Risk Populations in Malaria P. 103
Noon – 12:15 p.m.							
12:15 – 12:30 p.m.							
12:30 – 12:45 p.m.							
12:45 – 1:30 p.m.	29 Meet the Professors A P. 146						
1:30 – 1:45 p.m.							
1:45 – 3:30 p.m.	36 Symposium Emerging Infectious Diseases and Social Media P. 150	37 Symposium The President's Malaria Initiative, 2006-2015 P. 151	38 Symposium Ebola: Sequelae, Asymptomatic Infection and Transmission Dynamics P. 152			39 Scientific Session Schistosomiasis: Epidemiology and Control P. 152	40 Scientific Session Mosquitoes: Vector Biology - Epidemiology I P. 153
3:30 – 4 p.m.							
4 – 5:45 p.m.	47 Scientific Session Kinetoplastida: Epidemiology and Diagnosis P. 158	48 Inaugural Alan J. Magill Malaria Eradication Symposium P. 159	49 Symposium Global Health Education, Service and Research Opportunities for Trainees P. 159		50 Symposium Mapping the Denominator P. 160		51 Scientific Session Mosquitoes: Vector Biology - Epidemiology II P. 161
5:45 – 6:15 p.m.							
6:15 – 7 p.m.							
7 – 7:15 p.m.							
7:15 – 8 p.m.							
8 – 8:30 p.m.							
8:30 – 9 p.m.							
9 – 9:30 p.m.							

INCLUDED WITH YOUR REGISTRATION FEE

Audio Recordings of Select Sessions

Registrants will receive free access to audio recordings and slides of select sessions.

Please note that the entire content of the Annual Meeting will not be available.

ASTMH 65th Annual Meeting

Tuesday, November 15, 2016

	Marriott International Hall	Hilton Grand Ballroom and Grand Salon	Marriott Imperial A	Marriott Imperial B	Marriott Marquis A	Marriott Marquis B	Marriott Marquis C	Marriott Marquis D
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 9:45 a.m.			53 ACMCIP Symposium: Parasitology and the CRISPR-Cas Revolution P. 163	54 Symposium Advanced Diagnostics in Filarial Infections P. 164	55 Symposium Malaria Elimination Strategies: Lessons from the Field P. 164	56 Scientific Session Global Health: Ebola P. 165	57 Scientific Session Water, Sanitation, Hygiene and Environmental Health I P. 165	58 Symposium Molecular Basis of Severe Malarial Anemia P. 166
	Exhibits Open 9:30 - 10:30							
9:45 – 10:15 a.m.	Coffee Break	Poster Session B Setup						
10:15 a.m. – Noon		Poster Session B Viewing	66 Symposium Strategies to Control Hepatitis E Virus P. 171	67 Symposium Perspectives on Burden of Diarrhea and Strategies for Quantification P. 172	68 Symposium Moving toward a PfSPZ Malaria Vaccine P. 173	69 Symposium Ivermectin to Reduce Malaria: Clinical Trials, Models, Pathways P. 173	70 Symposium Building Clinical Research Capacity: Lessons from Africa and South Asia P. 174	71 Symposium Key Elements for Improving Management of Pneumonia in Children P. 174
Noon – 12:15 p.m.	Exhibit Hall Open and Light Lunch	79 Poster Session B Presentations and Light Lunch P. 180						
12:15 – 12:30 p.m.			80 Late Breakers in Basic Science and Molecular Biology P. 222					
12:30 – 12:45 p.m.								
12:45 – 1:30 p.m.								
1:30 – 1:45 p.m.								
1:45 – 3:30 p.m.		Poster Session B Viewing	82 Symposium Congenital Vector- Borne Diseases and Early P. 222	83 Scientific Session Bacteriology: Diarrhea - Determinants and Prevention P. 223	84 Symposium Human Babesiosis: A Neglected Tick- Borne Parasitic Disease P. 224	85 Symposium Remote Sensing and Models from NASA in Predicting/ Mitigating Outbreaks P. 224	86 Symposium ACAV I: Business Meeting, Awards and Research Presentations P. 225	87 Symposium Call to Increase Coverage of Preventive Treatment in Pregnancy P. 225
	Exhibits Open 3:15 - 4:15							
3:30 – 4 p.m.	Coffee Break							
4 – 5:45 p.m.		Poster Session B Viewing	93 Symposium Co-Administration of Drugs for NTDs: Efficacy, Efficiency and Safety P. 230	94 Symposium Malaria Economics Research Priorities P. 231	95 Symposium Current Challenges for Treating Malaria in the Greater Mekong Subregion P. 231	96 Symposium Mass Drug and Vector Control Approaches for Malaria Elimination P. 232	97 Symposium ACAV II: Emergence, Evolution, and Control of Zika Virus P. 233	98 Symposium Pneumonia Etiology Research for Child Health Study (PERCH) P. 233
5:45 – 6:15 p.m.								
6:15 – 7 p.m.							104 Plenary III Commemorative Fund Lecture P. 237	
7 – 7:15 p.m.		Poster Session B Dismantle						
7:15 – 8 p.m.								
8 – 8:30 p.m.						105 Symposium The Refugee Journey to Wellbeing P. 237		
8:30 – 9 p.m.								
9 – 9:30 p.m.								

ASTMH 65th Annual Meeting

Tuesday, November 15, 2016

	Marriott Room M103/M104/M105	Marriott Atrium A	Marriott Atrium B	Marriott Room A601	Marriott Room A602	Marriott Room A703/A704	Marriott Room A706/A707	Marriott Room M301/M302/M303/M304
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 9:45 a.m.	59 Scientific Session Bacteriology: Trachoma P. 167	60 Symposium ACGH I: Building a Successful Career - Leaders Share Their Experiences P. 168	61 Scientific Session Clinical Tropical Medicine II P. 168	62 Symposium ACME I: Business Meeting, Awards and Reception P. 169	63 Symposium Schistosomiasis Control with a View toward Elimination P. 169	64 Symposium Where Will the Next Malaria Medicines Come From? P. 170	65 Symposium If You Neglect It, It Will Grow: Addressing Fungal Infections in HIV P. 171	
9:45 – 10:15 a.m.								
10:15 – Noon	72 Scientific Session ACMCIP: Malaria and Protozoal Diseases: Biology and Pathogenesis P. 175	73 Symposium ACGH II: Building a Successful Career - Interactive Session with Experts P. 176	74 Symposium Recent Advances in Development of New Treatments for Chronic Chagas Disease P. 177	75 Symposium ACME II: Applied Medical Entomology: Bridging Field and Laboratory Studies P. 177	76 Symposium Tools of Genomics and Evolution to Study and Control Malaria P. 178	77 Scientific Session Soil-Transmitted Helminths: Epidemiology and Control P. 178	78 Symposium Update on Research and Control of Viral Diseases in Cuba P. 179	
Noon – 12:15 p.m.								
12:15 – 12:30 p.m.								
12:30 – 12:45 p.m.								
12:45 – 1:30 p.m.								
1:30 – 1:45 p.m.								
1:45 – 3:30 p.m.		88 Scientific Session Integrated Control Measures for Neglected Tropical Diseases P. 226	89 Symposium Clinical Group (ACCTMTH) I P. 227		90 Symposium The Washington, DC Primer: Advocating for R&D Funding P. 228	91 Scientific Session Malaria: Elimination Strategies and New Tools P. 228	92 New Approaches to Examining Antigenic Variation in <i>Plasmodium</i> P. 229	
3:30 – 4 p.m.								
4 – 5:45 p.m.	99 Scientific Session Schistosomiasis: Immunology, Pathology and Diagnostics P. 234	100 Symposium Quantitative Approaches to Support Achievement of Elimination Targets P. 235	101 Symposium Clinical Group (ACCTMTH) II P. 235				102 Symposium Approaches, Advances, Needs for Elimination of African Trypanosomiasis P. 236	
5:45 – 6:15 p.m.								103 Speed-Networking with the Experts P. 236
6:15 – 7 p.m.								
7 – 7:15 p.m.								
7:15 – 8 p.m.								
8 – 8:30 p.m.								
8:30 – 9 p.m.								
9 – 9:30 p.m.								

ASTMH Arts and Culture Special Event

“Humanitarian Response”: A One-Act Play about Ebola

Tuesday, November 15, 7 p.m. - 10 p.m.

*Georgia State University (Atlanta), Troy Moore Library, English Department
25 Park Place N.E., Room 2343 (23rd floor)*

The Ebola epidemic is devastating West Africa, and American medical volunteers respond to this humanitarian crisis. But what happens when Ebola strikes one of their own compatriots? Based on a true incident, this short play explores the struggle between individuals and the group confronted with the lethal virus.

This professional performance will be followed by a Q&A panel and a social mixer. This free satellite event is only a short walking distance from the main conference, but seating is limited to 40 people.

- 7 p.m. “Humanitarian Response”: A One-Act Play by Leo Liu, presented by Working Title Playwrights
- 8 p.m. Panel with Ebola response workers
- 9 p.m. Reception with light refreshments



ASTMH 65th Annual Meeting

Wednesday, November 16, 2016

	Marriott International Hall	Hilton Grand Ballroom and Grand Salon	Marriott Imperial A	Marriott Imperial B	Marriott Marquis A	Marriott Marquis B	Marriott Marquis C	Marriott Marquis D	
7 – 7:30 a.m.									
7:30 – 8 a.m.									
8 – 9:45 a.m.			106 Symposium Community Providers for NTD Control: “Building Blocks” for Program Success P. 238	107 Scientific Session Dengue: Pathogenesis/ Immunology P. 239	108 Scientific Session Protozoa P. 240	109 Scientific Session ACMCIP: Malaria and Protozoans: Molecular Biology P. 241	110 Scientific Session Pneumonia, Respiratory Infections and Tuberculosis I P. 241	111 Scientific Session Malaria: Diagnostics P. 242	
	Exhibits Open 9:30 - 10:30								
9:45 – 10:15 a.m.	Coffee Break	Poster Session C Setup							
10:15 a.m. – Noon		Poster Session C Viewing	118 Symposium Implications of Insecticide Resistance on Malaria Vector Control P. 247	119 Symposium Yellow Fever P. 248	120 Symposium Brain-Eating Amoebae P. 248	121 Scientific Session Bacteriology: Febrile illnesses - Leptospirosis and Others P. 249	122 Scientific Session Ectoparasite- Borne Disease P. 250	123 Scientific Session ACMCIP: Kinetoplastida – Molecular, Cellular and Immunobiology P. 250	
	Noon – 12:15 p.m.								
12:15 – 12:30 p.m.	Exhibit Hall Open and Light Lunch (lunch through 1:45 p.m.)	131 Poster Session C Presentations and Light Lunch P. 256	132 Late Breakers in Malaria P. 296						
12:30 – 12:45 p.m.									
12:45 – 1:30 p.m.									
1:30 – 1:45 p.m.									
1:45 – 3:30 p.m.			134 Symposium Global Antibiotic Resistance Partnership and ResistanceMap P. 297	135 Symposium MalERA: Refreshing the Malaria Eradication Research Agenda P. 297	136 Scientific Session Global Health: mHealth, Vaccines and Strategies P. 298	137 Symposium Rebuilding Health Systems for Ebola Survivors P. 299	138 Symposium Confronting the Burden of Shigellosis through Vaccine Development P. 299	139 Symposium Unleashing the Potential: <i>Plasmodium</i> Diversity Network Africa P. 299	
3:30 – 4 p.m.									
4 – 5:45 p.m.		Poster Session B Viewing	147 Scientific Session Global Health: Febrile Illness and Malaria P. 304	148 Symposium Novel Phenotypic and Genotypic Markers of Piperazine Resistance in Cambodia P. 305		149 Symposium Prospects for Development of Vaccines against ETEC P. 306	150 Towards Better Surveillance: Platforms for Elimination P. 306	151 Symposium Shift in Biting Behavior: Outdoor Host Seeking Behavior of Vectors P. 307	
	5:45 – 6:15 p.m.								
6:15 – 7 p.m.						158 Plenary IV President’s Address Annual Business Meeting P. 311			
7 – 7:15 p.m.									
7:15 – 8 p.m.		Poster Session C Dismantle							
8 – 8:30 p.m.									
8:30 – 9 p.m.									
9 – 9:30 p.m.									

ASTMH 65th Annual Meeting

Wednesday, November 16, 2016

	Marriott Room M103/M104/M105	Marriott Atrium A	Marriott Atrium B	Marriott Room A601	Marriott Room A602	Marriott Room A703/A704	Marriott Room A706/A707
7 – 7:30 a.m.							
7:30 – 8 a.m.							
8 – 9:45 a.m.	112 Scientific Session Kinetoplastida: Diagnosis, Treatment and Vaccine Development P. 243	113 Scientific Session Malaria: Chemotherapy for Control and Elimination P. 244	114 Symposium Febrile Illness - Epidemiology, Diagnostics, Management P. 245	115 Symposium Understanding, Detecting, Preventing Fertilization of <i>Plasmodia</i> P. 245		116 Scientific Session Arthropods: Other Arthropods P. 246	117 Scientific Session Malaria Control Interventions: Operational Innovations and Challenges P. 246
9:45 – 10:15 a.m.							
10:15 a.m. – Noon	124 Symposium Evaluating Readiness and Quality of Essential Surgical Services P. 251	125 Scientific Session Virology: Ebola P. 252	126 Symposium State of the Art in Human Infection Models for Tropical Diseases P. 253	127 Symposium Elimination of Schistosomiasis japonica from China P. 253	128 Scientific Session Malaria: Immunology P. 254	129 Scientific Session Malaria: Modeling P. 254	130 Scientific Session Mosquitoes: Biochemistry and Molecular Biology P. 255
Noon – 12:15 p.m.							
12:15 – 12:30 p.m.							
12:30 – 12:45 p.m.							
12:45 – 1:30 p.m.		133 Meet the Professors C P. 297					
1:30 – 1:45 p.m.							
1:45 – 3:30 p.m.	140 Scientific Session Schistosomiasis and Other Trematodes: Transmission and Treatment P. 300	141 Scientific Session Zika P. 301	142 Symposium Access to Chagas Treatment: Lessons from Latin America and USA P. 302	143 Symposium Integrated Community Case Management (iCCM) and Continuum of Care P. 302	144 Scientific Session Mosquitoes: Molecular Genetics and Genomics P. 303	145 Symposium Novel Biomarkers and Predictors of Cerebral Malaria Severity P. 303	146 Symposium Malaria Pre-Elimination: Ensuring Correct Care of Reproductive Age Women P. 304
3:30 – 4 p.m.							
4 – 5:45 p.m.		152 Symposium Careers in Refugee Health: Case-Based Perspectives and Descriptions P. 307	153 Symposium An Integrated Approach to Tropical Dermatology P. 308	154 Symposium The WASH Benefits Study: Cluster- Randomized Trials P. 308	155 Symposium Fifteen Years of Nipah Virus in Bangladesh P. 309	156 Scientific Session Malaria: Parasite, Vector and Host Genomics P. 309	157 Symposium Poor Quality Medicines-The Third Man Threat P. 310
5:45 – 6:15 p.m.							
6:15 – 7 p.m.	<p>Online Meeting Program Search the Annual Meeting program online by abstract keyword, title, subject, author and/or presentation time at astmh.org/annual-meeting. The full text of all abstracts, including Late-Breaker Abstracts, can be found in the Online Program Planner.</p>						
7 – 7:15 p.m.	<p>Meeting App Download the meeting app for easy access to all ASTMH program information. Use the app to view the meeting schedule, session and presenter information, full abstracts, exhibitors, maps and Twitter feed.</p>						
7:15 – 8 p.m.	<p>Program Changes Times and/or locations of activities or sessions are subject to change. A Program Update is included in your registration packet.</p>						
8 – 8:30 p.m.	<p>Online Abstract Book The Annual Meeting Abstract Book is accessible at astmh.org/annual-meeting. View the full text of the abstracts presented.</p>						
8:30 – 9 p.m.							
9 – 9:30 p.m.							



ASTMH 65th Annual Meeting

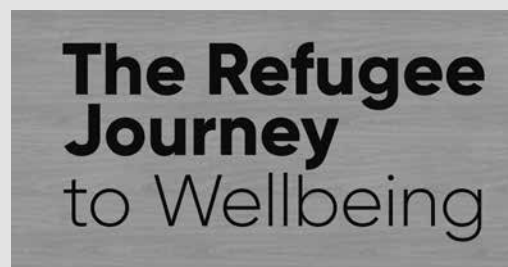
Thursday, November 17, 2016

	Marriott Atrium A	Marriott Atrium B	Marriott Room A601	Marriott Room A602	Marriott Room A703/A704	Marriott Room A706/A707
7 – 7:30 a.m.						
7:30 – 8 a.m.						
8 – 9:45 a.m.		165 Symposium Clinical Update - What's New in Literature? P. 316	166 ACMCIP: Helminths: Immunology P. 316	167 Symposium Ending Preventable Maternal and Child Deaths Due to Tuberculosis P. 317	168 Scientific Session ACMCIP: Malaria: Biology and Pathogenesis P. 317	169 Scientific Session Malaria Control Interventions: Assessment of Quality and Effectiveness P. 318
9:45 – 10:15 a.m.						
10:15 a.m. – Noon	177 Symposium Advancing Global Health Security: Lessons from West Africa Ebola P. 323	178 Scientific Session Filariasis: Clinical P. 324	179 Symposium Gene Drives on the Horizon P. 325	180 Scientific Session Global Health: Maternal and Child Health P. 325	181 Symposium Enhanced Surveillance, Response, Elimination through Diagnostics P. 326	182 Scientific Session HIV and Tropical Co-Infections P. 327

Special Interactive Experience: The Refugee Journey to Wellbeing

Marriott — Atrium Foyer (Atrium Level)

At the end of 2015, there were an estimated 65.3 million people displaced around the world, largely because of extended conflicts in the Middle East, Northern and sub-Saharan Africa, and Asia. The American Society of Tropical Medicine and Hygiene and the U.S. Centers for Disease Control and Prevention (CDC), with participation from a number of domestic and international partners, are hosting this unique interactive experience on refugee health. Through video, photos, live testimonials, hands-on activities and replicated scenes from the field, The Refugee Journey to Wellbeing highlights the clinical and public health aspects of the refugee experience from displacement to resettlement.



For a description of each session, consult the page number corresponding to the session title.

Meeting Room Directory

Atlanta Marriott Marquis

International Level

International Hall (Exhibit Hall)
International A (Speaker Ready Room)

Marquis Level

Walkway to Hilton
Imperial A
Imperial B
Marquis A
Marquis B
Marquis C
Marquis D
Marquis Foyer (Registration, Internet Nook)
Room M101
Room M102 (Press Room)
Room M103/M104/M105
Room M106
Room M107
Room M108
Room M109
Room M201
Room M202
Room M301
Room M302
Room M303
Room M304

Lobby Level

Room L401
Room L402
Room L403
Room L404
Room L405
Room L406
Room L501
Room L502
Room L503
Room L504
Room L505
Room L506
Room L507
Room L508

Atrium Level

Atrium A
Atrium B
Atrium C
Atrium Foyer (Special Interactive Experience: The Refugee Journey to Wellbeing)
Atrium Loft (The TropStop – Student/Trainee Lounge)
Room A601
Room A602
Room A701
Room A702
Room A703
Room A704
Room A705
Room A706
Room A707
Room A708

10th Floor

Skyline

Hilton Atlanta

Second Floor

Walkway to Marriott
Grand Ballroom (Poster Hall)
Grand Salon (Poster Hall)
Room 201
Room 202
Room 203
Room 204
Room 205
Room 206
Room 207
Room 208
Room 209
Room 210
Room 211
Room 212
Room 213
Room 214

Fourth Floor

Room 401
Room 402
Room 403
Room 404
Room 405
Room 406
Room 407
Room 408
Room 409
Room 410

29th Floor

Point of View Lounge

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

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

Executive Committee

*Indicates voting member

President*

Stephen Higgs
Kansas State University, United States

President-Elect*

Patricia F. Walker
University of Minnesota and HealthPartners Travel and Tropical Medicine Center, United States

Immediate Past President*

Christopher V. Plowe
University of Maryland, United States

Secretary-Treasurer

David R. Hill
Quinnipiac University, United States

Chair, Scientific Program Committee

Daniel G. Bausch
World Health Organization, Switzerland

Editor-in-Chief, *American Journal of Tropical Medicine and Hygiene*

Philip Rosenthal
University of California San Francisco, United States

Executive Director

Karen A. Goraleski

Councilors

Nicole Achee* (2015-2019)
University of Notre Dame, United States

Serap Aksoy* (2013-2017)
Yale School of Public Health, United States

Rick Fairhurst* (2015-2016)
National Institute of Allergy and Infectious Diseases, United States

David Fidock* (2015-2019)
Columbia University Medical Center, United States

Eva Harris* (2012-2016)
University of California Berkeley, United States

Laura Kramer* (2014-2018)
New York State Department of Health, Wadsworth Center, United States

Ann Powers* (2014-2018)
Centers for Disease Control and Prevention, United States

Laurence Slutsker* (2013-2017)
PATH, United States

Subgroup Leadership

American Committee of Medical Entomology (ACME)
Chair: Lyric Bartholomay, University of Wisconsin Madison, United States

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)
President: Julian Rayner, Wellcome Trust Sanger Institute, United Kingdom

American Committee on Arthropod-Borne Viruses (ACAV)
Chair: Kathryn A. Hanley, New Mexico State University, United States

American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH – Clinical Group)
President: Duane Hospenthal, University of Texas Health Science Center at San Antonio, United States

ASTMH Committee on Global Health (ACGH)
President: Juliette Morgan, Centers for Disease Control and Prevention, Tbilisi, Georgia

Fellows of ASTMH (FASTMH)

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

2016 Fellows will be announced and recognized at the Awards Program on Sunday, November 13.

2015 Fellows

- J. Kevin Baird, *Eijkman-Oxford Clinical Research Unit, Indonesia*
Frank Bia, *Yale University School of Medicine, United States*
Hector Gorbea, *University of Puerto Rico School of Medicine, United States*
Daniel Gordon, *DMGordon Consulting, LLC, United States*
Christopher King, *Case Western Reserve University, United States*
Beth Kirkpatrick, *University of Vermont, United States*
William Klein, *78th Medical Group, Air Force, United States*
Nirbhay Kumar, *Tulane University School of Public Health and Tropical Medicine, United States*
Sanjai Kumar, *Food and Drug Administration, United States*
Jean Lang, *Sanofi Pasteur, France*
David Morens, *National Institutes of Health, United States*
Amy Morrison, *University of California Davis, United States*
Nicanor Obaldia, *Tropical Medicine Research/Gorgas Memorial Institute of Health Studies, Panama*
Sheral Patel, *Food and Drug Administration, United States*
Mark Polhemus, *SUNY Upstate Medical University, United States*
John Sanders, *Wake Forest University, United States*
Lynn Soong, *University of Texas Medical Branch, United States*
J. Brice Weinberg, *Duke University Duke University and Veterans Administration Medical Center, United States*

ASTMH Organizational Chart

ASTMH Staff

Karen A. Goraleski, *Executive Director*

Howard Burkat, *Controller*

Tonya Cabrera, *Assistant Conference Administrator*

Madhuri Carson, *Manager, Partnership Opportunities*

Greg Cashman, *Director of Financial Planning and Analysis*

Judy DeAcetis, *Administrator*

Doug Dusik, *Senior Communications Executive*

Buffy Finn, *Member Services Administrator*

Brenda Howe, *Conference Administrator*

Alison Jaeb, *AJTMH Editorial Assistant*

Lyn Maddox, *Director of Meetings*

Brian McGowan, *Graphic Designer*

Lauren Rich, *Coordinator, Partnership Opportunities*

Kismet Saglam, *Director of Education Services*

Rhonda Schultz, *Coordinator, Awards and Fellowships*

Cathi Siegel, *AJTMH Managing Editor*

Chris Viglione, *Meeting Manager*

Additional Annual Meeting Onsite Support

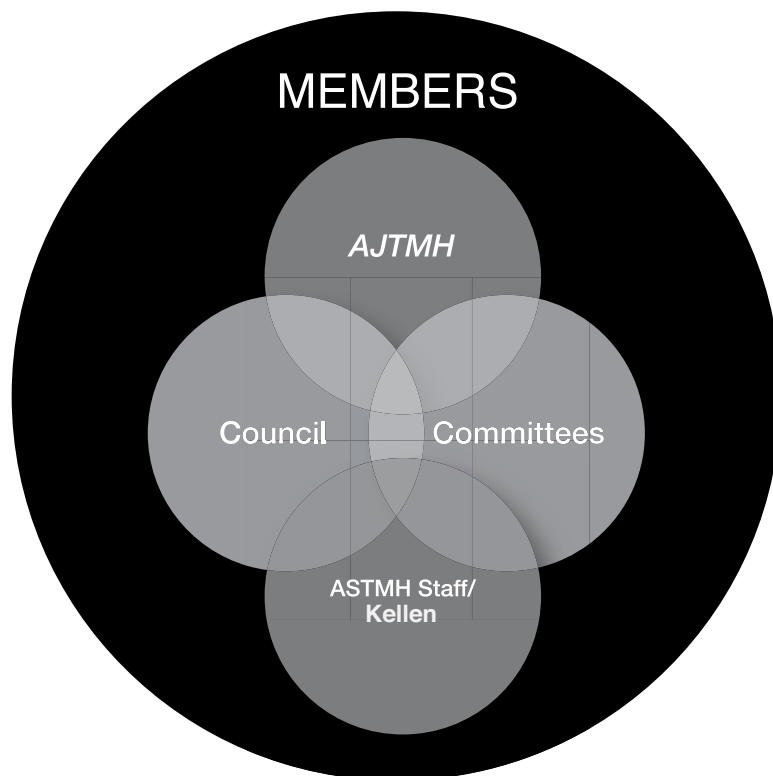
Heather Currier, *Assistant Meeting Manager*

Jill Hronek, *Assistant Meeting Manager*

Matthew Davis, *Burness*

Bridget DeSimone, *Burness*

Preeti Singh, *Burness*



NEW THIS YEAR!

**Meeting App &
FREE Wi-Fi at the
Marriott**



ASTMH Subgroups and Committees

Subgroups

American Committee of Medical Entomology (ACME)

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

Chair and Councilor: Lyric Bartholomay
Gonzalo Vazquez, *Chair-Elect and Councilor*; Nicole Achee, *Past Chair and Councilor*; Rebekah Kading, *Secretary-Treasurer and Councilor*; Philip Armstrong, *Councilor*; Kate Aultman, *Councilor*; Dan Kline, *Councilor*; Kristin Michel, *Councilor*; Alvaro Molina-Cruz, *Councilor*; Michael Reddy, *Councilor*; Jason Richardson, *Councilor*; Michel Slotman, *Councilor*; Maria Diuk Wasser, *Councilor*; Lyric Bartholomay, *Hoogstraal Medal Coordinator*; Ellen Dotson, *Student Award Coordinator*

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)

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

President: Julian Rayner
Christine Petersen, *President-Elect*; Manoj Duraisingh, *Past President*; Niraj Tolia, *Secretary-Treasurer*; Amy Bei, *Councilor for Trainees*; Rick Fairhurst, *Councilor*; Andres Lescano, *International Councilor*; Timothy Yoshino, *Councilor for Communications*

American Committee on Arthropod-Borne Viruses (ACAV)

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

Chair and Councilor: Kathryn Hanley
Nikos Vasilakis, *Chair-Elect and Councilor*; Christopher Mores, *Past Chair and Councilor*; Lark Coffey, *Secretary*; Scott Weaver, *Treasurer*; Donald Burke, *Archivist/Historian*; Brad Blitvich, *Councilor*; Aaron Brault, *Councilor*; Laura Kramer, *Councilor*; Desiree LaBeaud, *Councilor*; Rebecca Rico-Hesse, *Councilor*

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

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

President: Duane Hospenthal
John Sanders, *President-Elect*; Susan McLellan, *Past President*; Latha Rajan, *Secretary-Treasurer*; Miguel Cabada, *Councilor*; Walter (Ted) Kuhn, *Councilor*; Frederique Jacquerioz, *Councilor*

ASTMH Committee on Global Health (ACGH)

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

President: Juliette Morgan
Christina Polyak, *President-Elect*; Johanna Daily, *Past President*; Leslie Enane, *Secretary-Treasurer*; Koya Allen, *Councilor*; Jessica Fairley, *Councilor*; Teshome Gebre, *Councilor*; Daouda Ndiaye, *Councilor*

Administration

Audit/Finance

Chair: David R. Hill
Patricia F. Walker; Stephen Higgs; Christopher V. Plowe; Karen A. Goralesski

Clinical Standards and Treatment Guidelines

Chair: Ed Ryan
Naomi Aronson; Josh Berman; Philip Coyne; Johanna Daily; David Freedman; Robert Gasser; Hector Gorbea; David R. Hill; Eric Houpt; Chandy John; Kevin Kain; James Maguire; Jean Nachega; William Stauffer; Joseph Vinetz; Mary Wilson

Editorial Board, American Journal of Tropical Medicine and Hygiene

Jonathan Berman; Brett Forshey; Hector Garcia; Eric Halsey; Patrick Lammie; Philip LoVerde; Steven Meshnick; Thomas Nutman; Rebeca Rico-Hesse; Terrie Taylor; Robert Tesh; David Walker; A. Clinton White

Editorial Staff: Philip Rosenthal (Editor-in-Chief); Joseph Vinetz (Associate Editor); Cathi Siegel (Managing Editor); Alison Jaeb (Editorial Assistant); Daniel Tisch (Biostatistical Editor)
Section Editors: J. Kevin Baird; Bradley Blitvich; Aaron Brault; J. Stephen Dumler; Duane Hospenthal; James Kazura; Miriam Laufer; Yukari Manabe; Regina Rabinovich; John Sanders; Tom Scott; Maxine Whittaker; Mary Wilson

Nominations

Chair: James Kazura
Rick Fairhurst; Hector Gorbea; Anthony James; Tom Kanyok; Kent Kester; Andres Lescano; Victoria McGovern; Christopher V. Plowe; Rebecca Rico-Hesse; Ken Stuart; Sarah Volkman

One World, One Health Representative

Tom Monath

ASTMH Subgroups and Committees (cont.)

Annual Meeting

Commemorative Fund Lectureship

Chair: Stephen Higgs

Fred L. Soper Lecture and Charles F. Craig Lecture

Chair: Robert Tesh
Donald Burke; David Freedman; Peter Hotez; William Petri

Scientific Program

Chair: Daniel G. Bausch
Assistant Chair: Stephanie Yanow
See full committee roster on page 25.

Travel Awards

Chair: Nirbhay Kumar
James Burns; John Donelson; Erin Eckert; Brian Foy; Nisha Garg; Kent Kester; Sanjai Kumar; Desiree LaBeaud; Kim Lindblade; Kevin Macaluso; James Maguire; Indu Malhotra; Dan Milner; Julie Moore; Ann Moormann; Hira Nakhasi; Christina Polyak; Richard Reithinger; John Sanders; Clive Shiff; Mary Stevenson; Diane Wallace Taylor; Jefferson Vaughan; Venkatachalam Udhayakumar; Eileen Villasante; Joseph Vinetz; Sarah Volkman; Wei-Kung Wang; Yimin Wu

Young Investigator Award

Chair: Daniel Tisch
Subash Babu; Christopher Barker; Jeffrey Bailey; Vitaliano Cama; Peter Crompton; Stephen Davies; Brian Foy; Brian Grimberg; Nicole Gottdenker; Albert Ko; Matthew Laurens; Edward Mitre; Ann Moormann; David Narum; Miranda Oakley; Roshanak Semnani; Anne Stewart; Edward Walker

Awards and Professional Recognition

Medals

Chair: David Walker
Stephanie James; Christopher V. Plowe

Communications Award

Co-Chairs: Peter Hotez, Karen A. Goraleski
Caroline Ash; Adam Cole; Brian Foy; Heather Jameson; Kristy Murray; Katherine Taylor

CTropMed® Exam

CTropMed® Examination

Chair: Susan McLellan
Vernon Ansdell; David Boulware; Lin Chen; Robert DeFraités; David Freedman; Davidson Hamer; Patrick Hickey; Jeffrey

Jones; Patricia Joyce; Gregory Juckett; Amy Klion; Walter (Ted) Kuhn; Gregory Martin; Obinna Nnedu; Matthew Rollosso; Reinaldo Rosas; Carlo Rossi; Bonnie Smoak

CTropMed® Exam Credentialing Committee

Co-Chairs: Larry Laughlin, Susan McLellan
David Freedman; David R. Hill; Jay Keystone; Christopher King; Herbert Tanowitz

CTropMed® Exam Executive Committee

Chair: Susan McLellan
Stephen Higgs; David R. Hill; Duane Hospenthal; Larry Laughlin; Latha Rajan

Diploma Course Certification Committee

Chair: Susan McLellan
David Freedman; Richard Guerrant; Rocio Hurtado; James Kazura; Donald Krogstad; Larry Laughlin; Anne McCarthy; Alan Spira

Courses

Courses Committee

Co-Chairs: Christina Coyle, Michael Libman
Daniel G. Bausch; Philip Coyne; Rick Fairhurst; David R. Hill; Eric Houpt; Christopher King; Jonathan Ripp

Update Course in Clinical Tropical Medicine and Travelers' Health

Co-Chairs: Christina Coyle, Michael Libman

Education/Fellowships/Grant Awards

Alan J. Magill Fellowship

Chair: Kent Kester
Janiine Babcock; Mark Fukuda; Karen A. Goraleski; Andres Lescano; Bruno Moonen; Christopher V. Plowe; Rick Stekete; Mahamadou Ali Thera; Sarah K. Volkman

Education

Chair: Peter Zimmerman
Nora Besansky; Noah Craft; Hector Gorbea; Laura Harrington; Joshua Hartzell; Patrick Hickey; Sandy Hoar; Risa Hoffman; Kenton Kramer; Kevin Macaluso; Victoria McGovern; Claire Panosian; Ann Powers; Jonathan Ripp; Sarah Volkman; Sarah Ziegler

Benjamin H. Kean Travel Fellowship in Tropical Medicine

Chair: Chandy John
James Cummings; Linnie Golightly; Michael Hawkes; Colette Kean; Desiree LaBeaud; Myaing Myaing Nyunt; Mark Polhemus; Mark Travassos

ASTMH Subgroups and Committees (cont.)

Burroughs Wellcome Fund-ASTMH Fellowship

Co-Chairs: Terrie Taylor, Joseph Tucker
Ravi Durvasula; Molly Hughes; Victoria McGovern; Dan Milner;
Joseph Vinetz; Mary Wilson

Centennial Travel Award

Chair: Joseph Vinetz
Michael Cappello; David Fidock; D.J. Perkins; Sarah Volkman

Robert E. Shope International Fellowship

Chair: Ann Powers
Charles Calisher; Tom Scott; Richard Shope; Tom Yuill;
Ex-Officio: Kathryn Hanley

Membership

Membership

Chair: David R. Hill
Daniel G. Bausch; Joel Breman; Sarah Schaffer DeRoo;
Tim Endy; Rick Fairhurst; Karen A. Goraleski; Martin Grobusch;
Davidson Hamer; Selma Jeronimo; Kent Kester; Beth
Kirkpatrick; Kevin Macaluso; Wilbur Milhous; John Waitumbi;
Scott Weaver; Pete Zimmerman

Honorary International Fellow of ASTMH (FASTMH)

Chair: Dyann Wirth
John Askov; Myron Levine

FASTMH (Fellow of ASTMH)

Chair: David R. Hill
Josh Berman; Stephen Higgs; Laura Kramer; Rick Steketee;
Mary Wilson

Ad Hoc

Blue Ribbon Task Force and Working Groups

Co-Chairs: James Kazura, Bill Stauffer

Diploma Accreditation Working Group

Chair: Patrick Hickey
David Boulware; Christina Greenaway; Jonathan Juliano;
Walter (Ted) Kuhn; David Meya; Latha Rajan

Update Course Working Group

Chair: Lin Chen
David Boulware; Christina Coyle; Anne Fox; Anne Frosch;
Michael Libman; Bobbi Pritt; Andrea Summer; Patricia Walker

CTropMed® Working Group

Chair: Desiree LaBeaud
David Boulware; Philip Coyne; Eileen Farnon; Stefan
Hagmann; Shamim Islam; Charles King; Susan McLellan;
Bobbi Pritt; James Kazura

Awards Task Force

Chair: Patricia F. Walker
Myriam Arevalo-Herrera; Kate Aultman; Karen A. Goraleski;
Stephen Higgs; David R. Hill; Christopher V. Plowe;
Watcharapong Piyaphanee; Mahamadou Thera; Sarah Volkman

Scientific Program Committee

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

Chair: Daniel G. Bausch,
World Health Organization



*Assistant Scientific Program
Chair:* Stephanie Yanow,
University of Alberta

Bacterial Illness and Diarrhea

Chair: Ed Ryan, *Massachusetts General Hospital*
Richelle Charles, *Massachusetts General Hospital*
Robert Hall, *National Institutes of Health*
Daniel Leung, *University of Utah*
Megan Reller, *Duke University*
Mark Simons, *Naval Medical Research Unit #6*
Duncan Steele, *Bill & Melinda Gates Foundation*

Clinical Tropical Medicine

Chair: Elizabeth Barnett, *Boston University*
Josh Berman, *Fast Track Drugs*
Bradley Connor, *Weill Cornell Medical College*
Janine Danko, *Walter Reed Military Medical Center*
John Gawoski, *Lahey Clinic*
Brett Hendel-Paterson, *University of Minnesota*
Mark Kortepeter, *Uniformed Services University of the
Health Sciences*
Jason Maguire, *Pfizer*
Joseph Vinetz, *University of California San Diego*

Ectoparasite-Borne Diseases

Chair: J. Stephen Dumler, *Uniformed Services University of
the Health Sciences*
Robert Smith, *Maine Medical Center*
Sam Telford, *Tufts University*
Jefferson Vaughan, *University of North Dakota*

Entomology

Chair: Michel Slotman, *Texas A&M University*
Kate Aultman
Greg Lanzaro, *University of California Davis*
Tom Scott, *University of California Davis*
Igor Sharakhov, *Virginia Tech*
Jiannong Xu, *New Mexico State University*

ASTMH Subgroups and Committees (cont.)

Filariasis

Chair: LeAnne Fox, *Centers for Disease Control and Prevention*

Subash Babu, *NIH-NIRT-ICER*

Peter Fischer, *Washington University*

Shelly Michalski, *University of Wisconsin Oshkosh*

Roshanak Semnani, *National Institute of Allergy and Infectious Diseases*

Daniel Tisch, *Case Western Reserve University*

Global Health

Chair: Richard Reithinger, *RTI International*

Erin Eckert, *United States Agency for International Development*

Philip Gould, *World Health Organization*

Davidson Hamer, *Boston University*

Mary Hayden, *National Center for Atmospheric Research*

Louise Ivers, *Partners In Health/Brigham and Women's Hospital*

Kayla Laserson, *Centers for Disease Control and Prevention*

Mark Paris, *Mark Paris, MD*

Jose Stoute, *Pennsylvania State University*

Katherine Taylor, *University of Notre Dame*

Theresa Townley, *Creighton University*

HIV and Tropical Co-Infections

Chair: Christina Polyak, *Military HIV Research Program*

David Boulware, *University of Minnesota*

Daniel Leung, *University of Utah*

Jean Nachega, *Johns Hopkins University*

Integrated Control of Neglected Tropical Diseases

Chair: Charles King, *Case Western Reserve University*

Darin Evans, *United States Agency for International Development*

Eric Ottesen, *Task Force for Global Health*

Intestinal and Tissue Helminths, Cestodes

Chair: Siddhartha Mahanty, *National Institute of Allergy and Infectious Diseases*

David Abraham, *Thomas Jefferson University*

Enrico Brunetti, *University of Pavia*

Jose Serpa-Alvarez, *Baylor College of Medicine*

Francesca Tamarozzi, *University of Pavia*

Kinetoplastida

Chair: Lynn Soong, *University of Texas Medical Branch*

Caryn Bern, *University of California San Francisco*

Edgar Carvalho, *Federal University of Bahia*

Nisha Garg, *University of Texas Medical Branch*

Shaden Kamhawi, *National Institute of Allergy and Infectious Diseases*

Hira Nakhasi, *Food and Drug Administration*

Late-Breakers in Basic Science/Molecular Biology

Chair: Gregory Ebel, *Colorado State University*

Naomi Forrester, *University of Texas Medical Branch*

Late-Breakers in Clinical Tropical Medicine and Global Health

Co-Chair: Barbara Herwaldt, *Centers for Disease Control and Prevention*

Co-Chair: Jason Maguire, *Pfizer*

Noreen Hynes, *Johns Hopkins University*

Late-Breakers in Malaria

Co-Chair: Stefan Kappe, *Center for Infectious Disease Research*

Co-Chair: Carol Sibley, *University of Washington*

Jonathan Juliano, *University of North Carolina*

Kent Kester, *Sanofi Pasteur*

Urszula Krzych, *Walter Reed Army Institute of Research*

Sanjai Kumar, *Food and Drug Administration*

Malaria

Chair: Carol Sibley, *University of Washington*

Johanna Daily, *Albert Einstein College of Medicine*

Arlene Dent, *Case Western Reserve University*

Meghna Desai, *Centers for Disease Control and Prevention*

Kamel Hamed, *Novartis*

Mary Hamel, *Centers for Disease Control and Prevention*

Jonathan Juliano, *University of North Carolina*

Patrick Kachur, *Centers for Disease Control and Prevention*

Stefan Kappe, *Center for Infectious Disease Research*

Kent Kester, *Sanofi Pasteur*

Urszula Krzych, *Walter Reed Army Institute of Research*

Sanjai Kumar, *Food and Drug Administration*

Miriam Laufer, *University of Maryland*

Andres Lescano, *Universidad Peruana Cayetano Heredia*

Kim Lindblade, *Centers for Disease Control and Prevention*

Sarah Volkman, *Harvard School of Public Health*

Kim Williamson, *Uniformed Services University of the Health Sciences*

Yimin Wu, *PATH Malaria Vaccine Initiative*

Meet the Professors

Chair: David Boulware, *University of Minnesota*

Molecular Parasitology

Chair: Manoj Duraisingh, *Harvard School of Public Health*

David Abraham, *Thomas Jefferson University*

Ahmed Aly, *Tulane University*

Kami Kim, *Albert Einstein College of Medicine*

Peter Kima, *University of Florida*

Peter Melby, *University of Texas Medical Branch*

Dylan Pillai, *University of Calgary*

Niraj Tolia, *Washington University*

Kim Williamson, *Uniformed Services University of the Health Sciences*

ASTMH Subgroups and Committees (cont.)

One Health: The Interface of Human Health and Animal Diseases

Chair: Christopher Woods, *Durham Veterans Affairs Medical Center*

Claire Cornelius, *United States Army*

David Morens, *National Institute of Allergy and Infectious Diseases*

Kristy Murray, *Baylor College of Medicine*

Opportunistic and Anaerobic Protozoa

Chair: Upinder Singh, *Stanford University*

Boris Striepen, *University of Georgia*

Pneumonia, Respiratory Infections and Tuberculosis

Chair: Robert Breiman, *Emory University*

Abdullah Brooks, *Johns Hopkins University*

Davidson Hamer, *Boston University*

Natasha Hochberg, *Boston University*

Keith Klugman, *Bill & Melinda Gates Foundation*

Samba Sow, *Center for Vaccine Development Mali*

Schistosomiasis-Helminths

Chair: Jennifer Friedman, *Brown University*

Stephen Davies, *Uniformed Services University of the Health Sciences*

Robert Greenberg, *University of Pennsylvania*

Michael Hsieh, *Biomedical Research Institute*

Virology

Chair: Rebeca Rico-Hesse, *Baylor College of Medicine*

Anna Durbin, *Johns Hopkins University Bloomberg School of Public Health*

Sharone Green, *University of Massachusetts*

Maria Guzman, *"Pedro Kouri" Tropical Medicine Institute*

Christopher Mores, *Louisiana State University*

Lyle Petersen, *Centers for Disease Control and Prevention*

Water, Sanitation, Hygiene and Environmental Health

Chair: Pavani Ram, *University at Buffalo*

Joseph Eisenberg, *University of Michigan*

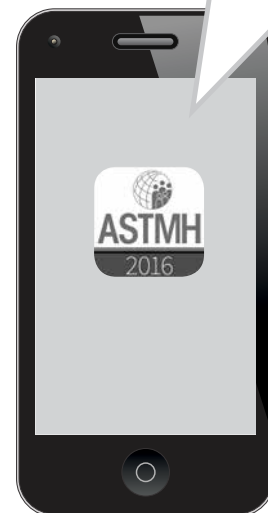
Eric Mintz, *Centers for Disease Control and Prevention*

Christine Moe, *Emory University*

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ASTMH Travel Awards, Fellowships and Grants

ASTMH Annual Meeting Travel Awards

Chair: Nirbhay Kumar, *Tulane University, United States*

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

BILL & MELINDA GATES foundation

ASTMH gratefully acknowledges the support received from the Bill & Melinda Gates Foundation.

Pedro Aguiar, *Fiocruz, Brazil*
Abstract 573

Shehu Awandu, *University of Pretoria, South Africa*
Abstract 293

Sujata Balasubramanian, *University of North Carolina, United States*
Abstract 77

Etienne Bilgo, *IRSS/Center Muraz, Burkina Faso*
Abstract 48

Rebecca Brander, *University of Washington, United States*
Abstract 429

Guido Camargo Espana, *University of Notre Dame, United States*
Abstract 709

Hsiao-Han Chang, *Harvard T.H. Chan School of Public Health, United States*
Abstract 1842

Zaydah de Laurent, *U.S. Army Medical Research Directorate/Walter Reed Project, Kenya*
Abstract 341

Michelle Dao Dong, *University of Western Ontario, Canada*
Abstract 1124

Renato Errea, *Universidad Peruana Cayetano Heredia, Peru*
Abstract 1127

Amal Gadalla, *Sultan Qaboos University, Oman*
Abstract 236

Gabriela Garcia, *Fiocruz, Brazil*
Abstract 1849

Patricia Gomez-Perez, *Barcelona Center for International Health Research, Spain*
Abstract 361

Sarah Gunter, *University of Texas Health Science Center, United States*
Abstract 1149

Claire Heath, *Stanford University, United States*
Abstract 708

Anita Iyer, *University of Utah, United States*
Abstract 12

John Jimah, *Washington University at St. Louis, United States*
Abstract 694

Flora Kano, *Centro de Pesquisas Rene Rachou, Brazil*
Abstract 359

Christian Koepfli, *Walter and Eliza Hall Institute, Australia*
Abstract 647

Fanny Legrand, *National Institute of Allergy and Infectious Diseases/National Institutes of Health, United States*
Abstract 596

Trancizeo Lipenga, *Malawi-Liverpool-Wellcome Trust Clinical Research Program, Malawi*
Abstract 346

Gathsaurie Neelika Malavige, *University of Sri Jayawardenapura, Sri Lanka*
Abstract 101

Vanessa Moraes, *Oswaldo Cruz Foundation, Brazil*
Abstract 1226

Fred Mugabo, *University of Rwanda, Rwanda*
Abstract 143

Mary Muhindo, *Infectious Diseases Research Collaboration, Uganda*
Abstract 388

.

Peninnah Muiruri, *Jomo Kenyatta University of Agriculture and Technology/United States Army Medical Research Unit-Kenya*
Abstract 245

Patrick Mukadi Kakoni, *Institut National de Recherche Biomedicale, Congo*
Abstract 147

Julius Mulindwa, *Makerere University, Uganda*
Abstract 1148

Gladymar Perez, *Universidad Central de Venezuela, Venezuela*
Abstract 1125

Ailie Robinson, *London School of Hygiene & Tropical Medicine, United Kingdom*
Abstract 628

Miryam Romano, *Instituto de Investigaciones en Enfermedades Tropicales, Universidad Nacional de Salta-Argentina*
Abstract 1902

Marlon Saavedra Romero, *Asociacion Benefica Prisma, Peru*
Abstract 176

R. Tedjo Sasmono, *Eijkman Institute for Molecular Biology, Indonesia*
Abstract 122

Smriti Sharma, *Institute of Medical Sciences, India*
Abstract 1904

Maria Simoes, *Johns Hopkins University, United States*
Abstract 1414

David Smith, *Queen's University Belfast, United Kingdom*
Abstract 1814

Itziar Ubillos, *Escriche, ISGlobal, Spain*
Abstract 1320

Andrew Walakira, *Infectious Diseases Research Collaboration, Uganda*
Abstract 234

Tiendrebeogo Wendpayangde, *University of Copenhagen, Denmark*
Abstract 358

Kristine Werling, *Harvard School of Public Health, United States*
Abstract 1828

ASTMH Travel Awards, Fellowships and Grants (cont.)

Burroughs Wellcome Fund-ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases



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

Lauren Cohee, *University of Maryland, United States*
Abstract 15

Andrew DiNardo, *Baylor College of Medicine, United States*
Abstract 1895

Katherine Dobbs, *Case Western Reserve University, United States*
Abstract 364

John Openshaw, *Stanford University, United States*
Abstract 447

American Committee of Medical Entomology (ACME) Student Travel Awards

Chair: Ellen Dotson, Centers for Disease Control and Prevention, United States

The ACME travel awards support travel to the Annual Meeting for Master's, doctoral and post-doctoral students whose work involves arthropods of medical importance.

2016 Recipients

Young Investigator Award – Graduate

Rebecca Love, *University of Notre Dame, United States*

Young Investigator Award – International

Allan Muhwezi, *Makerere University, Uganda*

Young Investigator Award – Post-Doc

Laura Dickson, *Pasteur Institute, France*

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

Chair: Julian Rayner, Wellcome Trust Sanger Institute, United Kingdom

The ACMCIP student travel award recognizes a student or trainee conducting basic parasitology research who is primarily based in a Low or Low-Middle Income Country (LMIC).

2016 Recipient

Emma Harigua Souiai, *Institut Pasteur de Tunis, Tunisia*

American Committee on Arthropod- Borne Viruses (ACAV) Student/ Post-Doc Travel Awards

Chair: Patricia Aguilar, University of Texas Medical Branch, United States

The ACAV travel awards support travel to the Annual Meeting for graduate students or postdoctoral fellows who are actively conducting arbovirus research.

2016 Recipients

Joseph R. Fauver, *Colorado State University, United States*

Claire Jane Heath, *Stanford University, United States*

Debora Charles Kajeguka, *Kilimanjaro Christian Medical University College, United Republic of Tanzania*

Devika Sirohi, *Purdue University, United States*

James David Weger, Jr., *University of Wisconsin Madison, United States*

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

Chair: Juliette Morgan, Centers for Disease Control and Prevention, Tbilisi, Georgia

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

2016 Recipients

Louisa Alexandra Messenger, *London School of Hygiene & Tropical Medicine, United Kingdom*

E. Ross Colgate, *University of Vermont, United States*

ASTMH Travel Awards, Fellowships and Grants (cont.)

Young Investigator Awards

ASTMH gratefully accepts support for these awards in honor of William A. Petri, Sr., and in memory of Annie Liberati.

**ASTMH appreciates the donation of these awards from:
TECHLAB Inc. • ACS Infectious Diseases/ACS Publications
The Petri Family • David Lyerly**

Chair: Daniel Tisch, *Case Western Reserve University, United States*

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. 2016 recipients will be determined at the competitive judging event held on Sunday, November 13, during the Annual Meeting. Winners will be announced during the Awards Program at the opening session.

Congratulations to the 2015 Recipients

(Selected during ASTMH 64th Annual Meeting, October 2015)

Melanie Abongwa, *Iowa State University, United States*

Brandi Freeman, *Albert Einstein College of Medicine, United States*

Emily Gallichotte, *University of North Carolina at Chapel Hill, United States*

Sarah Short, *Johns Hopkins Bloomberg School of Public Health, United States*

Hugo Valdivia, *Universidade Federal de Minas Gerais, Brazil*

First-Tier Mention

Sarah Boudova, *University of Maryland School of Medicine, United States*

Jesse Erasmus, *University of Texas Medical Branch, United States*

Richard Pinapati, *University of Notre Dame, United States*

Brandyce St. Laurent, *National Institutes of Health, United States*

Estela Shabani, *University of Minnesota and Indiana University, United States*

Honorable Mention

Albert Jonathan Auguste, *University of Texas Medical Branch, United States*

Jagrati Jain, *University of Mississippi, United States*

Samantha Nava, *University of Texas Medical Branch, United States*

Rahajeng Tunjungputri, *Diponegoro University, The Netherlands*

Andreea Waltmann, *The Walter and Eliza Hall Institute of Medical Research, Australia*

Elsevier-ASTMH Clinical Research Award

ASTMH appreciates the support of this award by Elsevier.

Chair: M. Patricia Joyce, *Centers for Disease Control and Prevention, United States*

This award recognizes excellence in clinically oriented research presented by students (within 6 months of completing undergraduate or Master's level training, including medical undergraduate degrees) or those in graduate medical training, of work submitted and presented at the Annual Meeting.

2016 recipients will be determined at the competitive judging event held on Sunday, November 13 during the Annual Meeting. Winners will be announced during the Awards Program at the opening session.

2015 Recipients (selected during ASTMH 64th Annual Meeting, October 2015)

First Place Rahajeng N. Tunjungputri, *Diponegoro University, The Netherlands*

Second Place: Sarah Boudova, *University of Maryland School of Medicine, United States*

Third Place: Ross Boyce, *Massachusetts General Hospital, United States*

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ASTMH Travel Awards, Fellowships and Grants (cont.)

Burroughs Wellcome Fund – ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases (\$65,000)

ASTMH is grateful for the continuing commitment from
the Burroughs Wellcome Fund.



Co-Chairs: Terrie Taylor, *Michigan State University, United States*; Joseph Tucker, *UNC China Project, China*

This fellowship encourages long-term career development in tropical infectious diseases by providing support to individuals who will pursue careers focused on clinical research in tropical or developing areas of the world.

2015 Recipients



Lauren Cohee, *University of Maryland, United States*



Heidi Hillesland, *University of Washington, United States*



Matthew Kelly, *Duke University Medical Center, United States*

Benjamin H. Kean Travel Fellowship in Tropical Medicine



Chair: Chandy John, *Indiana University, United States*

Named after renowned educator, physician and researcher Benjamin H. Kean (1912-1993), this fellowship provides travel support to medical students who arrange clinical tropical medicine or tropical medicine research electives overseas.

2016 Recipients

Meagan Barry, *Baylor College of Medicine, United States*

Michael Clark, *University of Notre Dame, United States*

Elizabeth Dupont, *Albert Einstein College of Medicine, United States*

Jessica Eby, *University of Pennsylvania, United States*

Zachary Enumah, *Johns Hopkins University, United States*

Max Feinstein, *Case Western Reserve University, United States*

Michael Harper, *University of Colorado, United States*

Adam Kley, *University of Texas Medical Branch, United States*

Christine Kley, *University of Texas Medical Branch, United States*

Vinay Krupadev, *Northeast Ohio Medical University, United States*

Daniel Liauw, *University of North Carolina at Chapel Hill, United States*

Andrew Mullin, *Wake Forest University, United States*

Ryan Nightingale, *SUNY Upstate Medical University, United States*

Brady Page, *Tulane University, United States*

Anthony Puthumana, *SUNY Upstate Medical University, United States*

Kristi Ray, *Nova Southeastern University College of Osteopathic Medicine, United States*

David Allen Roberts, *University of Washington, United States*

Katherine Ryken, *University of Iowa, United States*

Gurmeet Sohi, *University of Manitoba, Canada*

Brenna Stanczyk, *University of North Carolina, United States*

Tiang (Philip) Zhang, *Loyola University Chicago, United States*



#TropMed16
#IamTropMed

ASTMH Travel Awards, Fellowships and Grants (cont.)

Centennial Travel Award in Basic Science Tropical Disease Research (\$25,000)

*Chair: Joseph Vinetz, University of California San Diego,
United States*

This award provides support to individuals with doctoral-level degrees who travel to laboratories in the tropics to perform molecular, cellular or immunological studies of tropical infectious diseases.

2016 Recipient



*Heather Glasgow, Albert Einstein College of
Medicine, United States*

Robert E. Shope International Fellowship in Infectious Diseases (\$25,000)



*Chair: Ann Powers, Centers for Disease
Control and Prevention, United States*

Named for ASTMH past president Robert E. Shope (1929-2004), one of the world's foremost authorities on insectborne viruses, this fellowship provides support for travel, living expenses and research for doctoral-level scientists working in laboratories

overseas on studies pertaining to arbovirology and/or emerging tropical infectious diseases.

2016 Recipient



*Kayla Barnes, Liverpool School of Tropical
Medicine, United Kingdom*

American Committee of Medical Entomology (ACME) Breakthroughs in Medical Entomology Award

*Chair: Lyric Bartholomay, University of Wisconsin Madison,
United States*

This award recognizes outstanding recent contributions (within the past 5 years) to the study and/or practice of medical entomology that ultimately will contribute to reducing the burden of human diseases transmitted by arthropods. This award is designed to encourage and acknowledge significant advances in the field by investigators at any career stage.

2016 Recipient

*Serap Aksoy, Yale University School of Medicine, United
States*

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

*Chair: Julian Rayner, Wellcome Trust Sanger Institute, United
Kingdom*

This award supports travel expenses for trainees to attend practical training courses in the fields of molecular, cellular or immunoparasitology. Trainees can use the award to attend any post-graduate level training course of at least one day in duration to explore new parasitological systems, gain hands-on skills in working with parasites and their hosts, and obtain advanced knowledge in cutting-edge research topics and technologies.

2016 Recipient

Vanessa Moraes, Oswaldo Cruz Foundation, Brazil

Program Information

Elsevier-ASTMH Clinical Research Award Competition

Marriott – Room A706 (Atrium Level)
Sunday, November 13, Noon – 3:30 p.m.

This award recognizes excellence in clinically oriented research presented by students (within 6 months of completing undergraduate or Master's level training, including medical undergraduate degrees) or those in graduate medical training, of work submitted and presented at the Annual Meeting. Support these young scientists by attending their presentations during this session. View the session schedule on page 83.

Young Investigator Award Competition

Marriott – Rooms A701, A703, A704, A707, A708 (Atrium Level)
Sunday, November 13, 10 a.m. – 3 p.m.

The Young Investigator Award is presented to outstanding young researchers during the Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research. Support these young scientists by attending their presentations during this session. View the session schedule on page 75.

Late-Breaker Abstracts

These sessions feature brief presentations of important new data obtained after the closing date for abstract submission. The schedule for oral Late-Breaker Abstract sessions appears below. Late-Breaker poster presentations will take place during the poster sessions on Monday, Tuesday and Wednesday. A schedule of Late-Breaker Abstract presentations can be found in your registration packet.

Inaugural Alan J. Magill Malaria Eradication Symposium (Symposium 48)

Marriott - Atrium A
Monday, November 14, 4 p.m. - 5:45 p.m.
Supported with funding from the Bill & Melinda Gates Foundation



Alan J. Magill

To honor 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 as the Malaria Director at the Bill & Melinda Gates Foundation, a symposium on malaria eradication will be held each year during the Annual Meeting.

This inaugural symposium will include a historical review of lessons from previous malaria eradication campaigns, cutting-edge science that may transform malaria eradication strategies, the latest results of applications of molecular and immunological tools to understand malaria transmission, and challenges and progress in the development of a Single Encounter Radical Cure and Prophylaxis (SERCaP) drug for malaria eradication. These talks will be followed by a panel discussion of prospects of and progress toward malaria eradication during which diverse viewpoints will be solicited from the panelists and audience.

Meet the Professors Sessions

Although open to all meeting attendees, students and trainees are especially encouraged to attend the Meet the Professors sessions. The speaker will present a clinical case of a tropical disease specific to a particular region that they have found challenging to manage or diagnose.

ACMCIP Abstracts

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

Program Information

Calling All Early- and Mid-Career Attendees

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

Symposium 49

Global Health Education, Service and Research Opportunities for Medical Students and Trainees: Successes, Challenges and Opportunities

Monday, November 14, 4 p.m. – 5:45 p.m.

Marriott – Atrium B

Symposium 60

ACGH Symposium I: Building a Successful Career in Global Health: Global Health Leaders from Around the Globe Share their Experiences

Tuesday, November 15, 8 a.m. – 9:45 a.m.

Marriott – Atrium A

Symposium 73

ACGH Symposium II: Building a Successful Career in Global Health: An Interactive Session with Global Health Experts

Tuesday, November 15, 10:15 a.m. – Noon

Marriott – Atrium A

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

**Refreshments served*

The TropStop — Student/Trainee Lounge

Marriott – Atrium Loft (Atrium Level)

This casual setting, designed with students, trainees and residents in mind (free coffee and free internet), is your place for a break from the fast-pace of the meeting and to relax with colleagues and friends. Back again this year, check out the “Office Hours,” held in the TropStop. This will be your opportunity to meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer your questions about the various bumps and forks in the road.

TropStop Office Hours – Faculty Available

Monday, November 14, 10 – 11 a.m.

Tuesday, November 15, 10 – 11 a.m.

Wednesday, November 16, 10 – 11 a.m.

Point of Entry: First-Time Attendee Orientation

Sunday, November 13

2:30 p.m. – 3:30 p.m.

Marriott — Atrium B

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

Young Investigator Award Competition

Sunday, November 13, 10 a.m. – 3 p.m.

Marriott – Rooms A701, A703, A704, A707, A708 (Atrium Level)

Elsevier-ASTMH Clinical Research Award Competition

Sunday, November 13, Noon – 3:30 p.m.

Marriott – Room A706 (Atrium Level)

Student Reception

Sunday, November 13, 4 p.m. – 5 p.m.

Marriott – Skyline (10th Floor)

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

Meet the Professors 29

Meet the Professors A

Monday, November 14, 12:15 p.m. - 1:30 p.m.

Marriott – Room M103/M104/M105 (Marquis Level)

Meet the Professors 81

Meet the Professors B

Tuesday, November 15, 12:15 p.m. - 1:30 p.m.

Marriott – Room M103/M104/M105 (Marquis Level)

Meet the Professors 133

Meet the Professors C

Wednesday, November 16, 12:15 p.m. - 1:30 p.m.

Marriott – Room M103/M104/M105 (Marquis Level)

Onsite Meeting Information

Poster Sessions

Hilton – Grand Ballroom and Grand Salon (Second Floor)

Three poster sessions will be held in the Grand Ballroom and Grand Salon of the Hilton. 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.

Poster Session Schedule

Poster Session A

Monday, November 14

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 7 p.m.
 Presentations/Light Lunch Noon – 1:45 p.m.
 Dismantle 7 p.m. – 8 p.m.

Poster Session B

Tuesday, November 15

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 7 p.m.
 Presentations/Light Lunch Noon – 1:45 p.m.
 Dismantle 7 p.m. – 8 p.m.

Poster Session C

Wednesday, November 16

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 7 p.m.
 Presentations/Light Lunch Noon – 1:45 p.m.
 Dismantle 7 p.m. – 8 p.m.

POSTER SESSION A

Hilton-Grand Ballroom

Gobal Health

Malaria

Entomology

Virology

ENTRANCE

Hilton-Grand Salon

Bacteriology – Enteric Infections
 Cestodes – Echinococcosis/Hydatid Disease
 Cestodes – Taeniasis and Cysticercosis
 Clinical Tropical Medicine
 Helminths – Nematodes – Filariasis
 (Cellular and Molecular Biology)
 Helminths – Nematodes – Filariasis
 (Clinical)
 Helminths – Nematodes – Filariasis
 (Immunology)
 Integrated Control Measures for Neglected
 Tropical Diseases (NTDs)

Kinetoplastida – Diagnosis and
 Treatment (Including Leishmania and
 Trypanosomes)
 One Health: Interface of Human Health/
 Animal Diseases
 Protozoa – Ameba/Giardia
 Protozoa – Other Protozoa
 Trematodes – Other
 Trematodes – Schistosomiasis – Cellular
 and Molecular Biology
 Water, Sanitation, Hygiene and
 Environmental Health

Late-Breaker Abstracts

ENTRANCE

Program Information

POSTER SESSION B

Hilton-Grand Ballroom

Global Health

Malaria

Entomology

Virology

ENTRANCE

Hilton-Grand Salon

Bacteriology – Enteric Infections
Bacteriology – Other Bacterial Infections
Clinical Tropical Medicine
Helminths – Nematodes – Filariasis (Epidemiology)
Helminths – Nematodes – Filariasis (Other)
Helminths – Nematodes – Intestinal Nematodes
HIV and Tropical Co-Infections

Kinetoplastida – Epidemiology (Including Leishmania and Trypanosomes)
Pneumonia, Respiratory Infections and Tuberculosis
Trematodes – Schistosomiasis – Epidemiology, Diagnosis and Treatment
Water, Sanitation, Hygiene and Environmental Health

Late-Breaker Abstracts

ENTRANCE

POSTER SESSION C

Hilton-Grand Ballroom

Global Health

Malaria

Entomology

Virology

ENTRANCE

Hilton-Grand Salon

Bacteriology – Enteric Infections
Bacteriology – Systemic Infections
Bacteriology – Trachoma
Clinical Tropical Medicine
Helminths – Nematodes – Intestinal Nematodes
HIV and Tropical Co-Infections
Kinetoplastida – Cellular and Molecular Biology (Including Leishmania and Trypanosomes)

Kinetoplastida – Immunology (Including Leishmania and Trypanosomes)
Pneumonia, Respiratory Infections and Tuberculosis
Trematodes – Schistosomiasis – Epidemiology, Diagnosis and Treatment
Trematodes – Schistosomiasis – Immunology
Water, Sanitation, Hygiene and Environmental Health

Late-Breaker Abstracts

ENTRANCE

Onsite: What, When, Where

Social Media at the 65th Annual Meeting

Follow the 65th Annual Meeting on ASTMH social media channels. Visit astmh.org where you can 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 will be able to follow what your colleagues are saying by using the **#TropMed16** and **#IamTropMed** hashtags.



Enjoy classic interviews of pioneers in the field, such as William Reeves, Calista and Ottis Causey, Thomas Weller and Jordi Casals.

ASTMH Twitter Board

Sponsored by Takeda Pharmaceuticals International AG

If you're tweeting during the meeting, be sure to add the hashtag **#TropMed16** 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.

Miss a Session?

All Registrants Receive a Webcast Library

Can't figure out how to be in two places at once? Problem solved! All registrants will receive access to audio recordings and slides of select sessions immediately after the Annual Meeting.

Please note that the entire content of the Annual Meeting will not be available.

NEW THIS YEAR!

**Meeting App &
FREE Wi-Fi at the
Marriott**



Onsite: What, When, Where

Registration

Marriott – Marquis Foyer

Pre-Meeting Course Registration Hours

Saturday, November 12 10 a.m. – 2 p.m.

Annual Meeting Registration Hours

Sunday, November 13 7 a.m. – 6 p.m.

Monday, November 14 7 a.m. – 5 p.m.

Tuesday, November 15 7 a.m. – 5 p.m.

Wednesday, November 16 7 a.m. – 5 p.m.

Thursday, November 17 7 a.m. – 10:30 a.m.

The following food functions are included in the registration fee:

- Opening 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. Do not place a business card into your badgeholder as identification. 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 Sunday and admission to the exhibit hall, plenary sessions, poster sessions and food functions only.

Hotel

The Atlanta Marriott Marquis and the Hilton Atlanta are the sites for all Annual Meeting activities. They are connected by a covered bridge from the Marquis level of the Marriott to the second floor of the Hilton.

Atlanta Marriott Marquis

265 Peachtree Center Avenue

Atlanta, GA 30303 USA

Phone +1-404-521-0000

Fax +1-404-586-6299

Valet parking fee: \$35 USD daily

Hilton Atlanta

255 Courtland Street, N.E.

Atlanta, GA 30303 USA

Phone +1-404-659-2000

Fax +1-404-221-6368

Valet parking fee: \$36 USD daily

Messages and Emergency Calls

A message board will be available in the ASTMH registration area on the Marquis level of the Marriott. Check the message board often to retrieve your messages. Phone calls should be directed to +1-404-521-0000, the main switchboard of the Marriott. Callers should ask to be connected to the ASTMH registration desk. Faxes can be sent to the hotel at +1-404-586-6299.

Americans with Disabilities Act (ADA)

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

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 using 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.

Impromptu Meeting Rooms for Attendees

Rooms 206 and 207 on the second floor of the Hilton are designated for committee meetings and other group meetings. Meeting room reservations are available on a first-come, first-served basis. Use the sign-up sheet located outside the room to reserve meeting time for your group.

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

Marriott – Room M102 (Marquis Level)

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, November 13 Noon – 5:30 p.m.

Monday, November 14 7:45 a.m. – 5 p.m.

Tuesday, November 15 8 a.m. – 5 p.m.

Wednesday, November 16 8 a.m. – 5 p.m.

Exhibits

Marriott – International Hall

The Annual Meeting features an exposition of displays by leading suppliers and vendors. A complete exhibitor and supporter directory starts on page 58.

Onsite: What, When, Where

Exhibit Hours

Sunday, November 13	7 p.m. – 9:30 p.m.
Monday, November 14	9:30 a.m. – 10:30 a.m. Noon – 1:45 p.m. 3:15 p.m. – 4:15 p.m.
Tuesday, November 15	9:30 a.m. – 10:30 a.m. Noon – 1:45 p.m. 3:15 p.m. – 4:15 p.m.
Wednesday, November 16	9:30 a.m. – 10:30 a.m. Noon – 2:30 p.m.

ASTMH Subgroup Information Tables

Marriott – International Hall

Visit the information tables in the ASTMH exhibit hall to learn about programs and activities for these subgroups:

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

Internet Nook — FREE Online Access

Marriott – Imperial Foyer

Sponsored by Takeda Pharmaceuticals International AG

Visit the Internet Nook in the Imperial Foyer on the Marquis level of the Marriott. As a courtesy to other attendees, please limit your computer use to 10 minutes per visit.

Career Development Employment Opportunities

Bulletin boards for posting employment opportunities are available in the registration area.

Career Center

Our online Career Center, available at astmh.org, features a wide range of available positions in the tropical medicine and hygiene field. Members can post resumes anonymously and search for jobs by keyword, location and job type. Employers can set up an account, post open positions on the ASTMH website and search the ASTMH resume bank for qualified applicants.

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 32.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Register for CME Credit

The CME documentation fee is \$150. CME certificates will be mailed in early January 2017. Visit the ASTMH Internet Nook on the Marquis level of the Marriott and complete your online CME Attendance and Evaluation Form while at the meeting or access the evaluation form at astmh.org/annual-meeting.

Physician Assistant Continuing Education Credit

AAPA accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit™* from organizations accredited by ACCME or a recognized state medical society. Physician Assistants may receive a maximum of 32.25 *AMA PRA Category 1 Credits™* for completing this program. Register for CME credit (\$150) at the ASTMH registration desk and submit an evaluation following the conference at astmh.org/annual-meeting.

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 determining body, the American Association of Veterinary State Boards RACE Committee. Anticipating approval, ASTMH is typically notified just prior to the start of the Annual Meeting. Visit the onsite registration desk for a veterinarian continuing education evaluation form. This form will indicate the specific sessions that qualify for veterinary CE credits. Pay the \$150 documentation fee at the registration desk. Complete and return the evaluation form either to the registration desk by Thursday, November 17 at 10:30 a.m. or send the form to the ASTMH office following the meeting. A continuing education certificate will be sent by postal mail in January 2017.

Full Disclosure Policy Affecting CME Activities

Consistent with ASTMH policy, faculty are required to disclose any economic or other personal interests that create, or may be perceived as creating, a conflict of interest related to the material discussed. ASTMH has policies in place to resolve all conflicts of interest. Faculty are required to disclose at the beginning of their presentation(s) any relevant financial relationships, as well as any product or drug mentioned during the presentation that is not labeled for the use under discussion or is still investigational. This policy is intended to allow attendees to form their own judgments about such material.

Disclaimer

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

Onsite: What, When, Where

Information for Speakers: Speaker Ready Room and Audiovisual Guidelines

Marriott – International A

Hours

Sunday, November 13	Noon – 6 p.m.
Monday, November 14	7 a.m. – 5 p.m.
Tuesday, November 15	7 a.m. – 5 p.m.
Wednesday, November 16	7 a.m. – 5 p.m.
Thursday, November 17	7 a.m. – 10:30 a.m.

Important: Widescreen Format for Slide Presentations! The slide presentation format is widescreen HD format (16:9 aspect ratio).

Audio-visual 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.

Important Things to Remember

- The slide presentation format is widescreen HD format (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 PowerPoint 2013 or as an Adobe PDF file
- Save your file in a PPTX format for both Macintosh and PC
- All meeting rooms will be equipped with one Windows 7 computer and PowerPoint 2013 software

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, November 13 at noon.

Slide Presentation Format Guidelines

- Save your presentation as a Microsoft PowerPoint file in a format that is compatible with PowerPoint 2013 or as an Adobe PDF file.
- Macintosh and PC versions of PowerPoint, Canvas and Keynote allow you to save presentations in a variety of formats that meet these specifications. Please save your file in a PPTX format for both Macintosh and PC.
- Test your presentation on a Windows machine running Windows 7 to ensure your presentation runs properly.
- For Macintosh PowerPoint users, insert pictures using “insert” —“picture” — “from file,” rather than copying and pasting, to ensure they will display properly on a Windows PC.

All meeting rooms will be equipped with one Windows 7 computer and PowerPoint 2013 software, 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 arrive at the Speaker Ready Room in advance of your session, with your presentation saved to a USB storage device (USB flash drive).

Embedded Videos

If your presentation includes video, it is imperative that you visit the Speaker Ready Room in advance of your presentation to ensure compatibility with meeting equipment. It is best to use a “wmv,” “avi” or “Mpg” or “MP4” format for embedded video, not QuickTime “mov.” Do not use Sorenson compression on avi files from Mac computers. You must upload your video files, as well as your PowerPoint file, for the videos to play.

Saving Your Presentation File for Onsite Submission in Speaker Ready Room

- Save your file(s) to a USB storage device (USB Flash Drive).
- When building your presentation, all files (PowerPoint and external fonts) associated with your presentation must reside in one folder/location.
- When creating your media for transfer, copy the entire folder to the portable disk.
- To ensure success of your presentation, create a backup copy of your presentation on a separate portable disk.
- If you are speaking in more than one session, you must organize and clearly label your presentations in separate folders.
- Do not put more than one presenter’s files on the same flash drive. Each presenter must have his or her own media.
- We recommend that you scan your USB Flash Drive or USB portable devices with your computer’s antivirus software. This procedure is the best precaution against spreading any hidden viruses or malware to other computers. Viruses can often cause presentations to run poorly or not at all, as well as affect the performance of the computers provided for the meeting.

Sponsored Symposia

Applying Experience from the Management of Infectious Diseases to Address the Rise of Chronic Illness in the Developing World

Sponsored by Novartis Social Business

Marriott - Imperial A

Monday, November 14, 2016 7:15 p.m. – 9 p.m.

Novartis has a wealth of experience in tackling infectious diseases through the Malaria Initiative business and is also leading in operational innovation in social business models to target non-communicable diseases (NCDs) with the launch of the Novartis Access business for NCD medicines in low-income countries. This session is intended to cover themes of Access to Medicines by applying learnings from Malaria to the rising tide of NCDs. The panelists will discuss how the progress in the fight against Malaria contributes to higher life expectancy and the rise of NCDs, the policy and operational implications of addressing the dual burden of diseases, how learning from impact measurement from infectious diseases can inform M&E for future Access initiatives for chronic diseases, and what is the vision to lead the pharmaceutical industry in Sustainable Development Goals era.

CHAIR

Richard G. Marlink

Director, Rutgers Global Health Institute, Founding Henry Rutgers Professor of Global Health, Rutgers Biomedical Health Sciences (RBHS), New Brunswick, NJ, United States

PROGRESS IN MALARIA CONTROL AND ELIMINATION AND THE RISE OF NON-COMMUNICABLE DISEASES

Charles Nelson

Chief Executive, Malaria Consortium, London, United Kingdom

EVALUATING THE IMPACT OF ACCESS TO MEDICINES PROGRAMS

Peter Rockers

Assistant Professor, Global Health, Boston University School of Public Health, Boston, MA, United States

MINISTRY OF HEALTH PERSPECTIVE ON POLICY AND OPERATIONAL IMPLICATIONS WHEN ADDRESSING DUAL DISEASE BURDEN

Marie Aimee Muhimpundu

Medical Epidemiologist, NCD Unit, Rwanda Biomedical Centre, Kigali, Rwanda

THE NOVARTIS VISION TO LEAD THE PHARMACEUTICAL INDUSTRY IN THE SUSTAINABLE DEVELOPMENT GOALS ERA

Harald Nusser

Global Head, Novartis Malaria Initiative and Novartis Access, Basel, Switzerland

Q&A SESSION

Moderated by **Richard G. Marlink**

Director, Rutgers Global Health Institute, Founding Henry Rutgers Professor of Global Health, Rutgers Biomedical Health Sciences (RBHS), New Brunswick, NJ, United States

Malaria. Faster and More Accurate Diagnosis is Vital in the Fight for Eradication

Sponsored by Meridian Bioscience, Inc.

Marriott - Marquis D

Monday, November 14, 2016 7:15 p.m. – 9 p.m.

An overview from two key experts on the challenges and advances for diagnosing Malaria in two different settings: pre-elimination areas in developing countries and imported Malaria to developed countries. In Sub-Sahara Africa, the sub-microscopic malaria is not just for the carrier but also for the community they live in. Adults with malaria may express low/delayed symptoms that might be transmitted to the youngest in the community. This ongoing threat of submicroscopic infection calls for additional diagnostic tools needed to track the malaria reservoir. On the other hand, European cities like London, Paris and Rome are seeing malaria increase as migration rises, and the magnitude of the problem is thought to be much greater than the statistics indicate.

CHAIR

Daouda Ndiaye, PharmD, PhD

Professor of Parasitology and Mycology, University Cheikh Anta Diop, Dakar, Senegal

Carlo Severini

Senior Researcher, Department of Infectious, Parasitic and Immunomediated Diseases, Istituto Superiore di Sanità, Rome, Italy

DIAGNOSING MALARIA RESERVOIR IN PRE-ELIMINATION REGIONS

Daouda Ndiaye, PharmD, PhD

Professor of Parasitology and Mycology, University Cheikh Anta Diop, Dakar, Senegal

IMPORTED MALARIA IN EUROPE: CURRENT SITUATION AND FUTURE PROSPECTIVE

Carlo Severini

Senior Researcher, Department of Infectious, Parasitic and Immunomediated Diseases, Istituto Superiore di Sanità, Rome, Italy

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 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.

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®).

2017 Update Course in Clinical Tropical Medicine and Travelers' Health

In Collaboration with the
North American Refugee
Health Conference

June 14-15, 2017

Sheraton Centre Toronto
Toronto, Ontario, Canada

JUNE
2017
14-15

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

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®) as a means to distinguish individuals who have demonstrated advanced knowledge and experience in clinical tropical medicine and travelers' health. The CTropMed® is conferred on licensed medical professionals who 1) have passed an ASTMH-accredited diploma course or have extensive professional experience in clinical tropical medicine, 2) have experience in a clinical setting in the tropics, and 3) have passed the ASTMH Examination in Clinical Tropical Medicine and Travelers' Health.

Save the Date for the 2018 CTropMed®!

The next CTropMed® Exam open for registration will be held on Saturday, October 27, 2018, in conjunction with the ASTMH 67th Annual Meeting, October 28 – November 1, 2018, Sheraton New Orleans, New Orleans, LA.

OCTOBER
2018
27

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.

The 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.

MARK YOUR CALENDAR World Malaria Day 2017 April 25, 2017

APRIL
2017
25

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.

Session Topic Guide

General Interest/Multidisciplinary

Sunday

Plenary Session 1: Plenary Session I: Keynote Address and Awards Program

Monday

Poster Session 26: Poster Session A: Presentations and Light Lunch

Plenary Session 52: Plenary Session II: Charles Franklin Craig Lecture

Tuesday

Poster Session 79: Poster Session B: Presentations and Light Lunch

Symposium 90: The Washington, DC Primer: Advocating for R&D Funding – The Who, What, Where, Why and How

Plenary Session 104: Plenary Session III: Commemorative Fund Lecture

Wednesday

Poster Session 131: Poster Session C: Presentations and Light Lunch

Plenary Session 158: Plenary Session IV: President's Address and Annual Business Meeting

Clinical Tropical Medicine

Monday

Symposium 18: Refugee Health: Clinical Case Studies

Scientific Session 21: Clinical Tropical Medicine I

Late Breaker Abstract Session 27: Late Breakers in Clinical Tropical Medicine and Global Health

Meet the Professors 29: Meet the Professors A: Enigmatic and Teaching Cases

Symposium 44: Next-Generation Sequencing Technologies to Advance Global Infectious Disease Research

Tuesday

Scientific Session 61: Clinical Tropical Medicine II

Meet the Professors 81: Meet the Professors B: Enigmatic and Teaching Cases

Symposium 89: Clinical Group Symposium I (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH)

Symposium 101: Clinical Group Symposium II (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH)

Wednesday

Symposium 114: Febrile Illness - Epidemiology, Diagnostics, Management

Symposium 120: Brain-Eating *Amoebae*: Shining Light on the Most Neglected Tropical Diseases

Symposium 126: State of the Art in Controlled Human Infection Models for Tropical Diseases

Meet the Professors 133: Meet the Professors C: Enigmatic and Teaching Cases

Symposium 153: An Integrated Approach to Tropical Dermatology

Thursday

Symposium 165: Clinical Update - What's New in Literature?

Diarrhea and Bacterial Illness

Monday

Scientific Session 3: Bacteriology: Cholera

Symposium 45: Bridging the Gap Towards Defining the Burden of Typhoid in Sub-Saharan Africa and Southeast Asia

Tuesday

Scientific Session 59: Bacteriology: Trachoma

Symposium 67: Perspectives on the Global Burden of Diarrhea and Refined Strategies for Quantification

Scientific Session 83: Bacteriology: Diarrhea - Determinants and Prevention

Wednesday

Scientific Session 121: Bacteriology: Febrile Illnesses - Leptospirosis and Others

Symposium 138: Confronting the Burden of Shigellosis Through Vaccine Development

Symposium 149: Prospects for Development of Standalone and Combination Vaccines against ETEC

Thursday

Symposium 175: Non-Typhoidal Salmonella Invasive Infections in Africa: Epidemiology, Vaccine Development and Genomics

Session Topic Guide (cont.)

Ectoparasite-Borne Diseases

Tuesday

Symposium 84: Human Babesiosis: A Neglected Tick-Borne Parasitic Disease

Wednesday

Scientific Session 122: Ectoparasite-Borne Diseases

Entomology

Monday

Symposium 4: CRISP/Cas Gene Drive Technologies for Vector Control

Scientific Session 12: Mosquitoes: Operational Control

Symposium 17: Characterizing Spatiotemporal Patterns of Insecticide Resistance in Disease Vectors, Identifying the Drivers behind These Patterns and Understanding Their Impact

Scientific Session 40: Mosquitoes: Vector Biology - Epidemiology I

Scientific Session 51: Mosquitoes: Vector Biology - Epidemiology II

Tuesday

Symposium 62: American Committee of Medical Entomology (ACME) Symposium I: Annual Business Meeting, Awards and Hoogstraal Medal Presentations and Networking Reception

Symposium 75: American Committee of Medical Entomology (ACME) Symposium II: Applied Medical Entomology: Bridging Field and Laboratory Studies

Wednesday

Scientific Session 116: Arthropods: Other Arthropods

Scientific Session 130: Mosquitoes: Biochemistry and Molecular Biology

Scientific Session 144: Mosquitoes: Molecular Genetics and Genomics

Symposium 151: A Shift in Biting Behavior: Outdoor Host-Seeking Behavior of Malaria Vectors and the Potential Impact on Malaria Control

Thursday

Scientific Session 161: Mosquitoes: Insecticide Resistance and Control

Filariasis

Monday

Scientific Session 2: Filariasis: Epidemiology and Control I

Scientific Session 14: Filariasis: Epidemiology and Control II

Scientific Session 30: Filariasis: Molecular Biology, Immunology and Diagnostics

Tuesday

Symposium 54: Advanced Diagnostics in Filarial Infections

Thursday

Scientific Session 178: Filariasis: Clinical

Global Health

Monday

Symposium 8: CadMIA and CHAMPS: Pathways towards Defining Preventable Causes of Death in Children in High Mortality Areas via Minimally Invasive Tissue Sampling (MITS)

Symposium 19: Disease Elimination and Eradication: Programmatic Best Practices, Lessons Learned and Challenges

Symposium 22: Developing Responsible Data Sharing for Tropical Medicine

Symposium 28: Accelerate to Equal: Engaging Women in Vector Control

Symposium 36: Emerging Infectious Diseases and Social Media

Symposium 37: A Decade of U.S. Government Commitment to Combatting Malaria and Saving Lives: The President's Malaria Initiative, 2006-2015

Symposium 41: Terrorism, Conflict, Epidemics and Acts of God: The Impact of the Unpredictable on NTD Programs

Symposium 44: Next-Generation Sequencing Technologies to Advance Global Infectious Disease Research

Symposium 49: Global Health Education, Service and Research Opportunities for Medical Students and Trainees: Successes, Challenges and Opportunities

Symposium 50: Mapping the Denominator

Tuesday

Scientific Session 56: Global Health: Ebola

Symposium 60: ASTMH Committee on Global Health (ACGH) Symposium I: Building a Successful Career in Global Health-Global Health Leaders from Around the Globe Share Their Experiences

Session Topic Guide (cont.)

Symposium 70: Building Clinical Research Capacity in Resource-Limited Countries: Lessons from Sub-Saharan Africa and South Asia

Symposium 73: ASTMH Committee on Global Health (ACGH)

Symposium II: Building a Successful Career in Global Health - An Interactive Session with Global Health Experts

Symposium 82: Congenital Vector-Borne Diseases and Early Child Neurodevelopmental Outcomes

Symposium 85: Using Remote Sensing Technology and Models from NASA Satellite in Predicting and Mitigating Outbreaks of Infectious Disease

Symposium 90: The Washington, DC Primer: Advocating for R&D Funding – The Who, What, Where, Why and How

Symposium 94: Malaria Economics Research Priorities: Are We Supporting Program Scale Up Effectively?

Plenary Session 104: Plenary Session III: Commemorative Fund Lecture

Symposium 105: The Refugee Journey to Wellbeing

Wednesday

Symposium 114: Febrile Illness - Epidemiology, Diagnostics, Management

Symposium 126: State of the Art in Controlled Human Infection Models for Tropical Diseases

Symposium 134: Global Antibiotic Resistance Partnership and ResistanceMap

Scientific Session 136: Global Health: mHealth, Vaccines and Strategies

Symposium 137: Rebuilding Health Systems for Ebola Survivors

Symposium 142: Bridging the Gap between Patients and Access to Chagas Treatment: Lessons Learned from Scaling-up Models in Latin America and the USA

Symposium 143: Integrated Community Case Management (iCCM) and the Continuum of Care: Strategy to Improve Quality of Care and Rational Drug Use

Scientific Session 147: Global Health: Febrile Illness and Malaria

Symposium 152: Careers in Refugee Health: Case-Based Perspectives and Descriptions

Symposium 157: Poor Quality Medicines - The Third Man Threat (with apologies to Graham Greene)

Plenary Session 158: Plenary Session IV: President's Address and Annual Business Meeting

Thursday

Symposium 159: New Tools and New Rules for River Blindness Elimination: Where Do We Go from Here?

Symposium 160: Zika Virus in Salvador, Brazil and in Puerto Rico

Symposium 174: The Value of Innovative Drugs for Low-Resource Settings: Can We Develop Novel Access Policies for Novel Medicines?

Symposium 177: Advancing Global Health Security through Social, Behavioral and Communications Science: Lessons from the West Africa Ebola Outbreak

Scientific Session 180: Global Health: Maternal and Child Health

Symposium 181: Enhancement of Syndromic Surveillance, Outbreak-Response and Disease Elimination through Innovative Laboratory Diagnostics

HIV and Tropical Co-Infections

Tuesday

Symposium 65: If You Neglect It, It Will Grow: Addressing Fungal Infections in Advanced HIV Care

Thursday

Scientific Session 182: HIV and Tropical Co-Infections

Integrated Control Measures for Neglected Tropical Diseases (NTDs)

Monday

Symposium 19: Disease Elimination and Eradication: Programmatic Best Practices, Lessons Learned and Challenges

Symposium 41: Terrorism, Conflict, Epidemics and Acts of God: The Impact of the Unpredictable on NTD Programs

Tuesday

Scientific Session 88: Integrated Control Measures for Neglected Tropical Diseases

Symposium 93: Co-Administration of Drugs for NTDs: Efficacy, Efficiency and Safety in Mass Drug Administration Programs

Symposium 100: Quantitative Approaches to Support the Achievement of Elimination Targets for Intensified Disease Management NTDs

Session Topic Guide (cont.)

Wednesday

Symposium 106: Community Providers for Neglected Tropical Disease Control: The “Building Blocks” for Program Success

Symposium 124: Evaluating Readiness and Quality of Essential Surgical Services: Evidence from Morbidity Management and Disability Prevention of Neglected Tropical Diseases

Symposium 127: Elimination of *Schistosomiasis japonica* from China

Thursday

Symposium 170: Making Money Matter: Cost-Effectiveness and NTD Interventions

Intestinal and Tissue Helminths, Cestodes

Monday

Scientific Session 10: Cestodes: Cysticercosis and Echinococcosis

Tuesday

Scientific Session 77: Intestinal and Tissue Helminths: Soil-Transmitted Helminths – Epidemiology and Control

Thursday

Scientific Session 164: Intestinal and Tissue Helminths: Soil-Transmitted Helminths – Biology and Immunology

Kinetoplastida

Monday

Symposium 13: Hot Topics in Leishmaniasis

Scientific Session 47: Kinetoplastida: Epidemiology and Diagnosis

Tuesday

Symposium 74: Recent Advances in the Development of New Treatments for Chronic Chagas Disease

Symposium 102: Approaches, Advances and Needs for the Elimination of Human African Trypanosomiasis (HAT)

Wednesday

Scientific Session 112: Kinetoplastida: Diagnosis, Treatment and Vaccine Development

Thursday

Scientific Session 176: Kinetoplastida: Molecular Biology and Immunology

Malaria

Monday

Scientific Session 5: Malaria: Epidemiology I - Intervention Studies and Evaluation

Scientific Session 6: Malaria: Drug Development - Preclinical to Clinical Trials

Scientific Session 11: Malaria: Biology and Pathogenesis

Scientific Session 16: Malaria: Chemotherapy and Drug Resistance - Looking for Drug Resistance

Scientific Session 20: Malaria: Vector Control Interventions in Africa - LLINs and Beyond

Symposium 24: Immune Memory Responses in Malaria

Symposium 25: Tailored Surveillance Strategies for High-Risk Populations in Malaria Elimination Settings

Symposium 32: Seasonal Malaria Chemoprevention at Scale: Evidence from Eight Countries

Symposium 33: Generating Evidence for Malaria Elimination in the Greater Mekong Sub-Region

Scientific Session 34: Malaria: Vaccines - Diverse Approaches

Symposium 37: A Decade of U.S. Government Commitment to Combatting Malaria and Saving Lives: The President's Malaria Initiative, 2006-2015

Scientific Session 46: Malaria: Epidemiology II - Descriptive and Risk-Factor Studies

Symposium 48: Inaugural Alan J. Magill Malaria Eradication Symposium

Tuesday

Symposium 55: Malaria Elimination Strategies Using Targeted and Mass Drug Administration: Lessons from the Field

Symposium 58: Molecular Basis of Severe Malarial Anemia (SMA): Bridging the Gap between Findings in Human Studies, Pathogenic Mechanisms in Non-Human Primates and Mathematical Modeling

Symposium 64: Where Will the Next Malaria Medicines Come From?

Symposium 68: Moving Toward a PfSPZ Malaria Vaccine for Protecting Travelers and Use in Elimination Campaigns

Symposium 69: Ivermectin to Reduce Malaria Parasite Transmission: Clinical Trials, Models, and Regulatory Pathways to Accelerate Implementation

Symposium 76: How Can We Use the Tools of Genomics and Evolution to Study and Control Malaria?

Symposium 87: Global Call to Action to Increase Coverage of Intermittent Preventive Treatment in Pregnancy: Progress and Lessons Learned

Session Topic Guide (cont.)

Scientific Session 91: Malaria: Elimination Strategies and New Tools

Symposium 92: New Approaches to Examining Antigenic Variation in Multiple *Plasmodium* Species and in the Course of Infections in Humans, Non-Human Primates and Mosquitoes

Symposium 94: Malaria Economics Research Priorities: Are We Supporting Program Scale Up Effectively?

Symposium 95: Current Challenges and Opportunities for Treating and Eliminating ACT-Resistant *Plasmodium falciparum* Malaria in the Greater Mekong Subregion

Symposium 96: Integration of Mass Drug Administration with Vector Control Approaches: An Enhanced Malaria Elimination Package

Wednesday

Scientific Session 111: Malaria: Diagnostics

Scientific Session 113: Malaria: Chemotherapy for Control and Elimination

Symposium 115: Understanding, Detecting, Preventing the Fertilization of *Plasmodium* Parasites

Scientific Session 117: Malaria: Control Interventions - Operational Innovations and Challenges

Symposium 118: Implications of Insecticide Resistance on Malaria Vector Control: Outcomes from a Multi-Country Evaluation

Scientific Session 128: Malaria: Immunology

Scientific Session 129: Malaria: Modeling

Late Breaker Abstract Session 132: Late Breakers in Malaria

Symposium 135: malERA Refresh: Updating the Malaria Eradication Research Agenda

Symposium 139: Unleashing the Potential of Malaria Parasite Genetics Research in Africa: An Update on the *Plasmodium* Diversity Network Africa (PDNA)

Symposium 145: Novel Biomarkers and Predictors of Cerebral Malaria Severity and Targets for Intervention

Symposium 146: Malaria Pre-Elimination: Ensuring Correct Care of Reproductive Age Women

Symposium 148: Novel Phenotypic and Genotypic Markers of Piperaquine Resistance and Dihydroartemisinin-Piperaquine Treatment Failure in Cambodia

Symposium 150: Towards Better Surveillance: Assessing and Building on Routine Systems to Develop Specialized Surveillance Platforms for Elimination

Symposium 151: A Shift in Biting Behavior: Outdoor Host-Seeking Behavior of Malaria Vectors and the Potential Impact on Malaria Control

Scientific Session 156: Malaria: Parasite, Vector and Host Genomics

Thursday

Symposium 162: Towards Regional Eradication of Malaria in Mesoamerica

Scientific Session 169: Malaria: Control Interventions - Assessment of Quality and Effectiveness

Symposium 172: Key Knowledge Gaps Concerning the Impact of Interventions on Malaria Transmission

Molecular Parasitology

Monday

Scientific Session 23: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Helminths - Cellular, Molecular and Immunoparasitology

Symposium 35: Malaria Metabolomics, Data Integration Challenges and Progress

Tuesday

Symposium 53: The 14th Annual American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium: Parasitology and the CRISPR-Cas Revolution

Scientific Session 72: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoal Diseases - Biology and Pathogenesis

Late Breaker Abstract Session 80: Late Breakers in Basic Science/Molecular Biology

Wednesday

Scientific Session 109: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoans – Molecular Biology

Scientific Session 123: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Kinetoplastida – Molecular, Cellular and Immunobiology

Thursday

Scientific Session 166: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Helminths - Immunology

Scientific Session 168: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria - Biology and Pathogenesis

Symposium 179: Gene Drives on the Horizon: Advancing Science, Navigating Uncertainty and Aligning Research with Public Values

Session Topic Guide (cont.)

One Health: Interface of Human Health/Animal Diseases

Monday

Scientific Session 43: One Health: Interface of Human Health/Animal Diseases

Wednesday

Symposium 155: Fifteen Years of Nipah Virus in Bangladesh: The Latest Findings on Viral Genetics, Transmission in Humans and the Reservoir Host, and Prospects for a Human Vaccine

Opportunistic and Anaerobic Protozoa

Wednesday

Scientific Session 108: Protozoa

Symposium 120: Brain-Eating *Amoebae*: Shining Light on the Most Neglected Tropical Diseases

Pneumonia, Respiratory Infections and Tuberculosis

Tuesday

Symposium 71: Key Elements for Improving Management of Pneumonia in Children in Resource-Poor Settings

Symposium 98: Results from the Pneumonia Etiology Research for Child Health Study (PERCH)

Wednesday

Scientific Session 110: Pneumonia, Respiratory Infections and Tuberculosis I

Thursday

Symposium 167: Ending Preventable Maternal and Child Deaths Due to Tuberculosis

Scientific Session 173: Pneumonia, Respiratory Infections and Tuberculosis II

Schistosomiasis-Helminths

Monday

Scientific Session 39: Schistosomiasis: Epidemiology and Control

Tuesday

Symposium 63: Schistosomiasis Control with a View Toward Elimination

Scientific Session 99: Schistosomiasis: Immunology, Pathology and Diagnostics

Wednesday

Symposium 127: Elimination of *Schistosomiasis japonica* from China

Scientific Session 140: Schistosomiasis and Other Trematodes: Transmission and Treatment

Virology

Sunday

Plenary Session 1: Plenary Session I: Keynote Address and Awards Program

Monday

Symposium 9: Zika Virus: Public Health Response and Disease Manifestations

Scientific Session 15: Dengue: Vaccines/Epidemiology

Scientific Session 31: West Nile and Other Flaviviruses

Symposium 38: Ebola: Drivers of Transmission, Vaccines, Clinical Sequelae and Asymptomatic Infection

Scientific Session 42: Chikungunya and Other Alphaviruses

Plenary Session 52: Plenary Session II: Charles Franklin Craig Lecture

Tuesday

Symposium 66: Strategies to Control Hepatitis E Virus, an Emerging Global Pathogen

Symposium 78: Update on Research and Control of Viral Diseases in Cuba

Symposium 86: American Committee on Arthropod-Borne Viruses (ACAV) Symposium I: Annual Business Meeting, Awards and Research Presentations by Previous Awardees

Symposium 97: American Committee on Arthropod-Borne Viruses (ACAV) Symposium II: Emergence, Evolution and Control of Zika Virus

Session Topic Guide (cont.)

Wednesday

Scientific Session 107: Dengue: Pathogenesis/Immunology

Symposium 119: Yellow Fever: Scientific and Logistical Challenges for a Preventable Disease

Scientific Session 125: Virology: Ebola

Scientific Session 141: Zika

Symposium 155: Fifteen Years of Nipah Virus in Bangladesh: The Latest Findings on Viral Genetics, Transmission in Humans and the Reservoir Host, and Prospects for a Human Vaccine

Thursday

Scientific Session 171: Virology: Other Viruses

Water, Sanitation, Hygiene and Environmental Health

Monday

Symposium 7: The Influence of Behavior and Culture within WASH Interventions and Environmental Disease Transmission

Tuesday

Scientific Session 57: Water, Sanitation, Hygiene and Environmental Health I

Wednesday

Symposium 154: The WASH Benefits Study: Cluster-Randomized Trials in Bangladesh and Kenya to Measure the Effects of Individual and Combined Water Quality, Sanitation, Handwashing and Nutrition Interventions on Child Growth and Diarrhea

Thursday

Scientific Session 163: Water, Sanitation, Hygiene and Environmental Health II

ASTMH Council, Subgroup and Committee Meetings

Saturday, November 12

ASTMH Council Meeting

Marriott - Marquis D

Saturday, November 12, Noon - 6 p.m.

Sunday, November 13

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

Marriott - Room L401/L402

Sunday, November 13, 11 a.m. - Noon

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

Marriott - Room L401/L402

Sunday, November 13, Noon - 2 p.m.

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

Marriott - Room L401/L402

Sunday, November 13, 2 p.m. - 3:30 p.m.

Young Investigator Award Committee Meeting

Marriott - Room A701

Sunday, November 13, 3 p.m. - 4 p.m.

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

Marriott - Room M302

Sunday, November 13, 3:30 p.m. - 5:30 p.m.

ASTMH Committee on Global Health (ACGH) Council Meeting

Marriott - Room M303

Sunday, November 13, 3:30 p.m. - 5:30 p.m.

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

Marriott - Room M201

Sunday, November 13, 3:30 p.m. - 5:30 p.m.

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

Marriott - Room L401/L402

Sunday, November 13, 4 p.m. - 5:30 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Marriott - Room M304

Sunday, November 13, 4 p.m. - 5:30 p.m.

Monday, November 14

Clinical Standards and Treatment Guidelines Committee Meeting

Marriott - Room M304

Monday, November 14, 7 a.m. - 8 a.m.

ASTMH Diploma Course Directors Meeting

Marriott - Room M303

Monday, November 14, 7 a.m. - 8 a.m.

ASTMH Travel Awards Meeting

Marriott - Room M301/M302

Monday, November 14, 7 a.m. - 8 a.m.

Courses Committee Meeting

Marriott - Room M304

Monday, November 14, 12:15 p.m. - 1:30 p.m.

Kean Fellowship Committee Meeting

Marriott - Room M303

Monday, November 14, 12:15 p.m. - 1:30 p.m.

Tuesday, November 15

Education Committee Meeting

Marriott - Room M108

Tuesday, November 15, 7 a.m. - 8 a.m.

Clinical Group (ACCTMTH) Past Presidents Meeting

Hilton - Room 205

Tuesday, November 15, 7 a.m. - 8 a.m.

AJTMH Editorial Board Meeting

Marriott - Room M202

Tuesday, November 15, 7 a.m. - 8 a.m.

Shope Fellowship Committee Meeting

Hilton - Room 208

Tuesday, November 15, 7 a.m. - 8 a.m.

CTropMed® Exam Executive Committee Meeting

Marriott - Room M108

Tuesday, November 15, 12:15 p.m. - 1:30 p.m.

ASTMH Council, Subgroup and Committee Meetings

Wednesday, November 16

Scientific Program Committee Meeting

Marriott - Room L401/L402/L403

Wednesday, November 16, 7 a.m. - 8 a.m.

ASTMH Past Presidents Meeting

Marriott - Room M101

Wednesday, November 16, 7 a.m. - 8 a.m.

Diploma Course Certification Committee Meeting

Marriott - Room M108

Wednesday, November 16, 7 a.m. - 8 a.m.

Burroughs Wellcome Fund/ASTMH Fellowship Committee Meeting

Marriott - Room M302

Wednesday, November 16, 8 a.m. - 10 a.m.

CTropMed® Exam Committee Meeting

Marriott - Room M301

Wednesday, November 16, 12:15 p.m. - 1:30 p.m.

Membership Committee Meeting

Marriott - Room M108

Wednesday, November 16, 12:15 p.m. - 1:30 p.m.

Thursday, November 17

ASTMH Council Meeting

Marriott - Room A708

Thursday, November 17, 7:30 a.m. - 9:30 a.m.

Related Organization Meetings (at press time)

Friday, November 11

Johns Hopkins Malaria Research Institute - Malawi and Southern Africa ICEMR Scientific Advisory Group Meeting

Marriott - Room M202

Friday, November 11, 8 a.m. - 5 p.m.

Jhpiego/MCSP Malaria Team Retreat Meeting

Marriott - Room L405

Friday, November 11, 8:30 a.m. - 5 p.m.

Saturday, November 12

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M103

Saturday, November 12, 7 a.m. - 4 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M106/M107

Saturday, November 12, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M201

Saturday, November 12, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M303

Saturday, November 12, 7 a.m. - 7 p.m.

University of California, Davis - P01 Iquitos Meeting

Marriott - Room M302

Saturday, November 12, 8 a.m. - 5 p.m.

Johns Hopkins Malaria Research Institute - Malawi and Southern Africa ICEMR Scientific Advisory Group Meeting

Marriott - Room M202

Saturday, November 12, 8 a.m. - 5 p.m.

Jhpiego/MCSP Malaria Team Retreat Meeting

Marriott - Room M108

Saturday, November 12, 9 a.m. - 5 p.m.

Health & Development International Meeting

Marriott - Room L405

Saturday, November 12, 9 a.m. - 5 p.m.

Sunday, November 13

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M106/M107

Sunday, November 13, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L506

Sunday, November 13, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L507

Sunday, November 13, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L508

Sunday, November 13, 7 a.m. - 7 p.m.

Clinton Health Access Initiative - Malaria Mapping and Mobility Meeting

Hilton - Room 208

Sunday, November 13, 8 a.m. - 5 p.m.

Meridian Bioscience

Marriott - Room L404

Sunday, November 13, 8 a.m. - 8 p.m.

Novartis - Malaria Initiative

Marriott - Room L504

Sunday, November 13, 8 a.m. - 8 p.m.

Population Services International Meeting Room

Hilton - Room 209

Sunday, November 13, 8 a.m. - 8 p.m.

Malaria Eradication Scientific Alliance (MESA) Meeting

Hilton - Room 407

Sunday, November 13, 8 a.m. - 8 p.m.

Sustainable Sciences Institute - Dengue Immune Correlates P01 Annual Meeting

Hilton - Room 214

Sunday, November 13, 8:30 a.m. - 4 p.m.

Malaria Branch, U.S. Centers for Disease Control and Prevention - CDC-PMI Staff Management and Administration Meeting

Marriott - Room M301

Sunday, November 13, 9 a.m. - 4 p.m.

Related Organization Meetings (at press time)

University of Rhode Island - DHF Project Investigators Meeting

Hilton - Room 211

Sunday, November 13, 9 a.m. - 5 p.m.

Health & Development International Meeting

Hilton - Room 409

Sunday, November 13, 9 a.m. - 5 p.m.

World Health Organization/Global Malaria Program: Implications of Insecticide Resistance S Meeting

Hilton - Room 410

Sunday, November 13, 9 a.m. - 5 p.m.

International Society of Travel Medicine - GeoSentinel Mid-Year Meeting

Marriott - Room M202

Sunday, November 13, 9 a.m. - 5 p.m.

University Hospital Bonn - Take Off Meeting

Hilton - Room 408

Sunday, November 13, 10 a.m. - 2 p.m.

Emory Global Health Institute - SAPORT Advisory Panel and Investigators Meeting

Hilton - Room 203

Sunday, November 13, Noon - 5 p.m.

PATH - Diarrhea Innovations Group Meeting

Hilton - Room 201

Sunday, November 13, 1 p.m. - 5 p.m.

Washington University School of Medicine - DOLF Investigator Meeting

Hilton - Room 401/402

Sunday, November 13, 2 p.m. - 5:30 p.m.

London School of Hygiene & Tropical Medicine Meeting

Marriott - Room L403

Sunday, November 13, 2 p.m. - 6 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L508

Monday, November 14, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M106/M107

Monday, November 14, 7 a.m. - 7 p.m.

Harvard University - HarvardX Recording Sessions

Marriott - Parlor 9th Floor

Monday, November 14, 8 a.m. - 6 p.m.

PATH Malaria Vaccine Initiative - PATH MVI Side Meeting

Hilton - Room 213

Monday, November 14, 8 a.m. - 7 p.m.

PATH Malaria Vaccine Initiative - PATH MVI Side Meeting

Hilton - Room 214

Monday, November 14, 8 a.m. - 7 p.m.

IVCC Meeting

Hilton - Room 410

Monday, November 14, 8 a.m. - 6 p.m.

Population Services International Meeting Room

Hilton - Room 209

Monday, November 14, 8 a.m. - 8 p.m.

Malaria Eradication Scientific Alliance (MESA) Meeting

Hilton - Room 407

Monday, November 14, 8 a.m. - 8 p.m.

Meridian Bioscience

Marriott - Room L404

Monday, November 14, 8 a.m. - 8 p.m.

Novartis - Malaria Initiative

Marriott - Room L504

Monday, November 14, 8 a.m. - 8 p.m.

Infectious Diseases Data Observatory (IDDO)/WorldWide Antimalarial Resistance Network (WWARN) Stakeholder Meeting

Marriott - Room A702

Monday, November 14, 8 a.m. - 8 p.m.

Global Health Strategies Meeting

Hilton - Room 211

Monday, November 14, 9 a.m. - 5 p.m.

JHUCCP - ITN Durability Monitoring Investigators Meeting

Hilton - Room 408

Monday, November 14, Noon - 2 p.m.

Monday, November 14

ClinicalRM - Private Meetings

Hilton - Room 405

Monday, November 14, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L506

Monday, November 14, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L507

Monday, November 14, 7 a.m. - 7 p.m.

Related Organization Meetings (at press time)

DNDi - DNDi/USAID GDA Update Meeting

Hilton - Room 409

Monday, November 14, Noon - 2 p.m.

Public Library of Science - PLOS NTDs Editorial Board Summit Meeting

Marriott - Room M101

Monday, November 14, 1 p.m. - 5 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L402

Monday, November 14, 6 p.m. - 8:30 p.m.

Bill & Melinda Gates Foundation Grantee and Partner Reception

Marriott - Atrium B

Monday, November 14, 7 p.m. - 10 p.m.

University of Sciences, Techniques and Technologies of Bamako - USTTB-NIH Annual Meeting

Marriott - Room A701

Monday, November 14, 7:30 p.m. - 10 p.m.

Tuesday, November 15

University of Virginia - UVA TAC Card Projects Meeting

Hilton - Room 404

Tuesday, November 15, 7 a.m. - 8 p.m.

Jhpiego Roll Back Malaria - Malaria in Pregnancy Working Group Meeting

Marriott - Room L401/L402

Tuesday, November 15, 7 a.m. - 8 a.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L506

Tuesday, November 15, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L507

Tuesday, November 15, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L508

Tuesday, November 15, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M106/M107

Tuesday, November 15, 7 a.m. - 7 p.m.

ClinicalIRM - Private Meetings

Hilton - Room 405

Tuesday, November 15, 7 a.m. - 7 p.m.

Harvard University - HarvardX Recording Sessions

Marriott - Parlor 9th Floor

Tuesday, November 15, 8 a.m. - Noon

IVCC Meeting

Hilton - Room 410

Tuesday, November 15, 8 a.m. - 6 p.m.

AWOL Consortium - Winter Meeting

Marriott - Room A708

Tuesday, November 15, 8 a.m. - 6 p.m.

PATH Malaria Vaccine Initiative - PATH MVI Side Meeting

Hilton - Room 213

Tuesday, November 15, 8 a.m. - 7 p.m.

PATH Malaria Vaccine Initiative - PATH MVI Side Meeting

Hilton - Room 214

Tuesday, November 15, 8 a.m. - 7 p.m.

Population Services International Meeting Room

Hilton - Room 209

Tuesday, November 15, 8 a.m. - 8 p.m.

Bayer - Private Stakeholder Meeting

Hilton - Room 210

Tuesday, November 15, 8 a.m. - 8 p.m.

Malaria Eradication Scientific Alliance (MESA) Meeting

Hilton - Room 407

Tuesday, November 15, 8 a.m. - 8 p.m.

Meridian Bioscience

Marriott - Room L404

Tuesday, November 15, 8 a.m. - 8 p.m.

Novartis - Malaria Initiative

Marriott - Room L504

Tuesday, November 15, 8 a.m. - 8 p.m.

Infectious Diseases Data Observatory (IDDO)/WorldWide Antimalarial Resistance Network (WWARN) Stakeholder Meeting

Marriott - Room A702

Tuesday, November 15, 8 a.m. - 8 p.m.

Coalition against Typhoid - Typhoid, Paratyphoid and Invasive Non-Typhoidal *Salmonella*: A Time for Action Meeting

Hilton - Room 205

Tuesday, November 15, 4 p.m. - 6 p.m.

Related Organization Meetings (at press time)

ClinicalIRM - Infectious Disease Biobanking: A Global Necessity to Accelerate Vaccine and Therapeutic Development across the Equator Meeting

Hilton - Room 201

Tuesday, November 15, 7 p.m. - 9 p.m.

FHI 360 - Partnering for Impact Meeting

Hilton - Room 401/402

Tuesday, November 15, 7 p.m. - 9 p.m.

Harvard University and Johns Hopkins Alumni Reception

Hilton - Point of View Lounge

Tuesday, November 15, 7:15 p.m. - 8:45 p.m.

University of Notre Dame - Eck Institute for Global Health

Marriott - Room L401/L402

Tuesday, November 15, 7:30 p.m. - 10 p.m.

Population Services International ACTwatch/PSI Reception Meeting

Marriott - Room A701

Tuesday, November 15, 7:15 p.m. - 10 p.m.

Wednesday, November 16

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M106/M107

Wednesday, November 16, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L506

Wednesday, November 16, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L507

Wednesday, November 16, 7 a.m. - 7 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L508

Wednesday, November 16, 7 a.m. - 7 p.m.

ClinicalIRM - Private Meetings

Hilton - Room 405

Wednesday, November 16, 7 a.m. - 7 p.m.

PATH Malaria Vaccine Initiative - PATH MVI Side Meeting

Hilton - Room 213

Wednesday, November 16, 8 a.m. - 7 p.m.

PATH Malaria Vaccine Initiative - PATH MVI Side Meeting

Hilton - Room 214

Wednesday, November 16, 8 a.m. - 7 p.m.

IVCC Meeting

Hilton - Room 410

Wednesday, November 16, 8 a.m. - 6 p.m.

Malaria Eradication Scientific Alliance (MESA) Meeting

Hilton - Room 407

Wednesday, November 16, 8 a.m. - 8 p.m.

Meridian Bioscience

Marriott - Room L404

Wednesday, November 16, 8 a.m. - 8 p.m.

The Walter and Eliza Hall Institute of Medical Research - Project Meeting

Marriott - Room L502

Wednesday, November 16, 8 a.m. - 8 p.m.

Novartis - Malaria Initiative

Marriott - Room L504

Wednesday, November 16, 8 a.m. - 8 p.m.

Infectious Diseases Data Observatory (IDDO)/WorldWide Antimalarial Resistance Network (WWARN) Stakeholder Meeting

Marriott - Room A702

Wednesday, November 16, 8 a.m. - 8 p.m.

Population Services International Meeting Room

Hilton - Room 209

Wednesday, November 16, 8 a.m. - 8 p.m.

London School of Hygiene & Tropical Medicine - SMC General Meeting

Hilton - Room 205

Wednesday, November 16, 1 p.m. - 6 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L402

Wednesday, November 16, 6 p.m. - 8:30 p.m.

Thursday, November 17

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M106/M107

Thursday, November 17, 7 a.m. - 5 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L507

Thursday, November 17, 7 a.m. - 5 p.m.

Related Organization Meetings (at press time)

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L508

Thursday, November 17, 7 a.m. - 5 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L506

Thursday, November 17, 7 a.m. - 5 p.m.

UCSD - Peru/Brazil ICEMR Scientific Advisory Group Annual Meeting

Marriott - Room L403

Thursday, November 17, 7:30 a.m. - 2 p.m.

Meridian Bioscience

Marriott - Room L404

Thursday, November 17, 8 a.m. - 1 p.m.

Novartis - Malaria Initiative

Marriott - Room L504

Thursday, November 17, 8 a.m. - 1 p.m.

Infectious Diseases Data Observatory (IDDO)/WorldWide Antimalarial Resistance Network (WWARN) Stakeholder Meetings

Marriott - Room A702

Thursday, November 17, 8 a.m. - 1 p.m.

IVCC Meeting

Hilton - Room 410

Thursday, November 17, 8 a.m. - 6 p.m.

International Vaccine Institute - GDAC CMC Meeting

Marriott - Room L502

Thursday, November 17, 9 a.m. - 1 p.m.

University of California, San Francisco - PRISM-SAG Meeting

Hilton - Room 209

Thursday, November 17, Noon - 6 p.m.

RTI International - ZIP Study Investigator Meeting

Marriott - Room M303

Thursday, November 17, 1 p.m. - 5 p.m.

SIGHTM - Sanaria Institute for Global Health and Tropical Medicine - I-PfSPZ Consortium Meeting

Hilton - Room 210/211

Thursday, November 17, 1 p.m. - 6 p.m.

Friday, November 18

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room M106/M107

Friday, November 18, 7 a.m. - 5 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L504/505

Friday, November 18, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L506/L507

Friday, November 18, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Marriott - Room L508

Friday, November 18, 8 a.m. - 8 p.m.

SIGHTM - Sanaria Institute for Global Health and Tropical Medicine - I-PfSPZ Consortium Meeting

Marriott - Room M104

Friday, November 18, 9 a.m. - 5:30 p.m.

Exhibit Hall Floor Plan

Exhibit Hall Floor Plan

Exhibitors/
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Abt Associates

Booth 110

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Email: yuliya_vartanova@abtassoc.com
Website: www.abtassociates.com

Abt Associates is a mission-driven, global leader in research, evaluation and implementing programs in the fields of health, social and environmental policy, and international development. Known for its rigorous approach to solving complex challenges, Abt Associates is regularly ranked as one of the top 20 global research firms and was named one of the 40 international development innovators. The company has offices in the U.S., Australia and the U.K., and program offices in more than 40 countries.

Access Bio, Inc.

Booth 622

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Access Bio is dedicated to the prevention and early diagnosis of infectious diseases through research, development, and manufacturing of in vitro rapid diagnostic tests, biosensor, and molecular diagnostic products. Particularly, early and accurate diagnosis is a key to effective treatment of patients. Our core in vitro diagnostic technology includes immunochemical, biochemical and molecular products. Access Bio strives to establish a foundation for wellbeing of all people.

ACE Research

Booth 511

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ACE Research is a Pan-Africa full service CRO specializing in early-to-late stage clinical trial services for development of vaccines, drugs, diagnostics, devices, and global health systems innovations. We promote a one-of-a-kind synergy, bringing together government bodies, NGOs, academic research institutions, pharmaceutical and medical device companies, and international scientific leadership, all of whom share a common mission in fighting global disease. We offer proactive and flexible CRO solutions including feasibility studies and protocol development, site selection, patient recruitment and retention, regulatory and EC submission,

clinical trial monitoring, project management, GCP training, staff augmentation, clinical supplies and material transfer management, and translation.

ACS Publications

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Booth 427

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ACS Infectious Diseases is the first journal to highlight chemistry and its role in the multidisciplinary and collaborative field of infectious disease research. With editors well-versed in both chemistry and the biology on infectious diseases, this journal published by ACS Publications aims to bridge the gap between these two disciplines. ACS Infectious Diseases welcomes submissions of articles with a balance of chemistry and biology, and encourages discussions centered in specific pathogen- and disease-related issues.

Advanced Cell Diagnostics

Booth 219

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Newark, CA 94560 USA
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Altona Diagnostics USA, Inc.

Booth 422

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Altona Diagnostics USA, Inc. is a San Francisco, CA based company with headquarters in Hamburg, Germany. The company focuses on the sales and technical support of real-time PCR based reagents for the detection of pathogen specific DNA/RNA, developed and manufactured by their scientists in Hamburg.

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Antigen Discovery, Inc.

Booth 326

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Antigen Discovery, Inc. provides proteomic immunoprofiling services that streamline biomarker discovery. Scientists use our novel technology to study causes of disease, potential new therapies, vaccines, diagnostics, and drugs. Diseases currently available on our protein microarray platform include babesiosis, brucellosis, Burkitt's lymphoma/EBV, chikungunya, chlamydia, dengue, HIV, Lyme, malaria, melioidosis (*Burkholderia pseudomallei*), MRSA (*Staphylococcus aureus*), onchocerciasis (river blindness), pneumonia (*Streptococcus pneumoniae*), Salmonella, Shigellosis and *E. coli*, tuberculosis, tularemia, Vaccinia, West Nile, Yellow fever, Zika and human autoimmunity.

Aquila Diagnostic Systems Inc.

Booth 409

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Website: www.aquiladiagnostics.com

Point of Care hydrogel PCR (molecular) diagnostic system for malaria diagnosis and surveillance. Low cost instrument and disposables. 16 tests per run in 1.5 hours. No sample preparation/DNA extraction step.

ARCTEC

Booth 419

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ARCTEC is a world leading independent testing centre for arthropod pest control technologies. Our services include development and evaluation of insecticides, repellents for human and veterinary use, after bite treatments and head lice treatment products. We offer unique access to internationally renowned scientists and laboratory facilities, including field sites in Africa, South East Asia, The Americas and Europe. Our experts also offer bespoke outsourcing of entomologists for research projects, consultancy, training, monitoring and school education.

Barcelona Institute for Global Health (ISGlobal)

Booth 320

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The Barcelona Institute for Global Health (ISGlobal) is a public-private sector alliance to address challenges in global health. It works through a value chain of scientific research, knowledge translation and innovation, policy and global development, and a rigorous academic program for professionals from diverse fields.

The Malaria Eradication Scientific Alliance (MESA) advances an evidence-based approach to eradication, providing knowledge management tools to expand the impact of the evidence base and accelerating relevant research. The MESA Secretariat is hosted by ISGlobal.

Bayer

Booth 310

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Bayer CropScience (Environmental Science) is a research and development focused organization with a history of involvement in vector control spanning more than 60 years. We develop and supply a range of solutions for various vector control interventions and have active development projects primarily focused on addressing challenges associated with insecticide resistance. We welcome approaches to our exhibit from researchers and other individuals with common interests to ours.

BEI Resources

Booth 423

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BEI Resources, funded by NIAID, is the leading source for high-quality cultures, reagents, and arthropod vectors for studying emerging and tropical diseases, including malaria, zika, dengue, chikungunya, and tuberculosis, among other parasitic, viral, and bacterial diseases. Explore the benefits we offer at www.beiresources.org, and let us serve as a catalyst for your research efforts worldwide. We'll take care of the details while you focus on your research.

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Bill & Melinda Gates Foundation

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Website: www.gatesfoundation.org

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BioMed Central

Booth 124

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Burroughs Wellcome Fund

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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.

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Carramore International Ltd

Booth 309

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Centre for Tropical Medicine and Global Health, University of Oxford

Booth 225/227

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The Centre for Tropical Medicine and Global Health is a world-leading Centre within the Nuffield Department of Clinical Medicine, University of Oxford. The Centre is comprised of research groups who are permanently based in Africa and Asia as well as in Oxford, UK. Our research ranges from clinical studies to behavioural sciences, with capacity building integral to all of our activities. Find out more at <http://www.tropicalmedicine.ox.ac.uk>.

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ClinicalRM Booth 206

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Consortium for Health Action Booth 625

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Email: colin8994@gmail.com
Website: www.ConsortiumHA.org

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DCN Diagnostics, Inc. Booth 307

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Website: www.dcndx.com

DCN offers contract development of complete lateral flow, flow through and microfluidic assay systems. Our ISO 9001:2008 compliant development process ensures close integration of assay and device development pathways, successful manufacturing transfer and the best chance of commercial success for the product. We deliver the product, not just the parts.

Drugs for Neglected Diseases *initiative* (DNDi) Booth 418

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The Drugs for Neglected Diseases initiative (DNDi) is a patient-needs driven, not-for-profit research and development (R&D) organization discovering and developing safe, effective, and affordable medicines for neglected diseases that afflict millions of the world's poorest people. DNDi focuses on developing new treatments for the most neglected patients suffering from little-known, often fatal diseases including human African trypanosomiasis (sleeping sickness), leishmaniasis, Chagas disease, filaria, mycetoma, pediatric HIV, and hepatitis C.

eLife Sciences Publications Ltd Booth 507

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EuPathDB - University of Pennsylvania/University of Georgia

Booth 513

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NIH/NIAID funded Bioinformatics Resource Centers consist of five on-line databases that provide data, analysis tools and services to infectious disease pathogen researchers. Each center specializes in different groups of pathogens: The Eukaryotic Pathogen Database (www.EuPathDB.org) specializes in eukaryotic pathogens, VectorBase (www.vectorbase.org) covers invertebrate vectors of human pathogens, ViPR (www.viprbrc.org) encompasses human

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viral pathogens, IRD (www.fludb.org) focuses on influenza virus, and PATRIC (www.patricbrc.org) supports bacteria. Each research center provides services to analyze and query functional data from each of the maintained organisms. Representatives will be available to answer questions and help with queries.

FHI 360 Booth 719

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FHI 360 is a nonprofit human development organization dedicated to improving lives in lasting ways by advancing integrated, locally driven solutions. Our staff includes experts in health, education, nutrition, environment, economic development, civil society, gender, youth, research, technology, communication and social marketing — creating a unique mix of capabilities to address today's interrelated development challenges. FHI 360 serves more than 70 countries and all U.S. states and territories.

GenArraytion, Inc. Booth 207

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GenArraytion, Inc. is dedicated to the development and commercialization of multiplexed molecular assays for infectious diseases, environmental and epidemiological applications, veterinary and biodefense markets. GenArraytion MultiFLEX™ Bioassays improve infection detection, prevention, response and treatment. GenArraytion's MultiFLEX assays are designed for both the Luminex magnetic beaded platform as well as real-time instruments. Existing assay panels include mosquito and tick-borne pathogens. Targets include plasmodium species, Zika, chikungunya and all four Dengue serotypes. Custom configurations are available.

Genetic Signatures

Booth 318

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Email: maicher@geneticsignatures.com
Website: www.geneticsignatures.com
Genetic Signatures is transforming infectious disease detection with novel, rapid, multiplex real-time PCR technology.

Genetic Signatures provides research kits and analyte specific reagents for the development of multiplex, real-time PCR assays for pathogen detection. These kits and reagents utilize Genetic Signatures' patented 3base™ technology that improves the efficiency of multiplex real-time PCR and is compatible with existing laboratory instrumentation. Our universal sample preparation technology allows for uniform nucleic acid isolation with reduced contamination risk, and can be automated via commonly available extraction and liquid handling platforms.

Global Health Fellows Program II

Booth 523

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Through the Global Health Fellows Program (GHFP) II, USAID is strengthening the GH workforce by engaging adaptable and resilient individuals with unique skills, experiences and backgrounds, in order to meet the challenges that arise in global health. GHFP-II offers multiple entry points into the field through its fellowships, internships, and partner opportunities.

Global Health NOW, Johns Hopkins Bloomberg School of Public Health

Booth 411

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Global Health Service Partnership

Booth 221

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Washington, DC 20526 USA

Phone: +1- 202-692-2250

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Website: www.peacecorps.gov/globalhealth

The Global Health Service Partnership (GHSP) helps address critical shortages of health care professionals globally by sending physicians and nurses to work alongside local medical and nursing faculty for 12 months to build institutional capacity and help strengthen the quality of medical and nursing education. GHSP Volunteers serve in Liberia, Malawi, Swaziland (nurse openings only), Tanzania, and Uganda.

The Henry M. Jackson Foundation for Advancement of Military Medicine

Booth 407

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The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. is a private, not-for-profit organization authorized by Congress to support medical research and education at the Uniformed Services University and throughout the military community. Our workforce of 2,450 provides scientific and research services to medical researchers worldwide.

IAMAT – International Association for Medical Assistance to Travellers

SUPPORTER

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Email: info@iamat.org

Website: www.iamat.org

IAMAT's mission is to make the world a healthier place to travel. As an advocate for travelers' health since 1960, IAMAT protects the well-being of travelers with up-to-date and impartial health information, and an international network of English-speaking doctors. The non-profit organization also awards travel medicine scholarships to enhance healthcare standards in clinics and hospitals abroad. Since 1990, IAMAT has sponsored the annual ASTMH Vincenzo Marcolongo Memorial Lecture in honor of IAMAT's founder, a specialist in tropical medicine who dedicated his life to the medical needs of travelers.

ICF

Booth 313

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ICF works at the forefront of data collection, use, and analysis to support public health policies and programs. ICF is part of the MEASURE Evaluation consortium, which provides technical leadership through collaboration at all levels to advance global health monitoring and evaluation. ICF also implements the Demographic and Health Surveys (DHS) Program, which has provided technical assistance to over 300 surveys in 90 countries, advancing understanding of health and population trends.

Infectious Diseases Society of America (IDSA) and IDWeek

Booth 311

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Email: djohnston@idsociety.org

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The Infectious Diseases Society of America (IDSA) represents over 10,000 physicians, scientists and other health care professionals from nearly 100 countries. IDSA publishes JID, CID, and the open access journal, OFID. IDSA also issues clinical practice guidelines, advocates for attention to the problem of antibiotic resistance, and promotes evidence-based U.S. action on global HIV and TB. IDSA partners with SHEA, HIVMA, PIDS to organize IDWeek (www.idweek.org), the premier international meeting in infectious diseases. www.idweek.org

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INMED - Institute for International Medicine

Booth 410

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Institute for Health Metrics & Evaluation

Booth 424

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The Institute for Health Metrics and Evaluation (IHME) is an independent global health research center at the University of Washington that provides rigorous and comparable measurement of the world's most important health problems and evaluates the strategies used to address them. IHME makes this information freely available so that policymakers have the evidence they need to make informed decisions about how to allocate resources to best improve population health.

International Society of Travel Medicine

Booth 213

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The ISTM, with more than 3,500 members in close to 100 countries, is the largest organization of professionals dedicated to the advancement of the specialty of travel medicine. Members include physicians, nurses and other health professionals from academia, government and the private sector. In cooperation with health care providers, academic centers, the travel industry and the media, ISTM advocates and facilitates education, service, and research activities in the field of travel medicine.

IVCC

Booth 306/308

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IVCC creates solutions and develops products focused on insects; to control, eliminate and eradicate vector borne disease.

London School of Hygiene & Tropical Medicine

Booth 312

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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, with 4,000 students and more than 1,000 staff working in over 100 countries. The School is highly rated in various university league tables. It was named the world's leading research-focused graduate school by Times Higher Education, and third in the world for social science and public health in the US News Best Global Universities Ranking. The School was also recognised for the impact of its research and was ranked second in the UK government's Research Excellence Framework and top in Europe for impact by the Leiden Ranking. www.lshtm.ac.uk

Luminex Corporation

Booth 118

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Luminex is committed to creating innovative, breakthrough solutions to help our customers improve health and advance science worldwide. We serve the needs of our customers in diverse markets including clinical diagnostics, pharmaceutical drug discovery, biomedical research, including genomic and proteomic research, personalized medicine, biodefense research and food safety. Our goal is to transform global healthcare and life science research through the development, manufacturing, and marketing of proprietary instruments and assays that deliver cost-effective, rapid results to clinicians and researchers.

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Manhiça Health Research Center

Booth 322

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Manta Ray Media

Booth 212

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Medical Care Development International

Booth 620

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Medical School for International Health

Booth 208

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Meridian Bioscience, Inc.

Booth 412

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MMDP Project/Helen Keller International

Booth 420

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The USAID MMDP Project is a \$35 million project funded by the United States Agency for International Development. The project is led by Helen Keller International and aims to help countries reach their disease elimination goals for trachoma and lymphatic filariasis through support of the planning, implementation, and monitoring of the scale up of trachomatous trichiasis surgery, hydrocele surgery, and lymphedema management.

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New England Biolabs, Inc.

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Ipswich, MA 01938 USA
Phone: +1-978-927-5054
Website: www.neb.com

Established in the mid 1970's, New England Biolabs, Inc. (NEB) is the industry leader in the discovery and production of enzymes for molecular biology applications and now offers the largest selection of recombinant and native enzymes for genomic research. NEB continues to expand its product offerings into areas related to PCR, gene expression, sample preparation for next generation sequencing, synthetic biology, glycobiology, genome editing epigenetics and RNA analysis. Additionally, NEB is focused on strengthening alliances that enable new technologies to reach key market sectors, including molecular diagnostics development.

NIH Schistosomiasis Resource Center at the Biomedical Research Institute

Booth 421

Contact: Margaret Mentink-Kane, Manager, NIH SRC
9410 Key West Ave.
Rockville, MD 20850 USA
Phone: +1-301-881-3300
Email: mmentinkkane@afbr-bri.com
Website: www.afbr-bri.com

For over 40 years, the National Institute of Allergy and Infectious Disease of the National Institutes of Health has supported the Schistosomiasis Resource Center (SRC), through which investigators can obtain schistosome life stages, free of charge. The SRC is housed at the Biomedical Research Institute. Through this contract, the three major schistosome species affecting humans (*Schistosoma mansoni*, *S. haematobium*, and *S. japonicum*) can be obtained either in their specific snail hosts or in infected mammals.

NIH-NIAID Filariasis Research Reagent Resource Center (FR3)

Booth 425

Contact: Corine McCarthy, Lab Manager
800 Algoma Blvd.
Department of Biology and Microbiology
Oshkosh, WI 54901 USA
Phone: +1-920-424-0438
Email: mccarhc@uwosh.edu
Website: www.filariasiscenter.org

The Filariasis Research Reagent Resource Center (FR3) has provided a central resource of filariasis reagents, protocols and technical support for the international NTD research community since 1969. Supported by the National Institute of Health (NIH) and National Institute of Allergy and Infectious Diseases (NIAID), the FR3 acquires and distributes parasites, vectors, and molecular and serological reagents. The FR3 is based at the University of Georgia College of Veterinary

Medicine. The University of Georgia subcontracts with Smith College for molecular resource development and production and with University of Wisconsin-Oshkosh to maintain the filarial parasite *Acanthocheilonema vitae*.

NO MO Foundation

Booth 211

Contact: Sam Darling, President
114 The Alameda
San Anselmo, CA 94960 USA
Phone: +1-250-538-0200
Email: darling@shaw.ca
Website: delcielo.net
Non profit distribution of a high-efficacy repellent to disease-endemic countries of Africa.

Omega Diagnostics Ltd

Booth 223

Contact: John Bannister
Omega House, Hillfoots Business Village
Alva, Clackmannanshire FK12 5DQ
Scotland, United Kingdom
Phone: +44 (0) 1259 763030
Email: odl@omegadiagnostics.co.uk
Website: www.omegadiagnostics.co.uk

Omega Diagnostics manufacture and provide high quality IVD products for use in clinical diagnosis to over 100 countries worldwide. We will be showcasing the latest VISITECT® CD4 Point-of-Care test, an affordable and easy-to-use device that includes digital connectivity via smartphone App allowing data recording and analysis, a new range of malaria RDTs developed according to WHO guidelines and other infectious disease tests including a wide range of options for syphilis diagnosis.

Oxford University Press

Booth 122

Contact: Michelle Kelly, Marketing
198 Madison Ave.
New York, NY 10016 USA
Phone: +1-800-451-7556
Email: custserv.us@oup.com
Website: global.oup.com

Oxford University Press publishes some of most respected and prestigious books and journals in the world. Visit our booth or www.oup.com for more information.

Exhibitor, Sponsor and Supporter Directory (at press time)

PanTheryx, Inc.

Booth 126

Contact: Mark Grabowsky, Vice President of Public Innovations

5480 Valmont Road, Suite 325

Boulder, CO 80301 USA

Phone: +1-202-358-6308

Email: mgrabowsky@pantheryx.com

Website: www.pantheryx.com

PanTheryx's diarrhea relief product is not a drug or antibiotic, it's made from naturally derived ingredients that rapidly restore normal function to the intestinal tract. It's safe for children as young as 1, and was selected in Reimagining Global Health as 1 of 30 leading healthcare innovations with great promise to transform global health by 2030. This recognition was led by PATH and supported by the Bill & Melinda Gates Foundation and USAID, among others.

Population Services International/ACTwatch

Booth 413

Contact: Tarryn Haslam, Deputy Director-Malaria and Child Survival

1120 19th St. NW

Washington, DC 20036 USA

Phone: +1-202-572-4010

Email: thaslam@psi.org

Website: www.psi.org

PSI is a global non-profit organization dedicated to improving the health of people in the developing world by focusing on serious challenges like a lack of family planning, HIV and AIDS, barriers to maternal health, and the greatest threats to children under five, including malaria, diarrhea, pneumonia and malnutrition. ACTwatch is a multi-country research project implemented by PSI that is designed to provide timely, relevant and high quality antimalarial market evidence to help inform malaria control and elimination strategies.

Precision Antibody

Booth 524

Website: www.precisionantibody.com

Precision Antibody is recognized within the biotechnology industry for our rapid antibody development (40-60 days), customer service, and ability to deliver application specific antibodies. Precision Antibody comprehensive antibody services include antigen production, antibody development, high-throughput screening, Octet & Biacore affinity analysis, large and small scale antibody production, and assay development.

Royal Society of Tropical Medicine and Hygiene

Booth 521

Contact: Tamar Ghosh

Northumberland House, 303-306 High Holborn

London, WC1V 7JZ United Kingdom

Phone: +0044 (0)20 7405 2628

Email: info@rstmh.org

Website: www.rstmh.org

RSTMH promotes and advances the study, control and prevention of disease in humans and other animals in the tropics and plays a leading role in increasing awareness throughout the world of tropical medicine and global health.

Through our international network of Fellows we facilitate training, education and exchange of information between clinicians, health-related scientists, nongovernmental development organisations and students across all disciplines in the fields of tropical medicine and global health.

RTI International

Booth 210

Contact: Ned Burns, Business Development Associate

3040 E Cornwallis Road

Durham, NC 27709 USA

Phone: +1-919-541-6000

Email: nburns@rti.org

Website: www.rti.org

As one of the world's leading research institutes, RTI International implements large-scale global health programs that focus on strengthening health systems, controlling and eliminating neglected tropical diseases, and supporting programs to combat HIV, malaria, and other infectious diseases. Drop by our booth to meet our experts, discuss global health challenges and opportunities, and win prizes.

Sanofi Pasteur **SPONSOR**

Contact:

Roman Chicz, Head, External Research and Development

1541 avenue Marcel Mérieuxérieux

Marcy l'Etoile, 69280 France

Email: roman.chicz@sanofipasteur.com

Website: www.sanofipasteur.com

Sanofi Pasteur is the vaccines division of Sanofi. We distribute more than 1 billion doses of vaccine per year, making it possible to vaccinate more than 500 million people across the globe. Our broad portfolio protects against infectious diseases such as: cholera, diphtheria, dengue, Haemophilus influenzae type b infections, hepatitis A, hepatitis B, influenza, Japanese encephalitis, measles, meningococcal infections, mumps, pertussis, pneumococcal infections, poliomyelitis, rabies, rubella, tatanus, tuberculosis, typhoid fever and yellow fever.

Exhibitor, Sponsor and Supporter Directory (at press time)

Shin Poong Pharmaceutical Co., Ltd.

Booth 406

Contact: Jangsik Shin, Pyramax Project Leader
161 Yeoksam-ro, Gangnam-gu
Seoul, 06246 South Korea
Phone: +82 2 2189 3468
Email: jsshin@shinpoong.co.kr
Website: www.shinpoong.co.kr

Since 2002, Shin Poong has developed PYRAMAX® in cooperation with Medicines for Malaria Venture. In 2012, PYRAMAX® became the first ACT to receive a positive scientific opinion from EMA under Article 58 for the treatment of both *P. falciparum* and *P. vivax* in children and adults over 20kg body weight. In 2015 PYRAMAX® is available in child-friendly granules for children from 5 to 20kg. Also, PYRAMAX® is referred in WHO's list of prequalified medicines.

Southeast Medical Books

Booth 509

Contact: Ralph Chiles, President
407 Peachtree Forest Terrace
Norcross, GA 30092 USA
Phone: +1-678-777-9078
Email: ralphchiles@gmail.com
Representing the worlds leading medical publishers.

Takeda Pharmaceuticals International AG

SPONSOR

Booth 218

Contact: Nigel Glover, Senior Manager-Global Congresses
Thurgauerstrasse 130
Zurich, 8152 Glattpark-Opfikon Switzerland
Phone: +44 7824 592266
Email: nigel.glover@takeda.com
Website: www.takeda.com

Takeda Pharmaceutical Company Limited is a global, research and development-driven pharmaceutical company committed to bringing better health and a brighter future to patients by translating science into life-changing medicines. Takeda focuses its R&D efforts on oncology, gastroenterology and central nervous system therapeutic areas plus vaccines. Takeda conducts R&D both internally and with partners to stay at the leading edge of innovation. New innovative products, especially in oncology and gastroenterology, as well as our presence in Emerging Markets, fuel the growth of Takeda. For more information, visit <http://www.takeda.com/news>.

TECHLAB, Inc.

SPONSOR

Booth 106/108

Contact: Donna T. Link, Director of Regulatory & Compliance
2001 Kraft Drive
Blacksburg, VA 24060 USA
Phone: +1-540-953-1664
Email: dlink@techlab.com
Website: www.techlab.com

TECHLAB has over 25 years of experience focused on the development and manufacturing of quality rapid non-invasive enteric in vitro diagnostics. Today the company continues to develop, manufacture and distribute intestinal diagnostics worldwide retaining an emphasis on science and collaboration with universities both international and domestic. Products are focused in the areas of intestinal inflammation, antibiotic-associated diarrhea and parasitology. Research continues on *C. difficile*, intestinal inflammation, Shiga toxin, and parasites including *Giardia*, *Cryptosporidium*, and *Entamoeba histolytica*.

The Special Programme for Research and Training in Tropical Diseases (TDR)

Booth 408

Contact: Jamie Guth, Communications Manager
20, avenue Appia
Geneva, 1211 Switzerland
Phone: +44 79 441 2289
Email: guthj@who.int
Website: www.who.int/tdr

The TDR display will provide information about current and upcoming grants, research support and news on infectious diseases of poverty. The TDR Global platform with more than 2500 experts will be launched at ASTMH. It's the perfect place to look for an expert or design a multi-disciplinary team. In addition, a new massive open online course (MOOC) on implementation research will be available for testing.

Time Research Limited

Booth 224

Contact: Lorraine Colley, Associate Director
Time House, 56b Crewys Road
London, NW2 2AD United Kingdom
Phone: +44 208 209 2020
Email: lorraine.colley@timeresearch.co.uk
Website: www.timeresearch.co.uk
Time Research is a market research company based in London, England.

We warmly invite delegats from around the world to participate in our questionnaire. One of our friendly interviewers will walk you through the survey and input your responses. Your views are very valuable and we hope to see you at our booth.

Exhibitor, Sponsor and Supporter Directory (at press time)

TwistDx

Booth 618

Contact: David Brooks, Business Development Manager
Babraham Research Campus
Cambridge, CB22 3AT United Kingdom
Phone: +44 1223 919 726
Email: d.brooks@twistdx.co.uk
Website: www.twistdx.co.uk

TwistDx designs and manufactures Recombinase Polymerase Amplification or RPA, a multiplexable isothermal DNA/RNA amplification and detection technology that works amazingly fast. RPA is a portable alternative to PCR and is ideally suited to point-of-use molecular assays for digital, microfluidics, agriculture, veterinary and biodefense applications.

University of Notre Dame's Eck Institute for Global Health

Booth 519

Contact: Sarah Craig, Communications Director
120 Brownson Hall
Notre Dame, IN 46556 USA
Phone: +1-574-631-2665
Email: craig.20@nd.edu
Website: <http://globalhealth.nd.edu/>

The University of Notre Dame's Eck Institute for Global Health is a university-wide enterprise that recognizes health as a fundamental human right and endeavors to promote research, training, and service to advance health standards for all people, especially people in low-and middle-income countries who are disproportionately impacted by preventable diseases. We support research for faculty, post docs, doctoral students, undergraduates in our member's labs, and our Master of Science in Global Health professional degree program.

University Research Co., LLC

Booth 324

Contact: Taylor Price, Senior Program Officer
7200 Wisconsin Ave., Suite 600
Bethesda, MD 20814 USA
Phone: +1-301-941-8477
Email: Tprice@urc.chs.com
Website: www.urc-chs.com

University Research Co., LLC (URC) is a global company dedicated to improving the quality of health care, social services, and health education in over 40 countries. We improve health and education systems by empowering communities to identify and implement locally appropriate solutions to critical problems. Specific technical areas include education; maternal, newborn, and child health; infectious diseases including HIV/AIDS, TB, and malaria; reproductive health and family planning; food and nutrition; mental health; and vulnerable children and families.

VectorBase

Booth 513

Contact: Gloria Giraldo-Calderon, VectorBase Scientific Liaison/
Outreach Manager
University of Notre Dame
315 Galvin Life Sciences Building
Notre Dame, IN 46556 USA
Phone: +1-574-631-8045
Email: info@vectorbase.org
Website: <https://www.vectorbase.org/>

NIH/NIAID funded Bioinformatics Resource Centers consist of five on-line databases that provide data, analysis tools and services to infectious disease pathogen researchers. Each center specializes in different groups of pathogens: The Eukaryotic Pathogen Database (www.EuPathDB.org) specializes in eukaryotic pathogens, VectorBase (www.vectorbase.org) covers invertebrate vectors of human pathogens, ViPR (www.viprbrc.org) encompasses human viral pathogens, IRD (www.fludb.org) focuses on influenza virus, and PATRIC (www.patricbrc.org) supports bacteria. Each research center provides services to analyze and query functional data from each of the maintained organisms. Representatives will be available to answer questions and help with queries.

Walter Reed Army Institute of Research (WRAIR)

Booth 525/527

Contact: Douglas Davis, Senior Administrative Officer
503 Robert Grant Ave.
Silver Spring, MD 20910 USA
Phone: +1-301-319-9544
Email: douglas.r.davis10.civ@mail.mil
Website: <http://wrair-www.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. Through its extensive array of capabilities the Institute develops countermeasures to infectious disease threats and conducts research that promotes psychological resilience, enhances neurological functioning, and improves operational readiness among our service members.

Exhibitor, Sponsor and Supporter Directory (at press time)

Zymo Research Corp.

Booth 120

Contact: Jessica Rathbun, Scientist

17062 Murphy Ave.

Irvine, CA 92614 USA

Phone: +1-949-679-1190

Email: jrathbun@zymoresearch.com

Website: www.zymoresearch.com

Since 1994, Zymo Research has been offering innovative, quality and easy-to-use tools for nucleic acid purification and Epigenetics research. Our innovative products and services simplify complex processes while at the same time improving results. All of our products are supported by unparalleled customer support. Zymo Research – Innovation. Quality. Simplicity.

DETAILED PROGRAM

Saturday, November 12

ASTMH CTropMed® Examination Registration

Marriott - Marquis Foyer

Saturday, November 12, 7 a.m. - 8 a.m.

ASTMH CTropMed® Examination

Marriott - Marquis C

Saturday, November 12, 8 a.m. - Noon

Pre-Meeting Course Registration

Marriott - Marquis Foyer

Saturday, November 12, 10 a.m. - 2 p.m.

ASTMH Council Meeting

Marriott - Marquis D

Saturday, November 12, Noon - 6 p.m.

Clinical (ACCTMTH) Pre-Meeting Course: Clinical Ultrasound in Resource-Limited Settings — From Basic to Advanced

Marriott - Imperial A and Imperial B

Saturday, November 12, 12:30 p.m. - 6 p.m.

Supported in part by GE Healthcare

This intensive 1.5-day workshop will combine hands-on ultrasound training with expert discussion of most of the common illnesses found in resource-limited settings that are amenable to evaluation by point-of-care ultrasound. The course is aimed at all skill levels, from those who have never touched an ultrasound to those who use it in their day-to-day practice. Participants will be provided with three separate hands-on scanning blocks throughout the 1.5-day course. Hands-on sessions will include evaluation of the liver, spleen, aorta, heart, lungs, lower extremity veins and eyes. There will also be a hands-on ultrasound-guided procedures workshop. Scanning sessions progress from basic to advanced, with lectures, panel discussions and case presentations covering the ultrasonographic characteristics of the common diseases seen in resource-limited settings. These include, but are not limited to: extrapulmonary tuberculosis, HIV/AIDS, echinococcus, schistosomiasis, filariasis, rheumatic valvular heart disease, cardiomyopathy and lung infections. All faculty have ultrasound expertise and significant experience in point-of-care ultrasound in resource-limited settings. Hands-on faculty-to-participant ratio will be 1:5 to ensure everyone has ample opportunity to practice hands-on scanning using live models.

CHAIR

Enrico Brunetti

University of Pavia, Pavia, Italy

Daniel Kaminstein

Medical College of Georgia, Augusta, GA, United States

Walter (Ted) Kuhn

Medical College of Georgia, Augusta, GA, United States

12:30 p.m.

INTRODUCTION TO ULTRASOUND AND COURSE LOGISTICS - HANDS-ON SCANNING

Walter (Ted) Kuhn

Medical College of Georgia, Augusta, GA, United States

12:45 p.m.

FAST (FOCUSED ASSESSMENT WITH SONOGRAPHY FOR TRAUMA) HANDS-ON SCANNING

Richard Gordon

Medical College of Georgia, Augusta, GA, United States

1:15 p.m.

RENAL - HANDS-ON SCANNING

Richard Gordon

Medical College of Georgia, Augusta, GA, United States

1:45 p.m.

LIVER - HANDS-ON SCANNING

Lee LaRavia

Medical College of Georgia, Augusta, GA, United States

2:15 p.m.

SPLEEN - HANDS-ON SCANNING

Lee LaRavia

Medical College of Georgia, Augusta, GA, United States

2:45 p.m.

COFFEE BREAK

3 p.m.

FASH (FOCUSED ASSESSMENT WITH SONOGRAPHY) FOR HIV-TB

Tom Heller

Kamuzu Central Hospital, Lilongwe, Malawi

3:30 p.m.

ECHINOCOCCUS

Enrico Brunetti

University of Pavia, Pavia, Italy

4 p.m.

SCHISTOSOMIASIS

Daniel Kaminstein

Medical College of Georgia, Augusta, GA, United States

4:30 p.m.

TROPICAL ECHOCARDIOGRAPHY

Matthew Lyon

Medical College of Georgia, Augusta, GA, United States

5 p.m.

ATTENDEE RECEPTION

FACILITATORS

Rebecca J. Etheridge

Medical College of Georgia, Augusta, GA, United States

Maria Teresa Giordani

San Bortolo Hospital, Vicenza, Italy

Claudia Wallrauch

Kamuzu Central Hospital, Lilongwe, Malawi

Sunday, November 13

Registration

Marriott - Marquis Foyer

Sunday, November 13, 7 a.m. - 6 p.m.

Clinical (ACCTMTH) Pre-Meeting Course: Clinical Ultrasound in Resource-Limited Settings — From Basic to Advanced

Marriott - Imperial A and Imperial B

Sunday, November 13, 7 a.m. - 5 p.m.

Supported in part by GE Healthcare

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CHAIR

Enrico Brunetti

University of Pavia, Pavia, Italy

Daniel Kaminstein

Medical College of Georgia, Augusta, GA, United States

Walter (Ted) Kuhn

Medical College of Georgia, Augusta, GA, United States

7 a.m.

NETWORKING BREAKFAST

7:45 a.m.

CARDIAC - HANDS-ON SCANNING

Matthew Lyon

Medical College of Georgia, Augusta, GA, United States

8:45 a.m.

ABDOMINAL VASCULATURE - HANDS-ON SCANNING

Jedidiah Ballard

Augusta University, Augusta, GA, United States

9:45 a.m.

COFFEE BREAK

10 a.m.

LIVER ABSCESS

Enrico Brunetti

University of Pavia, Pavia, Italy

10:30 a.m.

FILARIASIS

Francesca Tamarozzi

University of Pavia, Pavia, Italy

11 a.m.

CIRRHOSIS MADE SIMPLE

Tom Heller

Kamuzu Central Hospital, Lilongwe, Malawi

11:30 a.m.

TROPICAL ULTRASOUND RESEARCH

Francesca Tamarozzi

University of Pavia, Pavia, Italy

Noon

LUNCH ON YOUR OWN

1:30 p.m.

DVT AND PROCEDURE WORKSHOP

Eric Zevallos

Medical College of Georgia, Augusta, GA, United States

3 p.m.

BREAK

3:30 p.m.

ULTRASOUND LOGISTICS

Walter (Ted) Kuhn

Medical College of Georgia, Augusta, GA, United States

4 p.m.

CASES

Tom Heller

Kamuzu Central Hospital, Lilongwe, Malawi

Daniel Kaminstein

Medical College of Georgia, Augusta, GA, United States

4:30 p.m.

PANEL DISCUSSION

Enrico Brunetti

University of Pavia, Pavia, Italy

Tom Heller

Kamuzu Central Hospital, Lilongwe, Malawi

Daniel Kaminstein

Medical College of Georgia, Augusta, GA, United States

Walter (Ted) Kuhn

Medical College of Georgia, Augusta, GA, United States

5 p.m.

COURSE ADJOURNS

FACILITATORS

Rebecca J. Etheridge

Medical College of Georgia, Augusta, GA, United States

Maria Teresa Giordani

San Bortolo Hospital, Vicenza, Italy

Claudia Wallrauch

Kamuzu Central Hospital, Lilongwe, Malawi

Arbovirology (ACAV) and Medical Entomology (ACME) Pre-Meeting Course: Know Thine Enemy: Methods to Identify Mosquitoes and the Viruses They Carry

Marriott - A602

Sunday, November 13, 7:30 a.m. - 3:45 p.m.

In the wake of major outbreaks of arthropod-borne viruses in the Americas, the course organizers have joined forces and gathered expertise from the American Committee of Medical Entomology (ACME) and the American Committee on Arthropod-Borne Viruses (ACAV) to speak to the challenges of identifying the culprit vector and virus in a mosquito-borne disease epidemic. The course will review the process of vector incrimination, whereby the mosquito vector and viral etiologic agent are revealed. From the vector perspective, speakers will discuss methods for knowing thine enemy via arthropod identification, vector competence studies, targeted trapping informed by an understanding of vector biology and biogeography. From the virus perspective, faculty will discuss approaches to cast a broad net in order to identify and isolate a variety of arboviruses using classical and state-of-the-art culture and sequencing approaches, along with field-applicable rapid diagnostics for particular virus species of interest. During the course, participants will have opportunities to see live mosquito specimens and receive basic training in mosquito identification. Select participants will have an additional opportunity to visit the CDC and MR4 laboratories to experience a hands-on clinic in mosquito identification and to see how mosquito colonies are maintained and mosquitoes are manipulated for vector competence studies.

CHAIR

Lyric Bartholomay

University of Wisconsin Madison, Madison, WI, United States

Kathryn Hanley

New Mexico State University, Las Cruces, NM, United States

7:30 a.m.

LIGHT CONTINENTAL BREAKFAST

8 a.m.

COURSE INTRODUCTION - OVERVIEW OF THE COURSE

Lyric Bartholomay

University of Wisconsin Madison, Madison, WI, United States

Kathryn Hanley

New Mexico State University, Las Cruces, NM, United States

8:15 a.m.

MOSQUITO IDENTIFICATION

Richard Wilkerson

National Museum of Natural History, Suitland, MD, United States

8:45 a.m.

MAPPING AND TRACKING MOSQUITO BIONOMICS

Yvonne-Marie Linton

Walter Reed Biosystematics Unit, Silver Spring, MD, United States

9:15 a.m.

MOSQUITO ECOLOGY

Gonzalo Vazquez-Prokopec

Emory University, Atlanta, GA, United States

9:45 a.m.

COFFEE BREAK

10 a.m.

TARGETED TRAPPING

Scott Ritchie

James Cook University, Cairns, Australia

10:45 a.m.

VECTOR COMPETENCE

Laura D. Kramer

Wadsworth Center, Slingerlands, NY, United States

11:30 a.m.

LUNCH ON YOUR OWN

12:45 p.m.

CLASSICAL APPROACHES FOR IDENTIFICATION AND ISOLATION OF VIRUSES FROM MOSQUITO SAMPLES

Robert B. Tesh

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

1:15 p.m.

RAPID TESTS FOR IDENTIFICATION OF VIRUSES FROM MOSQUITO SAMPLES

Michael Turell

Frederick, MD, United States

1:45 p.m.

NUCLEIC ACID DETECTION FOR IDENTIFICATION OF VIRUSES IN MOSQUITO SAMPLES

Lark Coffey

University of California Davis, Davis, CA, United States

2:15 p.m.

BREAK

2:30 p.m.

NEXT-GEN SEQUENCING FOR IDENTIFICATION OF VIRUSES IN MOSQUITO SAMPLES

Mark Stenglein

Colorado State University, Fort Collins, CO, United States

3:15 p.m.

PANEL DISCUSSION: WE HAVE MET THE ENEMY, AND THEY ARE ZIKA VIRUS

3:45 p.m.

COURSE ADJOURNS

Parasitology (ACMCIP) Pre-Meeting Course: Chemical Biology: A New Tool for Parasite Biology and Drug Development

Marriott - Room M103/M104/M105

Sunday, November 13, 7:30 a.m. - 4 p.m.

Supported with funding from ACS Infectious Diseases/ACS Publications

In recent years there has been a revolution in high-throughput screening and molecular techniques that have led to discovery of compounds with activity against parasites. These compounds drive biologic knowledge and drug development for parasites. The compounds, if their targets can be discovered, become molecular probes into biological processes of parasites and can be applied

throughout lifecycles to elucidate target function. In addition, many collaborations between academic and industry groups have arisen, generating promising compounds for drug development. This pre-meeting course will present processes that lead to the discovery of small molecules with antiparasite activity. The course will examine how targets of these compounds are elucidated, using chemical-genomic approaches and ligand-based approaches. Speakers will investigate how the molecular structure of compound targets are elucidated and how iterative co-crystallography can be used to improve the potency and general properties of compounds. Faculty will give examples of kinetoplastid and helminthic drug discovery programs and how industry-academic drug discovery interactions occur. The course will explore how pharmacokinetics and safety interact with drug discovery programs to enhance success. Finally, the course will examine recent examples of antiparasitic resistance and how those resistance mechanisms are characterized.

CHAIR

Kevin J. Esch

Zoetis, Kalamazoo, MI, United States

Wesley Van Voorhis

University of Washington, Seattle, WA, United States

7:30 a.m.

LIGHT CONTINENTAL BREAKFAST

PART 1: CHEMICAL BIOLOGY APPROACHES: FROM COMPOUND TO TARGET

8 a.m.

PHENOTYPIC SCREENS TO CHEMICAL-GENETIC APPROACHES TO TARGETS (MALARIA)

Elizabeth Ann Winzeler

University of California San Diego, La Jolla, CA, United States

8:45 a.m.

LIGAND APPROACHES TO LINK CHEMICALS TO TARGETS

Sonja Ghidelli-Disse

Cellzome - A GlaxoSmithKline Company, Heidelberg, Germany

9:30 a.m.

STRUCTURE-BASED DRUG DEVELOPMENT: RECENT EXAMPLES OF SUCCESSES IN MALARIA

David Matthews

University of Toronto, Toronto, ON, Canada

10:15 a.m.

COFFEE BREAK

PART 2: ANTIPARASITIC DRUG DEVELOPMENT

10:30 a.m.

KINETOPLASTID DRUG DEVELOPMENT

Frederick S. Buckner

University of Washington, Seattle, WA, United States

11:15 a.m.

HELMINTH DRUG DISCOVERY, USING MODEL ORGANISMS TO SCREEN FOR ANTHELMINTICS

Timothy G. Geary

McGill University, Ste-Anne-de-Bellevue, QC, Canada

Noon

LUNCH ON YOUR OWN

PART 3: FROM DISCOVERY TO PRODUCT

1:30 p.m.

ARTEMESININ RESISTANCE AND BEYOND IN MALARIA

David A. Fidock

Columbia University, New York, NY, United States

2:15 p.m.

INDUSTRY-ACADEMIC PARTNERSHIPS: THE TRES CANTOS/ GSK STORY

Elena Fernández Álvaro

GlaxoSmithKline, Tres Cantos, Madrid, Spain

3 p.m.

BREAK

3:15 p.m.

CUTTING-EDGE SAFETY - PRECLINICAL *IN VITRO* MODELS

John P. Wikswo

Vanderbilt University, Nashville, TN, United States

4 p.m.

COURSE ADJOURNS

Global Health (ACGH) Pre-Meeting Course: The Science of Disease Elimination

Marriott - Room A601

Sunday, November 13, 8 a.m. - 3:30 p.m.

Eradication of disease is the aspirational goal of global public health efforts, and yet only one infectious disease of humans – smallpox – has been eradicated to-date. There are ongoing efforts to eradicate poliomyelitis, dracunculiasis, yaws and malaria, and five more infectious diseases have been identified as potentially eradicable. Diseases that are potentially eradicable share a number of critical features, including the absence of a non-human reservoir or environmental amplification, availability of diagnostics, and an efficient and effective intervention. Additional factors such as financial support to implement interventions and political commitment are crucial to mount a successful eradication campaign. In recent years, health leaders have put forward the concept of disease elimination while calling upon scientists and policymakers to determine ways to achieve this noble aspiration. Global commitments to finance disease control programs worldwide have made this concept a tangible reality. Although these commitments are unprecedented in their amounts, they may still fall short in being able to reach the desired outcome unless progress can be demonstrated. Progress inspires continued support, because without continued support, elimination and - ultimately - eradication are not possible. Meanwhile, breakthroughs in program management, treatment, diagnostics, informatics, mapping, modelling and analysis to eliminate or eradicate diseases are notable. This course will focus on highlighting elimination topics, explaining their scientific theory and describing the implementation of elimination strategies and their evaluation to assess their utility in helping to drive transmission to zero and maintain it there. The course will also explore what is needed to develop successful partnerships

and how the science can assist in gaining support for policy and political will. Speakers will also present disease-specific topics that integrate the range of elimination science topics to demonstrate how the components of elimination science came together to help drive particular diseases to elimination or near-elimination, as well as successes and challenges from existing disease elimination and eradication programs.

COURSE ORGANIZER

Kim Lindblade
Centers for Disease Control and Prevention, Bangkok, Thailand

COURSE CO-CHAIRS

Koya C. Allen
U.S. European Command Headquarters, U.S. Department of Defense, Stuttgart, Germany

Juliette Morgan
Centers for Disease Control and Prevention South Caucasus, Tbilisi, Georgia

Christina Polyak
Military HIV Research Program, Walter Reed Army Institute of Research, Washington, DC, United States

Richard Reithinger
RTI International, Washington, DC, United States

8 a.m.
LIGHT CONTINENTAL BREAKFAST

8:30 a.m.
WELCOME AND COURSE LOGISTICS

8:45 a.m.
THE SCIENCE OF DIAGNOSTICS FOR DISEASE ERADICATION
Kimberly Won
Centers for Disease Control and Prevention, Atlanta, GA, United States

9:15 a.m.
QUESTION AND ANSWER SESSION

9:30 a.m.
THE SCIENCE OF MODELING FOR DISEASE ERADICATION
Maria-Gloria Basáñez
Imperial College London, London, United Kingdom

10 a.m.
QUESTION AND ANSWER SESSION

10:15 a.m.
COFFEE BREAK

10:30 a.m.
PANEL DISCUSSION: SURVEILLANCE
Koya C. Allen, Moderator
U.S. European Command Headquarters, U.S. Department of Defense, Stuttgart, Germany

Richard W. Steketee
MACEPA, PATH, Seattle, WA, United States

Gregory Armstrong
Centers for Disease Control and Prevention, Atlanta, GA, United States

11 a.m.
MODERATED DISCUSSION/QUESTION AND ANSWER SESSION

11:15 a.m.
KEYNOTE ADDRESS: AN OVERVIEW OF GETTING TO ZERO
Frank Richards
The Carter Center, Atlanta, GA, United States

11:45 a.m.
QUESTION AND ANSWER SESSION

Noon
LUNCH ON YOUR OWN

1:15 p.m.
THE SCIENCE AND ART OF COMMUNITY ENGAGEMENT IN DISEASE ELIMINATION AND ERADICATION
Teshome Gebre Kanno
The Task Force for Global Health, Addis Ababa, Ethiopia

1:45 p.m.
QUESTION AND ANSWER SESSION

2 p.m.
THE ECONOMICS OF DISEASE ERADICATION
Kimberly Thompson
University of Central Florida College of Medicine, Orlando, FL, United States

2:30 p.m.
QUESTION AND ANSWER SESSION

2:45 p.m.
THE SCIENCE OF POLITICAL AND FINANCIAL SUPPORT FOR DISEASE ERADICATION
Ellyn W. Ogden
United States Agency for International Development, Washington, DC, United States

3:15 p.m.
QUESTION AND ANSWER SESSION

3:30 p.m.
COURSE ADJOURNS

Young Investigator Award Sessions

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

ASTMH is grateful for the support of these awards in honor of William A. Petri, Sr. and in memory of Annie Liberati.

ASTMH appreciates support of these awards from:

The Petri Family

David Lyerly

TECHLAB Inc. **CONTRIBUTOR**

ACS Infectious Diseases/ACS Publications **CONTRIBUTOR**

Young Investigator Award Session A

Marriott - Room A708

Sunday, November 13, 10 a.m. - 3 p.m.

JUDGE

Stephen Davies

Uniformed Services University, Bethesda, MD, United States

Edward Mitre

Uniformed Services University, Bethesda, MD, United States

Roshanak T Semnani

National Institutes of Health, Bethesda, MD, United States

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SCHISTOSOMA MANSONI INFECTION IMPAIRS REPRODUCTION IN MICE

Monica C. Botelho¹, Graça Lopes², Mario Sousa², Fatima Gartner², Helena Alves¹, Joachim Richter³

¹National Institute of Health Dr. Ricardo Jorge, Porto, Portugal, ²ICBAS, Porto, Portugal, ³Faculty of Medicine of the Heinrich-Heine University, Duesseldorf, Germany

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IMPROVING IVERMECTIN'S EFFICACY AS A VECTOR CONTROL TOOL: REDUCING ITS METABOLISM AND EXCRETION TO PROLONG THE MOSQUITO-KILLING WINDOW

Carlos J. Chaccour¹, Sandra Castejon², Gloria Abizanda³, Ángel Irigoyen⁴, Azucena Aldaz², Felix Hammann⁵, José Luis Del Pozo²

¹Instituto de Salud Tropical Universidad de Navarra, Pamplona, Spain, ²Clinica Universidad de Navarra, Pamplona, Spain, ³Centro de Investigación Médica Aplicada, Pamplona, Spain, ⁴Drug Developing Unit Universidad de Navarra, Pamplona, Spain, ⁵University Hospital Basel, Basel, Switzerland

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MAPPING CLIMATIC, GEOGRAPHIC AND SOCIO-ECONOMIC DETERMINANTS OF MALARIA IN MALAWI FOR MALARIA RISK ASSESSMENT

James Chirombo¹, Rachel Lowe², Dianne J. Terlouw³, Pietro Ceccato⁴, Madeleine C. Thomson⁴, Peter J. Diggle⁵, Jonathan M. Read⁵

¹Lancaster University Medical School/Malawi Liverpool Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ²Institut Català de Ciències del Clima (IC³), Barcelona, Spain, ³Malawi Liverpool Wellcome Trust Clinical Research Programme/Liverpool School of Tropical Medicine, Blantyre, Malawi, ⁴International Research Institute for Climate and Society, New York, NY, United States, ⁵Lancaster University Medical School, Lancaster, United Kingdom

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MALARIA PREVENTIVE MEASURES DURING ROUTINE CARE AMONG CHILDREN WITH SICKLE CELL DISEASE IN MALAWI

Graham Ellis¹, Godwin Chipoka², Pilirani Mafunga², Christopher Stanley², Tisungane Mvalo², Portia Kamthunzi², Isobel Kambalambi², Peter Wasswa³, Kate Westmoreland⁴, Seyed Nourai⁵, Nigel Key⁴, Kenneth Ataga⁴, Satish Gopal²

¹Howard University College of Medicine, Washington, DC, United States, ²UNC Project Malawi, Lilongwe, Malawi, ³Baylor College of Medicine, Lilongwe, Malawi, ⁴University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁵University of Pittsburgh Medical Center, Pittsburgh, PA, United States

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DEWORMING IN PRE-SCHOOL AGE CHILDREN IN NIGERIA: ARE THOSE WHO NEED IT THE MOST RECEIVING TREATMENT?

Ifeoma D. Ozodiegwu¹, Daniel Owusu¹, Candice Collins¹, Ifeoma N. Anagbogu², Henry V. Doctor³, Megan A. Quinn¹

¹East Tennessee State University, Johnson City, TN, United States, ²Federal Ministry of Health, NTDs Control and Elimination Programme, Abuja, Nigeria, ³World Health Organization, Regional Office for the Eastern Mediterranean, Cairo, Egypt

565

COMPARISON OF TWO RECOMBINANT ANTIGENS FOR DIAGNOSIS OF CHRONIC HUMAN FASCIOLIASIS

Angel Hsu¹, Isabel McAuliffe², Lorna Cruz³, Ana M. Espino³, Sukwan Handali²
¹Emory University, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³University of Puerto Rico, San Juan, PR, United States

643

PARASITES IN THE PARK: AN EPIDEMIOLOGIC STUDY OF NYC PARKS FOR TOXOCARA SPECIES

Donna L. Tyungu¹, Carla Lee Lau¹, Rojelio Mejia², Henry Pollack¹

¹New York University, New York, NY, United States, ²National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States

677

WATER, SANITATION AND HYGIENE (WASH) AND ENVIRONMENTAL RISK FACTORS FOR SOIL-TRANSMITTED HELMINTH INTENSITY OF INFECTION IN TIMOR-LESTE, USING REAL TIME PCR

Suzy J. Campbell¹, Susana Nery¹, Rebecca Wardell¹, Catherine D'Este¹, Darren Gray¹, James McCarthy², Rebecca Traub³, Ross Andrews⁴, Stacey Llewellyn², Andrew Vallely⁵, Gail Williams⁶, Archie Clements¹

¹Australian National University, Canberra, ACT, Australia, ²QIMR Berghofer Medical Research Institute, Brisbane, QLD, Australia, ³University of Melbourne, Melbourne, VIC, Australia, ⁴Charles Darwin University, Casuarina, NT, Australia, ⁵University of New South Wales, Sydney, NSW, Australia, ⁶University of Queensland, Brisbane, QLD, Australia

1222

HOST EXPOSURE TO EARLY LIFE STAGES OF SCHISTOSOMA HAEMATOBIMUM DOES NOT ALTER THE BLADDER RESPONSE TO EGGS

Loc Le, Michael Hsieh

Biomedical Research Institute, Rockville, MD, United States

1226

AN EGG PROTEIN FROM SCHISTOSOMA MANSONI IS PROMISING FOR DEVELOPMENT OF HIGH-SPECIFICITY DIAGNOSTICS IN THE ERA OF INTENSIFIED CONTROL

Vanessa Silva-Moraes¹, Paulo M. Coelho¹, Donald A. Harn², Flavia F. Couto¹, William C. Borges³, Rafaela F. Grenfell¹, Ana Lucia T. Rabello¹, Lisa M. Shollenberger²

¹Rene Rachou Research Center - Oswaldo Cruz Foundation, Belo Horizonte, Brazil, ²University of Georgia, Athens, GA, United States, ³University Federal of Ouro Preto, Ouro Preto, Brazil

1228

A NOVEL CELL FREE DNA DETECTION ASSAY FOR THE DIAGNOSIS OF SCHISTOSOMIASIS JAPONICA

Kosala G. Weerakoon, Catherine A. Gordon, Geoffrey N. Gobert, Pengfei Cai, Donald P. McManus

QIMR Berghofer Medical Research Institute, Brisbane, Australia

1861

WOMEN'S SANITATION EXPERIENCES ARE ASSOCIATED WITH MENTAL HEALTH IN RURAL, ODISHA INDIA

Bethany A. Caruso, Hannah L. Cooper, Regine Haardorfer, Craig Hadley, Kathryn Yount, Thomas Clasen

Emory University, Atlanta, GA, United States

1910

THE MACROFILARICIDAL ACTIVITY OF A SINGLE DOSE OF IVERMECTIN, ALBENDAZOLE AND DIETHYLCARBAMAZINE AGAINST *WUCHERERIA BANCROFTI* IN CÔTE D'IVOIRE

Catherine M. Bjerum¹, Allassane Ouattara², Benjamin G. Koudou³, Abdoulaye Meite⁴, James W. Kazura⁵, Gary Weil⁶, Christopher L. King⁵

¹Case Western Reserve University, Cleveland, OH, United States, ²Centre Suisse de Recherche en Côte d'Ivoire, Abidjan, Côte D'Ivoire, ³Liverpool School of Tropical Medicine, Pembroke Place, Liverpool, United Kingdom, ⁴Programme National de Lutte Contre la Schistosomiase, les Geohelminthiases et la Filariose Lymphatique, Abidjan, Côte D'Ivoire, ⁵Center for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States, ⁶Infectious Diseases Division, Department of Internal Medicine, Washington University School of Medicine, St. Louis, MO, United States

Young Investigator Award Session B

Marriott - Room A701

Sunday, November 13, 10 a.m. – 3 p.m.

JUDGE

Christopher Barker

University of California Davis, Davis, CA, United States

Brian D. Foy

Colorado State University, Fort Collins, CO, United States

Edward D. Walker

Michigan State University, East Lansing, MI, United States

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MEASURING SPECIES- AND REGION-SPECIFIC MARKERS OF MOSQUITO BITES BY SMALL PEPTIDE ARRAYS

Andrew Pike¹, Jason A. Bailey¹, John C. Tan², Jigar J. Patel², Matthew B. Laurens¹, Drissa Coulibaly³, Amadou Niangaly³, Mahamadou A. Thera³, Ogobara K. Doumbo³, Tracking Resistance to Artemisinin Collaboration, Mark A. Travassos¹, Andrea A. Berry¹, Christopher V. Plowe¹

¹Institute for Global Health, Division of Malaria Research, University of Maryland School of Medicine, Baltimore, MD, United States, ²Roche NimbleGen Inc., Madison, WI, United States, ³University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali

532

INFLUENCE OF CO-INFECTION ON CARRIAGE OF HUMAN PATHOGENS IN BROWN RATS FROM AN URBAN SLUM SETTING

Ticiana S. Carvalho Pereira¹, Fábio Souza², Luana Santos², Ruth Walker², Arsinoê Pertile², Gabriel Pedra³, Thiago Bahiense⁴, Eduardo da Silva⁵, Mitermayer Reis², Albert Ko⁶, James Childs⁶, Michael Begon³, Federico Costa⁷

¹Instituto de Biologia, Universidade Federal da Bahia/Centro de Pesquisas Gonçalo Moniz, Fundação Oswaldo Cruz, Ministério da Saúde, Salvador, Brazil, ²Centro de Pesquisas Gonçalo Moniz, Fundação Oswaldo Cruz, Ministério da Saúde, Salvador, Brazil, ³Institute of Integrative Biology, University of Liverpool, Liverpool, United Kingdom, ⁴Instituto de Ciências da Saúde, Universidade Federal da Bahia, Salvador, Brazil, ⁵Instituto de Biologia, Universidade Federal da Bahia, Salvador, Brazil, ⁶Department of Epidemiology of Microbial Disease, Yale School of Public Health, New Haven, CT, United States, ⁷Instituto de Saúde Coletiva, Universidade Federal da Bahia, Salvador, Brazil

580

DUAL RNA-SEQ RESPONSES OF FIELD-DERIVED SPECIMENS OF THE AFRICAN SNAIL *BIOMPHALARIA PFEIFFERI* TO INFECTION WITH THE HUMAN PARASITE, *SCHISTOSOMA MANSONI* PROVIDE INSIGHT INTO HOST-PARASITE RELATIONSHIPS AND REPRODUCTIVE IMPLICATIONS OF PARASITISM

Sarah K. Buddenborg¹, Lijing Bu¹, Si-Ming Zhang¹, Gerald M. Mkoji², Eric S. Loker¹

¹University of New Mexico, Albuquerque, NM, United States, ²Kenya Medical Research Institute, Nairobi, Kenya

589

THE ASSOCIATION BETWEEN HEAVY RAINFALL EVENTS AND DIARRHEAL DISEASE: THE INFLUENCE OF URBAN AND RURAL GEOGRAPHY

Aniruddha Deshpande, Howard H. Chang, Karen Levy
Emory University, Atlanta, GA, United States

591

BURDEN OF DISEASE ATTRIBUTED TO WATER-BORNE TRANSMISSION OF SELECTED GASTROINTESTINAL PATHOGENS, AUSTRALIA 2010

Katherine B. Gibney, Joanne O'Toole, Martha Sinclair, Karin Leder
Monash University, Melbourne, Australia

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INVESTIGATING THE INFLUENCE OF *PLASMODIUM* INFECTION ON THE HUMAN VOLATILE ODOUR PROFILE IN AN ENDEMIC SETTING

Ailie Robinson¹, Jetske de Boer², Annette O. Busula³, Stephen Powers⁴, John Caulfield⁴, Mike Birkett⁴, John A. Pickett⁴, Willem Takken², James Logan¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Wageningen University, Wageningen, Netherlands, ³International Centre of Insect Physiology and Ecology, Nairobi, Kenya, ⁴Rothamsted Research, Harpenden, United Kingdom

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GENERIC AND STANDARDIZED DATA COLLECTION FORMS AND DATABASE APPLICABLE TO DIVERSE ENTOMOLOGICAL STUDIES OF MOSQUITOES

Samson S. Kiware¹, Alpha Malishee¹, Dickson Msaky¹, George Corliss², Gerry Killeen¹

¹Ifakara Health Institute, Dar Es Salaam, United Republic of Tanzania, ²Marquette University, Milwaukee, WI, United States

694

CELL TRAVERSAL BY MALARIA PARASITES: *PLASMODIUM* CELTOS BINDS AND DISRUPTS PLASMA MEMBRANES FROM THE CYTOPLASMIC FACE TO ENABLE THE EXIT OF PARASITES FROM CELLS DURING HOST AND VECTOR CELL TRAVERSAL

John R. Jimah, Nichole D. Salinas, Monica Sala-Rabanal, Nathaniel G. Jones, L. David Sibley, Colin Nichols, Paul Schlesinger, Niraj H. Tolia
Washington University School of Medicine, St. Louis, MO, United States

1012

EVALUATING THE POTENTIAL TO TRANSMIT MALARIA FROM HUMANS TO MOSQUITOES DURING CONTROLLED HUMAN MALARIA INFECTION WITH *P. FALCIPARUM* AND *P. VIVAX*

Katharine A. Collins¹, Matthew Adams¹, Hayley Mitchell¹, Romal Stewart¹, Claire Wang², Caroline Dobbin¹, Teun Bousema³, Robert Sauerwein³, Stephan Chalon⁴, Joerg Moehrle⁴, James McCarthy¹

¹QIMR Berghofer Medical Research Institute, Brisbane, Australia, ²QPID Pty Ltd, Brisbane, Australia, ³Radboud University Medical Centre, Nijmegen, Netherlands, ⁴Medicines for Malaria Venture, Geneva, Switzerland

1051

SCRUB TYPHUS: A LONG NEGLECTED PUBLIC HEALTH THREAT IN THE ASIA-PACIFIC AREA AND WORLDWIDE

Guang Xu, Christine M. Arcari, Daniel Jupiter, Peter C. Melby, David H. Walker
The University of Texas Medical Branch, Galveston, TX, United States

1281

SPATIO-TEMPORAL ANALYSIS AND *TRYPANOSOMA CRUZI* (AGENT OF CHAGAS DISEASE) INFECTION PREVALENCE OF CITIZEN-COLLECTED TRIATOMINE VECTORS ACROSS THE SOUTHERN USA

Rachel Curtis-Robles¹, Lisa D. Auckland¹, Sage Lane¹, Michael Z. Levy², Gabriel L. Hamer¹, Sarah A. Hamer¹

¹Texas A&M University, College Station, TX, United States, ²University of Pennsylvania, Philadelphia, PA, United States

1297

LONG-TERM EFFECT OF MASS DRUG ADMINISTRATION FOR SCABIES IN FIJI: EXPERIENCE FROM THE SHIFT TRIAL

Lucia Romani¹, Margot Whitfeld², Josefa Koroivueta³, Mike Kama³, Handan Wand¹, Lisi Tikoduadua², John Kaldor¹, Ross Andrews⁴, Andrew Steer⁵

¹Kirby Institute, Sydney, Australia, ²St. Vincent's Hospital, Sydney, Australia, ³Ministry of Health, Suva, Fiji, ⁴Menzies School of Health Research, Sydney, Australia, ⁵Murdoch Childrens Research Institute, Melbourne, Australia

1334

THERE AND BACK AGAIN: A MOSQUITO SPERM'S JOURNEY FROM INSEMINATION TO FERTILIZATION

Ethan Degner, Laura Harrington

Cornell University, Ithaca, NY, United States

1338

EVOLUTIONARY INFLUENCES ON THE REDUCTION IN ENZOOTIC CIRCULATION AND HUMAN INCIDENCE OF WESTERN EQUINE ENCEPHALITIS

Nicholas A. Bergren¹, Shannan L. Rossi¹, Richard A. Bowen², Scott C. Weaver¹

¹University of Texas Medical Branch, Galveston, TX, United States, ²Colorado State University, Fort Collins, CO, United States

1830

HYBRID ALLELIC IMBALANCE AND GENE EXPRESSION EVOLUTION IN THE *ANOPHELES GAMBIAE* SPECIES COMPLEX

Kevin C. Deitz¹, Willem Takken², Michel A. Slotman¹

¹Texas A&M University, College Station, TX, United States, ²Wageningen University, Wageningen, Netherlands

Young Investigator Award Session C

Marriott - Room A703

Sunday, November 13, 10 a.m. – 3 p.m.

JUDGE

Jeff Bailey

Case Western Reserve University, Cleveland, OH, United States

Brian Grimberg

Case Western Reserve University, Cleveland, OH, United States

Matthew B. Laurens

Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

David L. Narum

National Institutes of Health, Rockville, MD, United States

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FALSE-NEGATIVE MALARIA RAPID DIAGNOSTIC TESTS IN RWANDA: IMPACT OF *P. FALCIPARUM* ISOLATES LACKING HRP2 AND IMPROVED MALARIA CONTROL

Christina T. Kozycki¹, Noella Umulisa², Stephen Rulisa³, Corine Karema², Emil I. Mwikarago⁴, Jean Pierre Habimana⁴, Donald J. Krogstad¹

¹Tulane University, New Orleans, LA, United States, ²Malaria and Other Parasitic Diseases Division, Rwanda Biomedical Centre, Ministry of Health, Kigali, Rwanda,

³University of Rwanda, Faculty of Medicine, Kigali, Rwanda, ⁴National Reference Laboratory, Rwanda Biomedical Centre, Ministry of Health, Kigali, Rwanda

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EVOLUTION AND SPREAD OF "STEALTH" PFHRP2 DELETIONS IN *PLASMODIUM FALCIPARUM* IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Jonathan B. Parr¹, Robert Verity², Stephanie Doctor¹, Kelly Carey-Ewend¹, Breanna Turman¹, Mark Janko¹, Corinna Keeler¹, Amy Whitesell¹, Kashamuka Mwandagilirwa¹, Azra Ghani², Joris Likhwela³, Antoinette Tshetu⁴, Michael Emch¹, Jonathan Juliano¹, Steven Meshnick¹

¹University of North Carolina, Chapel Hill, NC, United States, ²Imperial College London, London, United Kingdom, ³Programme National de la Lutte contre le Paludisme, Kinshasa, Congo, Democratic Republic of the, ⁴University of Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo

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PHASE I VACCINE TRIAL FOR EBA-175 RII INDUCES HIGH LEVELS OF BINDING INHIBITORY ANTIBODIES THAT TARGET KEY FUNCTIONAL EPITOPES

Vashti Irani¹, Annie Mo², Ivo Mueller³, Peter Siba⁴, Paul Ramsland⁵, Jack Richards¹, James Beeson¹

¹Burnet Institute, Melbourne, Australia, ²National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ³Walter and Eliza Hall Institute, Parkville, Melbourne, Australia, ⁴Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, ⁵School of Science, RMIT University, Melbourne, Australia

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***PLASMODIUM FALCIPARUM* PARASITE CLEARANCE IN THE PERUVIAN AMAZON AS PART OF A DOD HARMONIZED CLINICAL TRIAL**

Edward S. Smith¹, Salomon Durand², Laura L. Tapia¹, Cesar Cabezas³, Paul E. Pachas², Moises Sihuinchu⁴, Kimberly A. Edgel⁵, Geral C. Baldeviano¹, Andres G. Lescano⁶, Sarah B. Ballard¹

¹U.S. Naval Medical Research Unit - 6, Lima, Peru, ²U.S. Naval Medical Research Unit - 6, Iquitos, Peru, ³Instituto Nacional de Salud, Lima, Peru, ⁴Hospital Iquitos Cesar Garayar Garcia, Iquitos, Peru, ⁵Naval Medical Research Center, Bethesda, MD, United States, ⁶Universidad Peruana Cayetano Heredia, Lima, Peru

873

STRUCTURAL AND FUNCTIONAL EFFECTS OF HEME BINDING TO RCPFHRP2: IMPLICATIONS FOR MALARIA DIAGNOSIS

Anna L. Bitting¹, Christine F. Markwalter¹, Robert A. Burton², David W. Wright¹

¹Vanderbilt University, Nashville, TN, United States, ²PATH, Seattle, WA, United States

875

ALL-IN-ONE, MULTIPLEXED ON-BEAD ELISA FOR MALARIAL BIOMARKERS PLDH AND PFHRP2

Christine F. Markwalter, Keersten M. Ricks, Anna L. Bitting, David W. Wright
Vanderbilt University, Nashville, TN, United States

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APTAMER-BASED LOW RESOURCE DIAGNOSTICS FOR DETECTION OF MALARIAL BIOMARKER PLASMODIUM LACTATE DEHYDROGENASE

Andrew G. Kantor, David Wright

Vanderbilt University, Nashville, TN, United States

937**TEMPORAL DYNAMICS OF GENOME-WIDE TRANSCRIPTION IN MALARIAL CHILDREN IN BURKINA FASO**

Aissatou Diawara¹, Massar Dieng¹, Aboubacar S. Coulibaly², Alfred B. Tiono², Sodiomon Sirima², Issiaka Soulama², Youssef Idaghdour¹
¹New York University Abu Dhabi, Abu Dhabi, United Arab Emirates, ²Centre National de Recherche et de Formation sur le Paludisme (CNRFP), Ouagadougou, Burkina Faso

940**TURNING BACK THE CLOCK: A HISTORY OF APICOMPLEXAN SPECIES DIVERGENCE**

Kyle Tretina, Kara Moser, Olukemi O. Ifeonu, James B. Munro, Joana C. Silva
 University of Maryland Baltimore, Baltimore, MD, United States

941**DETERMINATION OF THE *PLASMODIUM VIVAX* RECURRENCE PATTERN IN INDIVIDUALS OF THE COMMUNITIES OF CAHUIDE AND LUPUNA OF THE PERUVIAN AMAZON**

Jhonatan J. Alarcón Baldeón¹, Oscar Nolasco Cárdenas¹, Paulo Manrique Valverde¹, Gabriel Carrasco-Escobar¹, Mitchel Guzmán¹, Elmer Llanos-Cuentas², Joseph Vinetz³, Dionicia Gamboa¹
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Instituto de Medicina Tropical Alexander von Humboldt, Lima, Peru, ³University of California San Diego, San Diego, CA, United States

948**EVIDENCE OF SELECTION AND GENE COPY NUMBER VARIATIONS IN VIRULENCE FACTORS AND RESISTANCE GENES IN *PLASMODIUM FALCIPARUM* FROM LORETO - PERU**

Hugo Oswaldo Valdivia¹, Andres G. Lescano², Viviana Pinedo-Cancino³, Lastenia Ruiz⁴, Julian Rayner⁵, Oralee Branch⁶
¹Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Fundación para el Desarrollo Sostenible de la Amazonia Baja del Perú, Iquitos, Peru, ⁴Centro de Investigación de Recursos Naturales de la Amazonia, Universidad Nacional de la Amazonia Peruana, Iquitos, Peru, ⁵Malaria Programme, Wellcome Trust Sanger Institute, Hinxton, Peru, ⁶New York University Langone Medical Center, New York, NY, United States

999**A HYBRID *P. VIVAX* BLOOD STAGE-TRANSMISSION BLOCKING VACCINE CANDIDATE ELICITS ROBUST CELLULAR IMMUNE RESPONSES AND LONG-LIVED FUNCTIONAL ANTIBODIES**

Jairo A. Fonseca¹, Balwan Singh¹, Caitlin Bohannon¹, Monica Cabrera-Mora¹, Joshy Jacob¹, Myriam Arevalo-Herrera², Alberto Moreno¹
¹Emory Vaccine Center, Atlanta, GA, United States, ²Caucaseco Scientific Research Center, Malaria Vaccine and Drug Development Center (MVDC), Cali, Colombia

1319**ATYPICAL ACTIVATION OF HUMAN PRIMARY DENDRITIC CELLS BY *PLASMODIUM FALCIPARUM***

Anton Goetz, Maureen Ty, Ana Rodriguez
 New York University School of Medicine, New York, NY, United States

1514**DETECTION OF MALARIA INFECTION BY HEMOZOIN CONTENT COMPARED TO RDTs AND MICROSCOPY FROM PERUVIAN AMAZON SAMPLES**

Torrey T. Byrd¹, G. Christian Baldeviano², Vincent R. Gerbaso², Elisa Vidal², Rafael Saavedra-Langer³, Katty M. Arista³, Viviana Pinedo-Cancino³, Brian T. Grimberg¹
¹Case Western Reserve University, Cleveland, OH, United States, ²U.S. Naval Medical Research Unit - 6, Lima, Peru, ³Universidad Nacional de la Amazonia Peruana, Iquitos, Peru

1612**ELUCIDATING NATURAL KILLER CELL-MEDIATED ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY TOWARDS RED BLOOD CELLS INFECTED BY *PLASMODIUM FALCIPARUM***

Gunjan Arora, Geoffrey T. Hart, Sanjay A. Desai, Eric O. Long
 National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

1903**PHENOTYPIC AND FUNCTIONAL CHARACTERISTICS OF HLA-DR+ NEUTROPHILS IDENTIFIED IN CIRCULATION OF BRAZILIAN CUTANEOUS LEISHMANIASIS PATIENTS**

Richard E. Davis¹, Smriti Sharma², Jacilara Conceicao³, Pedro P. Carneiro³, Shyam Sundar², Olivia Bacellar³, Edgar M. Carvalho³, Mary E. Wilson¹
¹University of Iowa, Iowa City, IA, United States, ²Banaras Hindu University, Varanasi, India, ³Universidade Federal da Bahia, Salvador, Brazil

Young Investigator Award Session D

Marriott - Room A704
 Sunday, November 13, 10 a.m. – 3 p.m.

JUDGE

Peter Crompton
 National Institutes of Health, Rockville, MD, United States
Ann M. Moormann
 University of Massachusetts, Worcester, MA, United States
Miranda Oakley
 Food and Drug Administration, Silver Spring, MD, United States
Ann Stewart
 Walter Reed Army Institute of Research, Silver Spring, MD, United States

38***PLASMODIUM FALCIPARUM* PHISTC PROTEINS ARE REQUIRED FOR ANTIGEN DELIVERY TO THE INFECTED ERYTHROCYTE SURFACE**

Deepali B. Ravel, Pierre-Yves Mantel, Kathleen W. Dantzer, William C. Beyer, Nicolas M. Brancucci, Manoj T. Duraisingh, Matthias Marti
 Harvard School of Public Health, Boston, MA, United States

696**THROMBOSPONDIN RELATED SPOROZOITE PROTEIN IS IMPORTANT FOR THE ESTABLISHMENT OF *P. FALCIPARUM* LIVER STAGE INFECTION**

Charlie Jennison¹, Matthew T. O'Neill¹, Jennifer S. Armistead¹, Annie S. Yang¹, Sash Lopaticki¹, Norman M. Kneteman², Justin A. Boddey¹
¹Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ²University of Alberta, Edmonton, AB, Canada

841**MOLECULAR DISSECTION OF THE *PLASMODIUM* SPOROZOITE SURFACE GAPDH FOR MALARIA LIVER INVASION**

Sung-Jae Cha, Marcelo Jacobs-Lorena
 Johns Hopkins University, Baltimore, MD, United States

DEVELOPMENTAL CYCLE AND TISSUE SEQUESTRATION OF *P. VIVAX* TRANSMISSION STAGES IN THE NON-HUMAN PRIMATE MODEL

Elamaran Meibalan¹, Nicanor Obaldia III², Juliana Sa³, Siyuan Ma¹, Pedro Mejia¹, Roberto Moraes Barros³, William Otero², Manoj T. Duraisingh¹, Danny Milner¹, Curtis Huttenhower¹, Dyann F. Wirth¹, Tom Wellems³, Matthias Marti¹

¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama City, Panama, ³National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

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HIGH LEVEL OF SUBMICROSCOPIC INFECTIONS OF FOUR *PLASMODIUM* SPECIES DURING PRE-ELIMINATION PHASE IN NORTH SUMATERA, INDONESIA

Inke N. Lubis¹, Hendri Wijaya², Munar Lubis², Khalid Beshir¹, Chairuddin P. Lubis², Colin J. Sutherland¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²University of North Sumatera, Medan, Indonesia

926

ASSOCIATION BETWEEN CARRIAGE OF ASYMPTOMATIC INFECTIONS AND TIME TO CLINICAL MALARIA IN MALAWI: DATA FROM A LONGITUDINAL COHORT STUDY

Andrea G. Buchwald¹, Alick Sixpence², Millius Damson², Mabvuto Chimanya², Andy Bauleni², Syze Gama², John D. Sorkin¹, Karl Seydel³, Don Mathanga⁴, Terrie E. Taylor³, Miriam K. Laufer¹

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²Blantyre Malaria Project, Blantyre, Malawi, ³Michigan State University College of Osteopathic Medicine, East Lansing, MI, United States, ⁴University of Malawi, College of Medicine, Blantyre, Malawi

966

LONGITUDINAL ASSESSMENT OF PFSPZ-SPECIFIC T CELL RESPONSES IN MALARIA-NAÏVE ADULTS VACCINATED WITH PFSPZ VACCINE

Andrew S. Ishizuka¹, Kirsten E. Lyke², Sumana Chakravarty³, Andrea A. Berry², Adam DeZure¹, Eric R. James³, Thomas L. Richie³, Adam J. Ruben³, Tao Li³, B Kim Lee Sim³, Julie E. Ledgerwood¹, Stephen L. Hoffman¹, Robert A. Seder¹

¹National Institutes of Health, Bethesda, MD, United States, ²Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ³Sanaria Inc., Rockville, MD, United States

1243

POPULATION GENOMICS OF *PLASMODIUM FALCIPARUM* TO INFORM THE DESIGN AND EFFICACY OF WHOLE ORGANISM MALARIA VACCINES

Kara A. Moser¹, Amed Ouattara¹, Elliott F. Drabek¹, Sergey Koren², Adam Phillippy², Matt Adams¹, Amadou Niangaly³, Karim Traore³, Abdoulaye K. Kone³, Drissa Coulibaly³, Mahamadou A. Thera³, Ogobara K. Doumbo³, Miriam K. Laufer¹, Matthew B. Laurens¹, Krisada Jongsakul⁴, Chanthap Lon⁵, David Saunders⁴, Kay Thwe Han⁶, Myaing M. Nyunt¹, Robert W. Sauerwein⁷, B. Kim Lee Sim⁸, Toa Li⁸, Mark A. Travassos¹, Shannon Takala Harrison¹, Stephen L. Hoffman⁸, Christopher V. Plowe¹, Joana C. Silva¹

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²National Human Genome Research Institute, Bethesda, MD, United States, ³University Science, Techniques and Technologies, Bamako, Mali, ⁴Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁵Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, ⁶Ministry of Health, Yangon, Myanmar, ⁷Radboud University Medical Center, Nijmegen, Netherlands, ⁸Sanaria Inc., Rockville, MD, United States

VALIDATION OF ULTRASENSITIVE DETECTION OF ASYMPTOMATIC MALARIA USING DRIED BLOOD SPOTS

Kayvan Zainabadi¹, Matthew Adams¹, Zay Yar Han², Hnin Wai Lwin², Kay Thwe Han², Myaing Nyunt¹, Christopher Plowe¹

¹Institute for Global Health, Division of Malaria Research, University of Maryland School of Medicine, Baltimore, MD, United States, ²Department of Medical Research, Ministry of Health, Yangon, Myanmar

1307

CHARACTERIZATION OF THE TRYPANOSOMATID SECONDARY ALTERNATIVE OXIDASE - A NOVEL POTENTIAL DRUG TARGET

Stefanie Kate Menzies, Lindsay B. Tulloch, Andrew L. Fraser, Eoin R. Gould, Elizabeth F. King, Marija K. Zacharova, Gordon J. Florence, Terry K. Smith
University of St. Andrews, St. Andrews, United Kingdom

1317

GAMETOCYTE-SPECIFIC IMMUNITY PROVIDES A RATIONALE FOR NOVEL TRANSMISSION BLOCKING INTERVENTIONS IN *P. FALCIPARUM*

Kathleen Dantzer¹, Sanna Rijpma², Siyuan Ma¹, Dingying Tao³, Will Stone², Karl Seydel⁴, Miriam Laufer⁵, Huw Davies⁶, Phil Felgner⁶, Rhoel Dinglasan³, Terrie Taylor⁴, Curtis Huttenhower¹, Teun Bousema², Matthias Marti¹

¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Radboud University Nijmegen Medical Center, Nijmegen, Netherlands, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁴Michigan State University, East Lansing, MI, United States, ⁵University of Maryland School of Medicine, Baltimore, MD, United States, ⁶University of California Irvine, Irvine, CA, United States

1476

CHARACTERIZATION OF ANTIBODIES AGAINST *P. FALCIPARUM* INVASION PROTEIN PFMS10.

Elizabeth M. Villasis, Jorge Bendezu, Katherine Garro, Oscar Nolasco, Katherine Torres, Beronica Infante, Dionicia Gamboa, Joseph Vinetz
Universidad Peruana Cayetano Heredia, Lima, Peru

1606

PLACENTAL MALARIA IS ASSOCIATED WITH ALTERED FETAL CYTOKINE PROFILES

Sarah Boudova¹, Titus Divala², Randy Mungwira², Patricia Mawindo², Tamiwe Tamoka³, Marcelo B. Sztejn⁴, Kirsten E. Lyke¹, Cristiana Cairo⁵, Miriam K. Laufer¹

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1748

ARTEMISININ DIMERS AS PROMISING NEW DRUG LEADS FOR VISCERAL LEISHMANIASIS

Surendra K. Jain¹, Waseem Gul², Mahmoud A. Elsohly², Babu L. Tekwani¹

¹National Center for Natural Products Research, Department of BioMolecular Sciences, School of Pharmacy, University of Mississippi, University, MS, United States, ²EIshohly Laboratories, Inc., Oxford, MS, United States

1750

PROTEOMIC ANALYSIS OF PLASMA-DERIVED EXTRACELLULAR VESICLES IN NATURAL INFECTIONS OF *PLASMODIUM VIVAX*, *TRYPANOSOMA CRUZI* AND *FASCIOLA HEPATICA*

Joan Segui Barber¹, Alicia Galiano², Isabel Diaz³, Emanuella Fajardo⁴, Antonio Marcilla⁵, Igor C. Almeida⁴, Antonio Osuna³, Hernando A. del Portillo⁶

¹Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, ²Area de

Parasitologia, Departament de Biologia Cel·lular i Parasitologia, Universitat de València, València, Spain, ³Institute of Biotechnology, Biochemistry and Molecular Parasitology, University of Granada, Granada, Spain, ⁴Border Biomedical Research Center, Department of Biological Sciences, University of Texas, El Paso, TX, United States, ⁵Area de Parasitologia, Departament de Biologia Cel·lular i Parasitologia, Universitat de València, Joint Research Unit on Endocrinology, Nutrition and Clinical Dietetics, Universitat de València-Health Research Institute La Fe, Valencia, Spain, ⁶ICREA at ISGlobal Institute for Global Health, Hospital Clínic, Universitat de Barcelona, and Institut d'Investigació Germans Trias i Pujol (IGTP), Badalona, Spain

1844

WHOLE GENOME SEQUENCING USED TO DISTINGUISH *PLASMODIUM VIVAX* RELAPSE FROM REINFECTION AND PRIMAQUINE RESISTANCE IN PERU

Annie Cowell¹, Hugo Valdivia², Sesh Sundararaman³, Elizabeth Loy³, Andres G. Lescano⁴, Christian Baldeviano⁵, Salomon Durand⁵, Vince Gerbasi⁵, Beatrice Hahn³, Elizabeth Winzeler¹

¹University of California San Diego, La Jolla, CA, United States, ²Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ³University of Pennsylvania, Philadelphia, PA, United States, ⁴Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵U.S. Naval Medical Research Unit - 6, Lima, Peru

1904

HLA DR EXPRESSING LOW DENSITY NEUTROPHIL SUBSETS EXPAND DURING HUMAN VISCERAL LEISHMANIASIS AND CAN CONTRIBUTE TO T CELL PROLIFERATION.

Smriti Sharma¹, Richard Davis², Susanne Nysten³, David L. Sacks⁴, Shyam Sundar¹, Mary E. Wilson²

¹Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, ²University of Iowa, Iowa City, IA, United States, ³Karolinska Institutet, Stockholm, Sweden, ⁴NIH, Bethesda, MD, United States

1907

INVOLVEMENT OF NUCLEOTIDE-BINDING DOMAIN LEUCINE-RICH REPEAT PROTEIN 12 (NLRP12) IN VISCERAL LEISHMANIASIS (VL)

Diogo Valadares, Gwendolyn Clay, Richard E. Davis, Bayan Sudan, Yani Chen, Breanna Scorza, Fayyaz Sutterwala, Mary E. Wilson
University of Iowa, Iowa City, IA, United States

Young Investigator Award Session E

Marriott - Room A707

Sunday, November 13, 10 a.m. – 3 p.m.

JUDGE

Subash Babu

National Institutes of Health, Bethesda, MD, United States

Vitaliano A Cama

Centers for Disease Control and Prevention, Atlanta, GA, United States

Nicole Gottdenker

University of Georgia, Athens, GA, United States

Albert Ko

Yale School of Public Health, New Haven, CT, United States

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MATERNAL PARASITIC INFECTIONS ALTER INFANT ANTIBODY RESPONSE TO PNEUMOCOCCAL IMMUNIZATION

Noah D. McKittrick¹, David M. Vu¹, Derek Boothroyd¹, Indu Malhotra², Charles H. King², Francis M. Mutuku³, Angelle Desiree LaBeaud¹

¹Stanford University, Palo Alto, CA, United States, ²Case Western Reserve University School of Medicine, Cleveland, OH, United States, ³Technical University of Mombasa, Mombasa, Kenya

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USING AN INNOVATIVE TELEHEALTH MODEL TO SUPPORT PROVIDERS IN GEOGRAPHICALLY DISPERSED AREAS WHO DELIVER CARE TO HIV-POSITIVE PREGNANT WOMEN

Tara Ness¹, Mary F. Anness², Natalia Martinez-Paz², Kenton T. Unruh², David H. Spach², Brian R. Wood²

¹University of Washington, Seattle, WA, United States, ²University of Washington, Frontier AETC, Seattle, WA, United States

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LOW COST, IMAGING BASED DEVICE FOR PERFORMING A WHITE BLOOD CELL COUNT AND 3-PART DIFFERENTIAL AT THE POINT OF CARE

Catherine E. Majors, Michal Pawlowski, Tomasz Tkaczyk, Rebecca Richards-Kortum

Rice University, Houston, TX, United States

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COMBATING ANEMIA WITH IRON SUPPLEMENTATION MAY INEVITABLY CAUSE A TRANSIENT INCREASE IN MALARIA RISK

Morgan M. Goheen¹, Rita Wegmuller², Amat Bah², Bakary Darboe², Ebrima Danso², Andrew M. Prentice³, Carla Cerami¹

¹University of North Carolina at Chapel Hill School of Medicine, Chapel Hill, NC, United States, ²MRC International Nutrition Group, Keneba, Gambia, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

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A NOVEL ELECTRONIC ALGORITHM USING HOST BIOMARKER POINT-OF-CARE TESTS FOR MANAGEMENT OF FEVER IN UNDER-FIVES IN RESOURCE-POOR SETTINGS (E-POCT): A CONTROLLED, NON-INFERIORITY STUDY

Kristina Keitel¹, Frank Kagoro², John Masimba², Tarsis Mlaganile², Zamzam Said², Josephine Samaka², Hosiana Temba³, Willy Sangu⁴, Alain Gervais⁵, Valérie D'Acremont⁶, Blaise Genton⁷

¹Swiss Tropical and Public Health Institute/Boston Children's Hospital, Basel, Switzerland, ²Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, ³Ifakara Health Institute, Basel, United Republic of Tanzania, ⁴Dar es Salaam City Council, Dar es Salaam, United Republic of Tanzania, ⁵University Children's Hospital Geneva, Geneva, Switzerland, ⁶Swiss Tropical and Public Health Institute/Policlinique Universitaire Médicale Lausanne, Basel, Switzerland, ⁷Swiss Tropical and Public Health Institute/University Hospital Lausanne, Basel, Switzerland

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RISK FACTORS FOR ACUTE HUMAN BRUCELLOSIS IN NORTHERN TANZANIA

Shama Cash-Goldwasser¹, Michael J. Maze², Matthew P. Rubach³, Holly M. Biggs³, Robyn A. Stoddard⁴, Katrina J. Sharples⁵, Jo E. Halliday⁶, Sarah Cleaveland⁶, Michael Shand⁶, Blandina T. Mmbaga⁷, Charles Muiruri¹, Wilbrod Saganda⁸, Bingileki F. Lwezaula⁸, Rudovick R. Kazwala⁹, Venance P. Maro⁷, John A. Crump²

¹Duke Global Health Institute, Duke University, Durham, NC, United States, ²Centre for International Health, University of Otago, Dunedin, New Zealand, ³Division of Infectious Diseases, Duke University Medical Center, Durham, NC, United States, ⁴Centers for Disease Control and Prevention, Bacterial Special Pathogens Branch, Atlanta, GA, United States, ⁵Department of Mathematics and Statistics, University of Otago, Dunedin, New Zealand, ⁶Boyd Orr Centre for Population and Ecosystem Health, Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, ⁷Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, ⁸Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, ⁹Department of Veterinary Medicine and Public Health, Sokoine University of Agriculture, Morogoro, United Republic of Tanzania

LEPTOSPIRA SEROPREVALENCE AND RISK FACTORS IN HEALTH CENTRE PATIENTS IN HOIMA DISTRICT, WESTERN UGANDA

Jonathan Dyal¹, Anou Dreyfus², Raewynne Pearson³, Clovice Kankya⁴, Charles Kajura⁵, Lordrick Anaitwe⁶, Steven Kakooza⁴, Katey Pelican⁶, Dominic Travis⁶, Michael Mahero⁶, David R. Boulware⁷, Lawrence Mugisha⁴

¹Baylor College of Medicine, Houston, TX, United States, ²University of Zurich, Zurich, Switzerland, ³Massey University, Palmerston North, New Zealand, ⁴College of Veterinary Medicine, Makerere University, Kampala, Uganda, ⁵Hoima District Government, Hoima, Uganda, ⁶College of Veterinary Medicine, University of Minnesota, Minneapolis, MN, United States, ⁷Department of Medicine, University of Minnesota, Minneapolis, MN, United States

IMPACT OF REV1 LIVESTOCK VACCINATION ON THE RISK OF HUMAN BRUCELLOSIS IN AZERBAIJAN

Ian Kracalik¹, Rita Ismayilova², Mehriban Baghirova³, Jason K. Blackburn¹

¹University of Florida, Gainesville, FL, United States, ²Anti-Plague Station, Baku, Azerbaijan, ³State Veterinary Service, Baku, Azerbaijan

RISK FACTORS FOR ACUTE LEPTOSPIROSIS IN NORTHERN TANZANIA

Michael J. Maze¹, Shama Cash-Goldwasser², Holly M. Biggs³, Matthew P. Rubach³, Renee L. Galloway⁴, Katrina J. Sharples⁵, Kathryn J. Allan⁶, Jo E. Halliday⁶, Sarah Cleaveland⁶, Michael C. Shand⁶, Charles Muiriri², Rudovick R. Kazwala⁷, Wilbrod Saganda⁸, Bingileki F. Lwezaula⁸, Blandina T. Mmbaga⁹, Venance P. Maro⁹, John A. Crump¹

¹Centre for International Health, University of Otago, Dunedin, New Zealand, ²Duke Global Health Institute, Durham, NC, United States, ³Division of Infectious Diseases, Duke University Medical Center, Durham, NC, United States, ⁴Centers for Disease Control and Prevention, Bacterial Special Pathogens Branch, Atlanta, GA, United States, ⁵Department of Mathematics and Statistics, University of Otago, Dunedin, New Zealand, ⁶Boyd Orr Centre for Population and Ecosystem Health, Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, ⁷Department of Veterinary Medicine and Public Health, Sokoine University of Agriculture, Morogoro, United Republic of Tanzania, ⁸Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, ⁹Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania

IDENTIFICATION OF FACTORS ASSOCIATED WITH CHRONIC CHIKUNGUNYA DISEASE IN PATIENTS IN GRENADA, WEST INDIES

Claire J. Heath¹, Jason Lowther², Trevor P. Noël², Idis Mark-George², Derek B. Boothroyd¹, Calum N. MacPherson², A. Desiree LaBeaud¹

¹Stanford University, San Francisco, CA, United States, ²WINDREF, St. George's University, St. George's, Grenada

RISK FACTORS FOR ANTIBODY LOSS AFTER HEPATITIS E VIRUS NATURAL INFECTION OR VACCINATION: RESULTS OF A MULTI-SITE COHORT STUDY

Brittany L. Kmush¹, Ting Wu², Tuly Rahman³, Huan Yu², Kenrad Nelson¹, James W. Shih², K. Zaman³, Alain B. Labrique¹

¹Johns Hopkins School of Public Health, Baltimore, MD, United States, ²National Institute of Diagnostics and Vaccine Development in Infectious Diseases, The Key Laboratory of the Ministry of Education for Cell Biology and Tumour Cell Engineering, Xiamen University, Xiamen, China, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

LINKING HOUSEHOLD AND POINT-OF-CARE DATA TO ESTIMATE COVERAGE OF APPROPRIATE MANAGEMENT OF CHILDHOOD ILLNESS IN SOUTHERN PROVINCE, ZAMBIA

Emily Carter¹, Micky Ndhlovu², Emmy Nkhama², Melinda Munos¹, Joanne Katz³, Thomas P. Eisele⁴

¹Institute for International Programs, Johns Hopkins School of Public Health, Baltimore, MD, United States, ²Chainama College of Health Sciences, Lusaka, Zambia, ³Johns Hopkins School of Public Health, Baltimore, MD, United States, ⁴Center for Applied Malaria Research and Evaluation, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

RISK FACTORS ASSOCIATED WITH TYPICAL ENTEROPATHOGENIC ESCHERICHIA COLI INFECTION AMONG CHILDREN <5 YEARS OLD WITH MODERATE-TO-SEVERE DIARRHEA IN RURAL WESTERN KENYA, 2008-2012

Kirsten Fagerli¹, Richard Omoro², Sunkyoung Kim³, John B. Ochieng², Tracy Ayers³, Tamer H. Farag⁴, Dilruba Nasrin⁴, Sandra Panchalingam⁴, Roy M. Robins-Browne⁵, James P. Nataro⁴, Karen L. Kotloff⁴, Myron M. Levine⁴, Joseph Oundo², Michele B. Parsons³, Kayla Laserson⁶, Eric D. Mintz³, Robert F. Breiman⁷, Ciara E. O'Reilly³

¹Emory University, Atlanta, GA, United States, ²Kenya Medical Research Institute/Centers for Disease Control and Prevention, Kisumu, Kenya, ³Division of Foodborne, Waterborne and Environmental Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴University of Maryland, School of Medicine, Center for Vaccine Development, Baltimore, MD, United States, ⁵Department of Microbiology and Immunology, The University of Melbourne, Victoria, Australia, ⁶Centers for Disease Control and Prevention, Kisumu, Kenya, ⁷Centers for Disease Control and Prevention, Nairobi, Kenya

METHICILLIN-SENSITIVE AND METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS (MRSA) CARRIAGE AT A UGANDAN REGIONAL REFERRAL HOSPITAL

Lisa M. Bebell¹, Arnold Ayebare², Yap Boum II³, Mark J. Siedner¹, Joel Bazira², Steven J. Schiff¹, Joshua P. Metlay¹, David R. Bangsberg¹, Stephen Ttendo², Paul G. Firth¹

¹Massachusetts General Hospital, Boston, MA, United States, ²Mbarara University of Science and Technology, Mbarara, Uganda, ³Epicentre Research Base, Mbarara, Uganda, ⁴The Pennsylvania State University, Hershey, PA, United States

ACTIVATION OF HUMAN KERATINOCYTES BY LEISHMANIA SPP.: DIVERGENT EFFECTS OF LEISHMANIA INFANTUM VERSUS LEISHMANIA MAJOR

Breanna Scorza, Mark Wacker, Kelly Messingham, Janet Fairley, Mary Wilson
University of Iowa, Iowa City, IA, United States

HIGH SERUM ZINC LEVELS PROTECT AGAINST ROTAVIRUS INFECTION BUT NOT OTHER DIARRHEA-ASSOCIATED PATHOGENS IN A BIRTH COHORT IN BANGLADESH

E. Ross Colgate¹, Dorothy M. Dickson¹, Rashidul Haque², Mami Taniuchi³, James A. Platts-Mills³, Josyf C. Mychaleckyj³, Uma Nayak², Marya P. Carmolli¹, William A. Petri³, Beth D. Kirkpatrick¹

¹University of Vermont College of Medicine, Burlington, VT, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³University of Virginia, Charlottesville, VA, United States

ASSESSING IMPACT OF COMMUNITY-BASED ANTIRETROVIRAL THERAPY AND ITS SCALE UP: PERSPECTIVES FROM FOUR PRIORITY LOCAL GOVERNMENT AREAS IN LAGOS, NIGERIA

Chinedu O. Oraka¹, Babatunde Odusolu¹, Adegbeniga Olarinoye¹, Chinedu Agbakwuru², Titi Badru², Ifeyinwa Ndubuisi¹, Mariam Adeyemi¹, Ebere Iwerumoh¹, Adedoyin Ogunyemi¹

¹FHI 360, Lagos, Nigeria, ²FHI 360, Abuja, Nigeria

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

Marriott - Room L401/L402

Sunday, November 13, 11 a.m. - Noon

Speaker Ready Room

Marriott - International A

Sunday, November 13, Noon - 6 p.m.

Press Room

Marriott - Room M102

Sunday, November 13, Noon - 5:30 p.m.

TropStop- Student/Trainee Lounge

Marriott - Atrium Loft

Sunday, November 13, Noon - 5 p.m.

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 "Office Hours," held in the TropStop. This will be your opportunity to meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Internet Nook

Marriott - Imperial Foyer

Sunday, November 13, Noon - 6 p.m.

Sponsored by Takeda Pharmaceuticals International AG

PREMIER

Meeting Sign-Up Room

Hilton - Rooms 206 and 207

Sunday, November 13, Noon - 10 p.m.

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

Marriott - Room L401/L402

Sunday, November 13, Noon - 2 p.m.

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Mentor/Trainee Lunch

Marriott - Room A702

Sunday, November 13, Noon - 1:30 p.m.

A mentoring event for matched ACMCIP trainees to have lunch with a senior/faculty member in a similar interest area(s). By invitation only.

Elsevier-ASTMH Clinical Research Award

Marriott - Room A706

Sunday, November 13, Noon - 3:15 p.m.

This award recognizes excellence in clinically-oriented research presented by students (within six months of completing

undergraduate or master's level training, including medical undergraduate degrees) or those in graduate medical training, of work submitted and presented (oral or poster) at the ASTMH Annual Meeting. Support these young scientists by attending their presentations during this session.

ASTMH appreciates the continued support of this award from Elsevier.

ORGANIZER

M. Patricia Joyce

Centers for Disease Control and Prevention, Atlanta, GA, United States

JUDGE

Miguel M. Cabada

Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Cusco, Peru

Duane Hospenthal

University of Texas Health Science Center at San Antonio, San Antonio, TX, United States

Latha Rajan

Tulane University, New Orleans, LA, United States

12:05 p.m.

1140

PREVALENCE OF PREECLAMPSIA AMONG HIV-POSITIVE PREGNANT WOMEN AS COMPARED TO HIV-NEGATIVE WOMEN IN IBADAN

Richard O. Olayide, Timothy A. Oluwasola, Olubukola A. Adesina
University College Hospital, Ibadan, Nigeria

12:20 p.m.

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EPIDEMIOLOGY OF LEPTOSPIROSIS AMONG PATIENTS PRESENTING WITH ACUTE FEBRILE ILLNESS TO LAKESIDE HEALTH CENTERS IN RURAL RWANDA

Marc Munyengabe, DeVon Hale, Tim Walker, Cyprien Ntirenganya, Etienne Ntabanganyimana
University Teaching Hospital Butare, Huye, Rwanda

12:35 p.m.

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PLASMODIUM FALCIPARUM PARASITE CLEARANCE IN THE PERUVIAN AMAZON AS PART OF A DOD HARMONIZED CLINICAL TRIAL

Edward S. Smith¹, Salomon Durand², Laura L. Tapia¹, Cesar Cabezas³, Paul E. Pachas², Moises Sihuincha⁴, Kimberly A. Edgel⁵, Geral C. Baldeviano¹, Andres G. Lescano⁶, Sarah B. Ballard¹

¹U.S. Naval Medical Research Unit - 6, Lima, Peru, ²U.S. Naval Medical Research Unit - 6, Iquitos, Peru, ³Instituto Nacional de Salud, Lima, Peru, ⁴Hospital Iquitos Cesar Garayar Garcia, Iquitos, Peru, ⁵Naval Medical Research Center, Bethesda, MD, United States, ⁶Universidad Peruana Cayetano Heredia, Lima, Peru

12:50 p.m.

1308

UNDERSTANDING THE ROLE OF LEISHMANIA RNA VIRUS-1 (LRV-1) IN THE PATHOGENESIS OF AMERICAN TEGUMENTARY LEISHMANIASIS USING A HUMAN MACROPHAGE MODEL

Ruwandi Kariyawasam¹, Jugvinder Grewal¹, Andrew Pursell², Rachel Lau³, Braulio M. Valencia⁴, Alejandro Llanos-Cuentas⁴, Andrea K. Boggild¹

¹University of Toronto, Toronto, ON, Canada, ²University of British Columbia, Vancouver, BC, Canada, ³Public Health Ontario Laboratories, Toronto, ON, Canada, ⁴Instituto de Medicina Tropical "Alexander von Humboldt", Lima, Peru

1:05 p.m.

461

INFECTIOUS ETIOLOGIES OF FEBRILE ILLNESSES IN CAMEROON

Obadia Mfuh Kenji¹, Samuel Tassi Yunga¹, Obase Bekindaka², Calixt Mbakop³, Olivia A. Achonduh-Atijegbe², Diane W. Taylor¹, Rose G. Leke², Vivek R. Nerurkar¹

¹University of Hawaii, Honolulu, HI, United States, ²University of Yaounde I, Yaounde, Cameroon, ³National Medical Research Institute, Yaounde, Cameroon

1:20 p.m.

12

IMMUNE RESPONSE TO ORAL CHOLERA VACCINE (SHANCHOL) IN INTERNALLY DISPLACED PERSONS IN SOUTH SUDAN

Anita S. Iyer¹, Malika Bouhenia², John Rumunu³, Abdinasir Abubakar², Randon Gruninger¹, Jane Pita³, Richard Laku³, Lul Deng³, Joesph F. Wamala², Edward T. Ryan⁴, Stephen Martin⁵, Dominique Legros⁶, Justin Lessler⁶, David Sack⁷, Francisco J. Luquero⁸, Daniel T. Leung⁹, Andrew S. Azman⁶

¹Division of Infectious Diseases, Department of Internal Medicine, University of Utah, Salt Lake City, UT, United States, ²World Health Organization, Juba, South Sudan, ³Republic of South Sudan Ministry of Health, Juba, South Sudan, ⁴Department of Immunology and Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, ⁵World Health Organization, Geneva, Switzerland, ⁶Department of Epidemiology, Johns Hopkins University, Baltimore, MD, United States, ⁷Department of International Health, Johns Hopkins University, Baltimore, MD, United States, ⁸Epicenter, Paris, France, ⁹Division of Infectious Diseases, Department of Internal Medicine, Division of Microbiology and Immunology, Department of Pathology, University of Utah, Salt Lake City, UT, United States

1:35 p.m.

BREAK

1:55 p.m.

367

IMMUNOLOGICAL EFFECT OF SEASONAL MALARIA CHEMOPREVENTION (SMC) WITH SULFADOXINE-PYRIMETHAMINE (SP) AND AMODIAQUINE (AQ) IN CHILDREN UNDER 10 YEARS IN THE SOUTHEASTERN PART OF SENEGAL

Khadime Sylla, Roger Clement Tine, Doudou Sow, Magatte Ndiaye, Jean Louis Ndiaye, Daouda Ndiaye, Oumar Gaye, Babacar Faye
University Cheikh Anta Diop, Dakar, Dakar, Senegal

2:10 p.m.

468

PARASITE AND MYCOBACTERIUM TUBERCULOSIS CO-INFECTION IN IMMIGRANTS

Lauren A. Saag¹, Rachel L. Epstein², Jackson B. Mesick¹, Sondra S. Crosby², Sarah L. Kimball², Elizabeth D. Barnett², Natasha S. Hochberg²

¹Boston University School of Public Health, Boston, MA, United States, ²Boston University School of Medicine, Boston, MA, United States

2:25 p.m.

478

IRON DEFICIENCY IS COMMON IN UGANDAN CHILDREN WITH SICKLE CELL ANEMIA

Aubri S. Carman¹, Andrea L. Conroy¹, Robert O. Opoka², Adam Lane³, Russell E. Ware³, Sarah E. Cusick⁴, Chandy C. John¹

¹Ryan White Center for Pediatric Infectious Disease and Global Health, Indiana University School of Medicine, Indianapolis, IN, United States, ²Department of Paediatrics and Child Health, Makerere University College of Health Sciences, Kampala, Uganda, ³Division of Hematology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, ⁴Division of Global Pediatrics, The University of Minnesota Medical School, Minneapolis, MN, United States

2:40 p.m.

476

MALARIA PREVENTIVE MEASURES DURING ROUTINE CARE AMONG CHILDREN WITH SICKLE CELL DISEASE IN MALAWI

Graham Ellis¹, Godwin Chipoka², Pilirani Mafunga², Christopher Stanley², Tsungane Mvalo², Portia Kamthunzi², Isobel Kambalami², Peter Wasswa³, Kate Westmoreland⁴, Seyed Nouraie⁵, Nigel Key⁴, Kenneth Ataga⁴, Satish Gopal²

¹Howard University College of Medicine, Washington, DC, United States, ²UNC Project Malawi, Lilongwe, Malawi, ³Baylor College of Medicine, Lilongwe, Malawi, ⁴University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁵University of Pittsburgh Medical Center, Pittsburgh, PA, United States

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

Marriott - Room L401/L402

Sunday, November 13, 2 p.m. - 3:30 p.m.

Point of Entry: First-Time Attendee Orientation

Marriott - Atrium B

Sunday, November 13, 2:30 p.m. - 3:30 p.m.

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 staff 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.

Young Investigator Award Committee Meeting

Marriott - Room A701

Sunday, November 13, 3 p.m. - 4 p.m.

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

Marriott - Room M302

Sunday, November 13, 3:30 p.m. - 5:30 p.m.

ASTMH Committee on Global Health (ACGH) Council Meeting

Marriott - Room M303

Sunday, November 13, 3:30 p.m. - 5:30 p.m.

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

Marriott - Room M201

Sunday, November 13, 3:30 p.m. - 5:30 p.m.

Student Reception

Marriott - Skyline Level

Sunday, November 13, 4 p.m. - 5 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Marriott - Room M304

Sunday, November 13, 4 p.m. - 5:30 p.m.

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

Marriott - Room L401/L402

Sunday, November 13, 4 p.m. - 5:30 p.m.

Plenary Session 1

Plenary Session I: Keynote Address and Awards Program

Marriott - Marquis Ballroom

Sunday, November 13, 5:30 p.m. - 7 p.m.

CHAIR

Stephen Higgs

Kansas State University, Biosecurity Research Institute, Manhattan, KS, United States

Daniel G. Bausch

World Health Organization, Geneva, Switzerland

5:30 p.m.

WELCOMING REMARKS

Daniel G. Bausch

World Health Organization, Geneva, Switzerland

5:45 p.m.

KEYNOTE ADDRESS: Zika: A Storm in the Making



Carissa F. Etienne, MBBS, MSc
Director, Pan American Health Organization

Dr. Carissa F. Etienne was elected Director of the Pan American Health Organization (PAHO) by the Member States of the Organization in September 2012 and began her five-year term in February 2013. From March 2008 until November 2012, Dr. Etienne served as

Assistant Director-General for Health Systems and Services at the World Health Organization in Geneva, Switzerland. Prior to that, as Assistant Director of PAHO from July 2003 to February 2008, she led five technical areas: Health Systems and Services; Technology, Health Care and Research; Health Surveillance and Disease Management; Family and Community Health; and Sustainable Development and Environmental Health.

During her tenures at WHO and PAHO, Dr. Etienne led the efforts to renew primary healthcare and to strengthen health systems based on primary healthcare, promoting integration and improved functioning of health systems. She also spearheaded policy directions for reducing health inequalities and advancing health for all through universal coverage, people-centered care, the integration of health into broader public policies, and inclusive and participatory health leadership. *The World Health Report 2010 – Health systems financing: The path to universal coverage* was produced under the direction of Dr. Etienne and WHO's Deputy Director-General. The report is recognized worldwide for providing an agenda for action by countries at all stages of development to move more quickly and in a sustainable manner toward universal coverage, while proposing ways in which the international community can better support efforts to achieve universal coverage and improve health outcomes. Dr. Etienne has also led the WHO global agenda to support universal access

to safe and efficacious medical products and the development of a global code of practice for the international recruitment of health personnel. Additionally, she chaired the International Health Partnership (IHP+) initiative, which seeks to commit partners to work together and put into practice international principles for effective aid and development cooperation in the health sector. In her native Dominica, Dr. Etienne began her career as a medical officer at the Princess Margaret Hospital, where she eventually became the Chief Medical Officer. She also served in other high-level posts in Dominica, including Coordinator of the National AIDS Program, Disaster Coordinator for the Ministry of Health, Chair of the National Advisory Council for HIV/AIDS, and Director of Primary Health Care Services. Dr. Etienne received her medical degree (Bachelor of Medicine and Bachelor of Surgery-MBBS) from the University of the West Indies, Jamaica, and her Master in Science (MSc) in Community Health in Developing Countries from the London School of Hygiene & Tropical Medicine, University of London.

6:15 p.m.

AWARDS PROGRAM

Presiding Officer: Stephen Higgs

Biosecurity Research Institute, Kansas State University, Manhattan, KS, United States

- Recognition of ASTMH/BMGF Annual Meeting Travel Awards
- Recognition of Young Investigator Awards
- Recognition of Elsevier-ASTMH Clinical Research Award
- Recognition of Burroughs Wellcome Fund - ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

WILLIAM TRAGER AWARD FOR BASIC PARASITOLOGY (ACMCIP)

Stefan Kappe

Center for Infectious Disease Research, Seattle, WA, United States

BREAKTHROUGHS IN MEDICAL ENTOMOLOGY AWARD (ACME)

Serap Aksoy

Yale University School of Medicine, New Haven, CT, United States

HARRY HOOGSTRAAL MEDAL (ACME)

Patricia Nuttall

University of Oxford, Oxford, United Kingdom

DALRYMPLE-YOUNG AWARD (ACAV)

Kathryn Hanley

New Mexico State University, Las Cruces, NM, United States

RICHARD M. TAYLOR AWARD (ACAV)

John (Jack) P. Woodall

Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

RECOGNITION OF FELLOWS OF ASTMH (FASTMH)

HONORARY INTERNATIONAL FELLOWS OF ASTMH (FASTMH)

Graham V. Brown
University of Melbourne, Melbourne, Australia

Rodrigo Correa-Oliveira
FIOCRUZ, Belo Horizonte, Brazil

Ogobara Doumbo
Malaria Research & Training Center, Bamako, Mali

Rashidul Haque
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

Ayoade MJ. Oduola, PhD
University of Ibadan, Ibadan, Nigeria

COMMUNICATIONS AWARD

Warren Cornwall
Science

Presented by

Peter J. Hotez
Baylor College of Medicine, Houston, TX, United States

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

BAILEY K. ASHFORD MEDAL

Stefan Kappe
Center for Infectious Disease Research, Seattle, WA, United States

BEN KEAN MEDAL

Terrie E. Taylor
Michigan State University, East Lansing, MI, United States

Exhibit Hall Open

Marriott - International Hall
Sunday, November 13, 7 p.m. – 9:30 p.m.

Opening Reception

Marriott - International Hall
Sunday, November 13, 7 p.m. - 9:30 p.m.

Sponsored in part by Bayer **CONTRIBUTOR**

Monday, November 14

Registration

Marriott - Marquis Foyer
Monday, November 14, 7 a.m. - 5 p.m.

Speaker Ready Room

Marriott - International A
Monday, November 14, 7 a.m. - 5 p.m.

TropStop - Student/Trainee Lounge

Marriott - Atrium Loft
Monday, November 14, 7 a.m. - 5 p.m.

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 "Office Hours," held in the TropStop. This will be your opportunity to meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Internet Nook

Marriott - Imperial Foyer
Monday, November 14, 7 a.m. - 5 p.m.

Sponsored by Takeda Pharmaceuticals International AG

PREMIER

Meeting Sign-Up Room

Marriott - Hilton Rooms 206 and 207
Monday, November 14, 7 a.m. - 10 p.m.

Clinical Standards and Treatment Guidelines Committee Meeting

Marriott - Room M304
Monday, November 14, 7 a.m. - 8 a.m.

ASTMH Diploma Course Directors Meeting

Marriott - Room M303
Monday, November 14, 7 a.m. - 8 a.m.

ASTMH Travel Awards Meeting

Marriott - Room M301/M302
Monday, November 14, 7 a.m. - 8 a.m.

Press Room

Marriott - Room M102
Monday, November 14, 7:45 a.m. - 5 p.m.

Scientific Session 2

Filariasis: Epidemiology and Control I

Marriott - Imperial A
Monday, November 14, 8 a.m. - 9:45 a.m.

CHAIR

Julie Harris
Centers for Disease Control and Prevention, Atlanta, GA, United States

Daniel J. Tisch
Case Western Reserve University, Cleveland, OH, United States

8 a.m.

1

LYMPHATIC FILARIASIS RESIDUAL TRANSMISSION HOTSPOTS IN AMERICAN SAMOA

Patricia M. Graves¹, Colleen Lau², Maureen Roineau¹, Stephanie Ryan¹, Athena Andreosso¹, Sarah Sheridan³, Saipale Fuimano⁴, Joseph Tufa⁴

¹James Cook University, Cairns, Qld, Australia, ²Australia National University, Canberra, ACT, Australia, ³University of Queensland, Brisbane, Qld, Australia, ⁴Department of Health, Pago Pago, American Samoa

8:15 a.m.

2

EXCESS MORTALITY ASSOCIATED WITH HIGH LOA LOA MICROFILAREMIA IN THE EAST REGION OF CAMEROON: A RETROSPECTIVE COHORT STUDY

Cédric B. Chesnais¹, Innocent Takougang², Marius Paguele³, Michel Boussinesq¹, Sébastien D. Pion¹

¹Institut de Recherche pour le Développement, Montpellier, France, ²Department of Public Health, Faculty of Medicine and Biomedical Sciences, University of Yaoundé I, Yaoundé, Cameroon, ³Regional Delegation of Health, Ministry of Public Health, Bertoua, Cameroon

8:30 a.m.

3

PROGRESS TOWARDS ONCHOCERCIASIS ELIMINATION IN THE PARTICIPATING COUNTRIES OF THE AFRICAN PROGRAM FOR ONCHOCERCIASIS CONTROL: EPIDEMIOLOGICAL EVALUATION RESULTS

Afework H. Tekle¹, Honorat G. Zouré¹, Mounkaila Noma¹, Michel Boussinesq², Luc E. Coffeng³, Wilma A. Stolk³, Jan H. Remme⁴

¹African Programme for Onchocerciasis Control, Ouagadougou, Burkina Faso, ²Institut de Recherche pour le Développement (IRD), Montpellier, France, ³Erasmus MC, Rotterdam, Netherlands, ⁴Consultant, Ornex, France

8:45 a.m.

4

DETECTING INFECTION HOTSPOTS: MODELING THE SURVEILLANCE CHALLENGE FOR ELIMINATION OF LYMPHATIC FILARIASIS AND OTHER DISEASES

Julie Harris, Ryan Wiegand

Centers for Disease Control and Prevention, Atlanta, GA, United States

9 a.m.

5

USE OF AN ADULT TRANSMISSION ASSESSMENT SURVEY TO ASSESS PERSISTENCE OF LYMPHATIC FILARIASIS AT THE EVALUATION UNIT LEVEL IN GALLE, SRI LANKA

Sandhya D. Samarasekera¹, Ramakrishna U. Rao², Kumara C. Nagodavithana¹, Manjula W. Punchihewa³, Gary J. Weil²

¹Ministry of Health and Nutrition, Anti-Filariasis Campaign, Colombo, Sri Lanka, ²Washington University School of Medicine, St. Louis, MO, United States, ³Ministry of Health and Nutrition, Regional Anti-Filariasis Campaign, Galle, Sri Lanka

9:15 a.m.

6

IMPACT OF LONG LASTING INSECTICIDE TREATED BEDNETS ON LYMPHATIC FILARIASIS PREVALENCE IN PAPUA NEW GUINEA

Daniel J. Tisch¹, Yao-Chieh Cheng¹, Samson Satofan², Naomi Vincent², Lisa Reimer³, Christopher King¹, Peter Siba⁴, James W. Kazura¹, Peter A. Zimmerman¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Papua New Guinea Institute of Medical Research, Maprik, Papua New Guinea, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁴Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

9:30 a.m.

7

IMPACT OF ANNUAL AND SEMI-ANNUAL MASS DRUG ADMINISTRATION IN AREAS CO-ENDEMIC FOR BRUGIA TIMORI AND WUCHERERIA BANCROFTI IN EAST NUSA TENGGARA, INDONESIA

Taniawati Supali¹, Yenny Djuardi¹, Roosпита Maylasari¹, Difa Stefanie¹, Elisa Iskandar¹, Gary J. Weil², Peter Uwe Fischer²

¹Department of Parasitology, University of Indonesia, Jakarta, Indonesia, ²Washington University School of Medicine, St. Louis, MO, United States

Scientific Session 3

Bacteriology: Cholera

Marriott - Imperial B

Monday, November 14, 8 a.m. - 9:45 a.m.

CHAIR

Andrew Azman

Johns Hopkins School of Public Health, Baltimore, MD, United States

Richelle C. Charles

Massachusetts General Hospital, Boston, MA, United States

8 a.m.

8

EL NIÑO AND THE SHIFTING GEOGRAPHY OF CHOLERA IN AFRICA

Sean M. Moore, Andrew S. Azman, Heather McKay, Justin Lessler

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

8:15 a.m.

9

SURVEILLANCE FOR CHOLERA MORTALITY DURING AN URBAN EPIDEMIC—DAR ES SALAAM, TANZANIA, 2016

Lindsey S. McCrickard¹, Amani Elibariki Massay², Rupa Narra¹, Janneth Mghamba³, Ahmed Abade Mohamed⁴, Rogath Saika Kishimba², Loveness John Urio⁴, Neema Rusibayamila³, Grace Magembe⁵, Muhammad Bakari³, James J. Gibson⁶, Robert E. Quick¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Tanzania Field Epidemiology and Laboratory Training Program and Ministry of Health, Community Development, Gender, Elderly and Children, Dar es Salaam, United Republic of Tanzania, ³Ministry of Health, Community Development, Gender, Elderly and Children, Dar es Salaam, United Republic of Tanzania, ⁴Tanzania Field Epidemiology and Laboratory Training Program, Dar es Salaam, United Republic of Tanzania, ⁵DSM Regional Secretariat, Dar es Salaam, United Republic of Tanzania, ⁶Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania

8:30 a.m.

10

THE PLASMA AND MUCOSAL ANTIBODY RESPONSE TO THE COMPLETE VIBRIO CHOLERA O1 PROTEIN IMMUNOME AND O-SPECIFIC POLYSACCHARIDE IN ADULTS WITH INABA OR OGAWA CHOLERA IN BANGLADESH

Richelle C. Charles¹, Rie Nakajima², Li Liang², Amanda Berger¹, Daniel T. Leung³, Meagan Kelly¹, Peng Xu⁴, Pavol Kovac⁴, Fahima Chowdhury⁵, Ashraf I. Khan⁵, Stephen B. Calderwood¹, Taufiqur Rahman Bhuiyan⁵, Jason B. Harris¹, Philip L. Felgner², Firdausi Qadri⁵, Edward T. Ryan¹

¹Massachusetts General Hospital, Boston, MA, United States, ²University of California Irvine, Irvine, CA, United States, ³University of Utah School of Medicine, Salt Lake City, UT, United States, ⁴National Institutes of Health, Bethesda, MD, United States, ⁵International Centre of Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

Monday
November 14

8:45 a.m.

11

THE EARLY B CELL RESPONSE TO THE *VIBRIO CHOLERA* O1 ANTIGEN IS CHARACTERIZED BY A HIGH DEGREE OF CLONALITY, SOMATIC HYPERMUTATION AND RECALL OF PRIOR ANTIGEN EXPOSURE

Jason B. Harris¹, Robert Kauffman², Taufiqur Bhuiyan³, Leslie Mayo-Smith¹, Rasheduzzaman Rashu³, Rie Nakajima⁴, Fahima Chowdhury³, Ashraf Kahn³, Regina LaRocque¹, Richelle Charles¹, Stephen Calderwood¹, Edward Ryan¹, Phillip Felgner⁴, Firdausi Qadri³, Jens Wrämmert²

¹Massachusetts General Hospital, Boston, MA, United States, ²Emory University, Atlanta, GA, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴University of California Irvine, Irvine, CA, United States

9 a.m.

12

IMMUNE RESPONSE TO ORAL CHOLERA VACCINE (SHANCHOL) IN INTERNALLY DISPLACED PERSONS IN SOUTH SUDAN

Anita S. Iyer¹, Malika Bouhenia², John Rumunu³, Abdinasir Abubakar², Randon Gruninger¹, Jane Pita³, Richard Laku³, Lul Deng³, Joseph F. Wamala², Edward T. Ryan⁴, Stephen Martin⁵, Dominique Legros⁵, Justin Lessler⁶, David Sack⁷, Francisco J. Luquero⁸, Daniel T. Leung⁹, Andrew S. Azman⁸

¹Division of Infectious Diseases, Department of Internal Medicine, University of Utah, Salt Lake City, UT, United States, ²World Health Organization, Juba, South Sudan, ³Republic of South Sudan Ministry of Health, Juba, South Sudan, ⁴Department of Immunology and Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, ⁵World Health Organization, Geneva, Switzerland, ⁶Department of Epidemiology, Johns Hopkins University, Baltimore, MD, United States, ⁷Department of International Health, Johns Hopkins University, Baltimore, MD, United States, ⁸Epicenter, Paris, France, ⁹Division of Infectious Diseases, Department of Internal Medicine, Division of Microbiology and Immunology, Department of Pathology, University of Utah, Salt Lake City, UT, United States

9:15 a.m.

13

THE EFFECTIVENESS OF ONE DOSE OF ORAL CHOLERA VACCINE IN RESPONSE TO AN OUTBREAK

Andrew S. Azman¹, Lucy A. Parker², John Rumunu³, Fisseha Tadesse⁴, Francesco Grandesso⁴, Lul L. Deng³, Richard Lako³, Bior K. Bior³, Anne-Laure Page⁴, Michael Lasuba³, Lameck Ontweka⁵, Augusto Llosa⁴, Sandra Cohuet⁴, Lorenzo Pezzoli⁶, Dossou Vincent Sodjinou⁷, Abdinasir Abubakar⁸, Amanda K. Debes¹, Allan M. Mpairwe⁹, Joseph F. Wamala⁹, Christine Jamet¹⁰, Justin Lessler¹, David A. Sack¹, Marie-Laure Quilici¹¹, Iza Ciglencek¹⁰, Francisco J. Luquero⁴

¹Johns Hopkins School of Public Health, Baltimore, MD, United States, ²CIBER Epidemiología y Salud Pública, Universidad Miguel Hernández, Alicante, Spain, ³Ministry of Health, Juba, South Sudan, ⁴Epicentre, Paris, France, ⁵AMREF, Juba, South Sudan, ⁶World Health Organization, Geneva, Switzerland, ⁷World Health Organization, Brazzaville, Republic of the Congo, ⁸World Health Organization, Cairo, Egypt, ⁹World Health Organization, Juba, South Sudan, ¹⁰Médecins Sans Frontières, Geneva, Switzerland, ¹¹Institut Pasteur, Paris, France

9:30 a.m.

14

ORAL CHOLERA VACCINE STUDIES IN HIGH CHOLERA ENDEMIC SETTINGS IN BANGLADESH

Firdausi Qadri

International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

Symposium 4

CRISP/Cas Gene Drive Technologies for Vector Control

Marriott - Marquis B

Monday, November 14, 8 a.m. - 9:45 a.m.

Vector-borne diseases represent a major global health challenge. They undermine the health as well as the social and economic development of the most vulnerable and resource-poor regions of the world. In spite of the remarkable progress achieved in the recent years in reducing the burden of malaria, dengue and yellow fever, the perspective of eradicating these diseases is considered beyond reach in the foreseeable future. The lack of sufficient resources, the emergence of insecticide-resistant vectors and drug-resistant parasites, and the uncertainty of sustained political and economical commitment conjure against the implementation of effective disease eradication solutions. Innovations in gene drive technology offer now the possibility to develop a new generation of powerful genetic vector control tools that may change this scenario. While mosquitoes genetically engineered to interfere with the ability to transmit diseases or to impair the reproductive capability have been available for a while, the spread of the genetic modifications to wild type populations has represented a daunting challenge. Recently the CRISP/Cas system, a nuclease that can be programmed to target virtually any genomic sequence with unprecedented flexibility, has been adapted to develop efficient synthetic genetic drive in mosquitoes that can permanently alter entire species. CRISPR drive mosquitoes engineered to spread modifications altering either vector capability or reproductive capability may soon be field-ready for population replacement and population suppression strategies respectively. Key challenges concern the identification of the most effective gene drive strategy in term of risk benefits, the definition of a regulatory roadmap to bridge scientific progress with deployment and the forecast of consequences. This symposium will provide the needed exposure to gene drive technologies for vector control and stimulate discussion around key scientific, social and regulatory gaps. The symposium will focus specifically on understanding how the technology can be used to develop different vector strategies and equally importantly on identifying social, safety and ethical implications of editing mosquito species for vector control.

CHAIR

Andrea Crisanti

Imperial College London, London, United Kingdom

Kevin Esvelt

Massachusetts Institute of Technology, Cambridge, MA, United States

8 a.m.

LA ZANZARA VITRUVIANO, SYNTHETIC BIOLOGY AND MALARIA

Anthony A. James

University of California Irvine, Irvine, CA, United States

8:20 a.m.

CRIP/CAS GENE DRIVE FOR SUPPRESSING MOSQUITO VECTOR POPULATION

Andrea Crisanti

Imperial College London, London, United Kingdom

8:40 a.m.

MOSQUITO GENE DRIVE IN THE CONTEST OF INTEGRATE VECTOR MANAGEMENT

Steve Lindsay

University of Durham, Durham, United Kingdom

9 a.m.

THE REGULATORY AND SOCIAL CHALLENGES OF GENE DRIVE DEPLOYMENT STRATEGIES FOR ACCELERATING THE TIMETABLE IN AN ETHICAL MANNER

Megan J. Palmer

Stanford University, Stanford, CA, United States

Scientific Session 5

Malaria: Epidemiology I - Intervention Studies and Evaluation

Marriott - Marquis C

Monday, November 14, 8 a.m. - 9:45 a.m.

CHAIR

Amadou Barry

Malaria Research and Training Center, University of Bamako, Bamako, Mali

S. Patrick Kachur

Centers for Disease Control and Prevention, Atlanta, GA, United States

8 a.m.

Presentation by Burroughs Wellcome Fund-ASTMH Fellowship Recipient **15**

EVIDENCE TO OPTIMIZE THE DESIGN OF SCHOOL-BASED INTERVENTIONS AGAINST MALARIA

Lauren M. Cohee¹, Clarissa Valim², Jenna E. Coalson³, Sarah Schaffer DeRoo⁴, Moses Chilombe⁵, Karl Seydel⁶, Don Mathana⁵, Terrie E. Taylor⁶, Mark L. Wilson³, Miriam K. Laufer¹

¹University of Maryland Baltimore, Baltimore, MD, United States, ²Harvard School of Public Health, Boston, MA, United States, ³University of Michigan School of Public Health, Ann Arbor, MI, United States, ⁴University of Maryland School of Medicine, Baltimore, MD, United States, ⁵Malaria Alert Center, Blantyre, Malawi, ⁶Blantyre Malaria Project, Blantyre, Malawi

8:15 a.m.

16

EVALUATION OF A PRIMARY SCHOOL-BASED MALARIA CASE MANAGEMENT PROGRAM ON SCHOOL ATTENDANCE IN SOUTHERN MALAWI

Stefan Witek-McManus¹, Katherine E. Halliday¹, Charles Opondo¹, Austin Mtali², Elizabeth Allen¹, Andy Bauleni³, Saidi Ndau⁴, Emmanuel Phondiwa⁵, Doreen Ali⁶, Virginia Kachigunda⁷, John Sande⁶, Allison Verney², Tiyese Chimuna⁸, David Melody⁶, Helen Moestue⁹, Natalie Roschnik⁹, Simon J. Brooker¹, Don P. Mathanga³

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Save the Children International, Zomba, Malawi, ³Malaria Alert Centre, College of Medicine, University of Malawi, Blantyre, Malawi, ⁴District Health Office, Zomba, Malawi, ⁵District Education Office, Zomba, Malawi, ⁶National Malaria Control Programme, Ministry of Health, Lilongwe, Malawi, ⁷Department of School Health, Nutrition, HIV and AIDS, Ministry of Education, Science and Technology, Lilongwe, Malawi, ⁸Save the Children International, Lilongwe, Malawi, ⁹Save the Children USA, Washington, DC, United States

8:30 a.m.

17

FACILITY-BASED ENHANCED MALARIA SURVEILLANCE TO MEASURE VECTOR-CONTROL INTERVENTION IMPACT IN WESTERN KENYA, 2012-2015

Nabie Bayoh¹, Elizabeth Marube², Maurice Ombok², Peter Ouma², Simon

Kariuki², Rebecca Kiptui³, Christine Hershey⁴, Jessica Butts⁵, Meghna Desai⁶, Anthony Fiore⁵, John Gimnig⁵, John Williamson⁵, Ann M. Buff⁶

¹Centers for Disease Control and Prevention, Kisumu, Kenya, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Ministry of Health, Nairobi, Kenya, ⁴United States Agency for International Development, Washington, DC, United States, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁶Centers for Disease Control and Prevention, Nairobi, Kenya

8:45 a.m.

18

COMPARISON OF THREE VERSUS FOUR ROUNDS OF SEASONAL MALARIA CHEMOPREVENTION ON THE INCIDENCE OF CLINICAL MALARIA IN MALI

Amadou Barry¹, Djibrilla Issiaka¹, Tiangua Traore¹, Daouda Kone¹, Boubacar Diarra², Diakaridia Kone³, Issaka Sagara¹, Erin Gabriel⁴, Ogobara Doumbo¹, Patrick Duffy⁵, Fried Michal⁶, Alassane Dicko¹

¹Malaria Research and Training Center, Bamako, Mali, ²Centre de Santé de Référence de Ouelessebouyou, Ouelessebouyou, Mali, ³Programme National de Lutte contre le Paludisme, Bamako, Mali, ⁴Biostatistical Research Branch, National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ⁵Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States

9 a.m.

19

SUBPATENT MALARIA INFECTION IS NOT ASSOCIATED WITH POOR BIRTH OUTCOMES IN KENYAN WOMEN RECEIVING INTERMITTENT SCREENING AND TREATMENT OR INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN PREGNANCY

Julie Gutman¹, JoAnne L'lanziva², Kephass Otieno³, John Williamson⁴, Simon Kariuki³, Peter Ouma³, Vincent Were³, Feiko O. ter Kuile⁵, Meghna Desai¹

¹Malaria Branch, Division of Parasitic Diseases and Malaria, US Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Nairobi, Kenya, ³Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya, ⁴Malaria Branch, Division of Parasitic Diseases and Malaria, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9:15 a.m.

20

IGNORING PEOPLE 'WHO ARE NOT THERE' MAY MITIGATE SUCCESS OF MASS DRUG ADMINISTRATION FOR MALARIA: FINDINGS FROM A MIXED-METHOD STUDY IN THE GAMBIA

Katja Siling¹, Susan Dierickx², Julia Mwesigwa³, Umberto D'Alessandro³, Koen Peeters Grietens¹

¹Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ²Amsterdam Institute of Social Science Research, Amsterdam, Netherlands, ³Medical Research Council Unit, Fajara, Gambia

9:30 a.m.

21

COST-EFFECTIVENESS OF FOCAL MASS DRUG ADMINISTRATION AND MASS DRUG ADMINISTRATION WITH DIHYDROARTEMISININ-PIPERAQUINE FOR MALARIA PREVENTION IN SOUTHERN PROVINCE, ZAMBIA: RESULTS OF A COMMUNITY RANDOMIZED CONTROL TRIAL

Joshua O. Yukich¹, Callie Scott², Kafula Silumbe³, Bruce Larson⁴, Adam Bennett⁵, Timothy Finn¹, Travis Porter¹, Joseph Keating¹, Thomas P. Eisele¹, Richard W. Steketee², John M. Miller³

¹Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²PATH/MACEPA, Seattle, WA, United States, ³PATH/MACEPA, Lusaka, Zambia, ⁴Boston University, Boston, MA, United States, ⁵University of California San Francisco, San Francisco, CA, United States

Scientific Session 6

Malaria: Drug Development - Preclinical to Clinical Trials

Marriott - Marquis D

Monday, November 14, 8 a.m. - 9:45 a.m.

CHAIR

Eamon Comer

Broad Institute, Cambridge, MA, United States

James S. McCarthy

QIMR Berghofer Medical Research Institute, Herston, Australia

8 a.m.

22

DISCOVERY AND DEVELOPMENT OF A MULTISTAGE ANTIMALARIAL WITH NEW MECHANISM OF ACTION USING NEXT GENERATION SYNTHESIS

Eamon Comer¹, Nobutaka Kato¹, Micah Maetani¹, Tomoyo Sakata Kato², Amanda K. Lukens², Marshall Morningstar¹, Elizabeth A. Winzeler³, Christina A. Scherer¹, Dyann F. Wirth², Stuart Schreiber¹

¹Broad Institute, Cambridge, MA, United States, ²Harvard T.H. Chan School of Public Health, Boston, MA, United States, ³University of California San Diego, La Jolla, CA, United States

8:15 a.m.

23

TARGETING RESISTANCE: EXPLOITING EVOLUTION IN DRUG DISCOVERY

Tomoyo Sakata-Kato¹, Leila S. Ross¹, Maria Jose Lafuente-Monasterio², Francisco-Javier Gamo², Dyann F. Wirth¹, Amanda K. Lukens³

¹Harvard T. H. Chan School of Public Health, Boston, MA, United States, ²GlaxoSmithKline, Tres Cantos, Spain, ³The Broad Institute, Cambridge, MA, United States

8:30 a.m.

24

A NEW BENZOXABOROLE WITH AN APPARENT NOVEL MECHANISM OF ACTION AGAINST *P. FALCIPARUM*

Kirithana Mysore Vasudevarao Sindhe¹, Ebere Sonoiki¹, Denghui Guo¹, Jiri Gut¹, Jenny Legac¹, Yen Tran², Yong-Kang Zhang², Pamela Berry², Vic Ciaravino², Francisco-Javier Gamo³, Laura Sanz³, Eric E. Easom², Joseph L. DeRisi¹, Jacob J. Plattner², Yvonne R. Freund², Philip J. Rosenthal¹

¹University of California San Francisco, San Francisco, CA, United States, ²Anacor Pharmaceuticals, Inc., Palo Alto, CA, United States, ³GlaxoSmithKline, Inc., Tres Cantos, Spain

8:45 a.m.

25

NOVEL CLINICAL STUDY AND PHARMACOMETRIC MODELLING TO FIND THE MINIMUM INHIBITORY CONCENTRATION (MIC) OF A NEW ANTIMALARIAL

Joel Tarning¹, Tran Tinh Hien², Nicholas J. White¹, Nguyen Thanh Thuy Nhien³, Nhu Thi Hoa³, Phung Duc Thuan³, Nguyen Thanh Tong³, Huynh Thi Thuy Van³, Francois Nosten⁴, Baldur Magnusson⁵, Jay Prakash Jain⁶, Micha Levi⁷, Kamal Hamed⁷

¹Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, ²Centre for Tropical Medicine and Global Health, Nuffield Department of Clinical Medicine, University of Oxford, Oxford, United Kingdom, ³Oxford University Clinical Research Unit - Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ⁴Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ⁵Novartis Pharma AG, Basel, Switzerland, ⁶Novartis Healthcare Pvt. Ltd., Hyderabad, India, ⁷Novartis Pharmaceuticals Corporation, East Hanover, NJ, United States

9 a.m.

26

ASSESSING THE SPEED OF CLEARANCE OF *PLASMODIUM VIVAX* FROM THE BLOOD FOLLOWING TREATMENT WITH A LICENSED AND EXPERIMENTAL ANTIMALARIALS

James S. McCarthy¹, Louise Marquart¹, John Woodford¹, Paul Griffin², Joerg Moehrle³

¹QIMR Berghofer Medical Research Institute, Herston, Australia, ²Q-Pharm, Herston, Australia, ³Medicines for Malaria, Geneva, Switzerland

9:15 a.m.

27

FOSMIDOMYCIN-PIPERAQUINE AS NON-ARTEMISININ-BASED COMBINATION THERAPY FOR ACUTE UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA

Ghyslain Mombo-Ngoma¹, Jonathan Remppis¹, Moritz Sievers¹, Rella Zoleko Manego¹, Lilian Endamne¹, Bertrand Lell¹, David Hutchinson², Peter G. Kremsner¹

¹Centre de Recherches Medicales de Lambaréné (CERME), Lambaréné, Gabon, ²Jomaa Pharma GmbH, Hamburg, Germany

9:30 a.m.

28

MALARIA, MALNUTRITION, AND ADVERSE BIRTH OUTCOMES AMONG PREGNANT WOMEN: A POOLED ANALYSIS

Jordan Cates¹, Holger W. Unger², Valerie Briand³, Nadine Fievet³, Innocent Valea⁴, Halidou Tinto⁴, Umberto d'Alessandro⁵, Sarah H. Landis⁶, Seth Adu-Afarwuah⁷, Kathryn G. Dewey⁸, Feiko Ter Kuile⁹, Meghna Desai¹⁰, Stephanie Dellicour⁹, Peter Ouma¹¹, Julie Gutman¹⁰, Martina Oneko¹¹, Laurence Slutsker¹⁰, Dianne J. Terlouw¹², Simon Kariuki¹¹, John Ayisi¹¹, Mwayi Madanitsa¹³, Linda Kalilani-Phiri¹³, Per Ashorn¹⁴, Kenneth Maleta¹³, Ivo Mueller¹⁵, Danielle Stanicic¹⁶, Christentze Schmiegelow¹⁷, John Lusingu¹⁷, Anna Maria van Eijk⁹, Melissa Bauserman¹, Linda Adair¹, Steve Cole¹, Steven Meshnick¹, Daniel Westreich¹, Stephen Rogerson¹⁸

¹University of North Carolina-Chapel Hill, Chapel Hill, NC, United States, ²Edinburgh Royal Infirmary, Edinburgh, United Kingdom, ³Mère et enfant face aux infections tropicales (UMR216), Paris, France, ⁴Institut de Recherche en Sciences de la Santé-DRO, Bobo-Dioulasso, Burkina Faso, ⁵Medical Research Council Unit, Serrekunda, Gambia, ⁶GlaxoSmithKline, Uxbridge, United Kingdom, ⁷University of Ghana, Accra, Ghana, ⁸University of California, Davis, CA, United States, ⁹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ¹⁰Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, ¹¹Kenya Medical Research Institute (KEMRI)/Centre for Global Health Research, Kisumu, Kenya, ¹²Malawi-Liverpool-Wellcome Trust Clinical Research Programme Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ¹³University of Malawi, Blantyre, Malawi, ¹⁴University of Tampere and Tampere University Hospital, Tampere, Finland, ¹⁵Walter and Eliza Hall Institute, Parkville, Australia, ¹⁶Griffith University, Gold Coast, Australia, ¹⁷University of Copenhagen, Copenhagen, Denmark, ¹⁸The University of Melbourne, Parkville, Australia

Symposium 7

The Influence of Behavior and Culture within WASH Interventions and Environmental Disease Transmission

Marriott - Room M103/M104/M105

Monday, November 14, 8 a.m. - 9:45 a.m.

To appropriately characterize infectious disease transmission, it is paramount to understand social and behavioral dynamics at both the individual and community levels. Indeed, health behavior theory emphasizes that an individual's behaviors is influenced by his or her own demographic factors and also by social processes. Yet, despite several available conceptual frameworks that provide important context for environmental pathogen transmission and social/behavioral processes, only recently has infectious disease literature provided examples of

the role that social context plays within pathogen transmission. Such literature is critical for understanding underlying drivers of transmission dynamics and also for developing and implementing holistic health interventions. This symposium draws from work in emerging pathogen and enteric pathogen transmission dynamics that incorporate environment as well as human behavior.

CHAIR

Velma Lopez

University of Michigan School of Public Health, Ann Arbor, MI, United States

Sonia Hegde

University of Michigan School of Public Health, Ann Arbor, MI, United States

8 a.m.

THE CULTURAL ANTHROPOLOGICAL CONTRIBUTION TO WASH BENEFITS INTERVENTIONS

Stephen Luby

Centers for Disease Control and Prevention, Atlanta, GA, United States

8:25 a.m.

BEHAVIOR, SOCIAL STRUCTURE AND INFECTIOUS DISEASE TRANSMISSION

James Jones

Stanford University, Stanford, CA, United States

8:50 a.m.

UNDERSTANDING SOCIAL NORMS OF HANDWASHING

Pavani Ram

Centers for Disease Control and Prevention, Atlanta, GA, United States

9:15 a.m.

SOCIAL, CULTURAL AND BEHAVIORAL CORRELATES OF HOUSEHOLD WATER TREATMENT AND STORAGE

Maria-Elena Figueroa

Johns Hopkins University, Baltimore, MD, United States

Symposium 8

CadMIA and CHAMPS: Pathways towards Defining Preventable Causes of Death in Children in High Mortality Areas via Minimally Invasive Tissue Sampling (MITS)

Marriott - Atrium A

Monday, November 14, 8 a.m. - 9:45 a.m.

Nearly six million children under five years old die each year, with the vast majority in sub-Saharan Africa and South Asia. New sustainable development goals are calling for dramatic reduction of childhood mortality by 2030, and the end to all preventable deaths in children. To achieve these goals, detailed understanding of the causes of deaths among neonates, infants and older children are required so limited resources can optimally target diseases associated with greatest mortality. Current data about child mortality are hampered by the need for extrapolation and modeling from datasets with limited clinical and diagnostic information. The Cause of Death and Minimally Invasive Autopsies (CaDMIA) project and the Child Health and Mortality Prevention Surveillance (CHAMPS) Network, both funded by the Bill & Melinda Gates Foundation, are synergistic projects designed to yield high-quality evidence on mortality burden, and to drive action to reduce preventable child deaths. CaDMIA has investigated whether collecting post-mortem

tissues through a non-disfiguring, rapid technique – originally called “minimally invasive autopsy” (MIA) and now termed “minimally invasive tissue sampling” (MITS) – is comparable to the gold-standard technique of conventional diagnostic autopsy (CDA) for determining cause of death. CADMIA also explored the theoretical acceptability of the minimally invasive technique to probe child deaths using social behavioral science methods across a wide variety of stakeholders in Mozambique, Mali, Kenya, Pakistan, and Gabon. CHAMPS will combine social behavioral science and community engagement, a variety of surveillance techniques, strengthened diagnostic and pathology capacity, and MITS to define causes of neonatal, infant and under-five mortality in six sites in sub-Saharan Africa and South Asia. The ultimate vision is for CHAMPS to establish a network of 20 surveillance sites over 20 years that will produce and make available a wide range of primary data and routine analyses regarding the spectrum of causes of child mortality. This symposium will focus on the use of minimally invasive tissue sampling techniques to determine cause of death in settings with high child mortality. The objectives of this symposium are: 1) to describe shortcomings in existing methods to determine the burden of global child mortality, and surveillance approaches to remedy this deficit; 2) demonstrate feasibility and acceptability of minimally invasive techniques with respect to complete diagnostic autopsies, from the perspective of histopathology, microbiology, and social behavioral science; 3) describe early findings from CHAMPS pilot on pediatric deaths in South Africa, and 4) discuss strategies for how CHAMPS surveillance data may be analyzed and used for mortality prevention.

CHAIR

Robert Breiman

Emory Global Health Institute, Atlanta, GA, United States

Clara Menendez

Barcelona Institute for Global Health (ISGlobal)/Hospital Clinic-University of Barcelona, Barcelona, Spain

8 a.m.

SHORTCOMINGS OF EXISTING METHODS TO DETERMINE GLOBAL MORTALITY BURDEN—RATIONALE FOR NEW POST-MORTEM METHODS

Quique Bassat

Barcelona Institute for Global Health (ISGlobal)/Hospital Clinic-University of Barcelona, Barcelona, Spain

8:20 a.m.

VALIDATION OF A MINIMALLY INVASIVE TISSUE SAMPLING (MITS) PROTOCOL COMPARED WITH FULL AUTOPSY: EVIDENCE FROM CADMIA

Jaume Ordi

Barcelona Institute for Global Health (ISGlobal)/Hospital Clinic-University of Barcelona, Barcelona, Spain

8:40 a.m.

FEASIBILITY AND ACCEPTABILITY OF POST-MORTEM STUDIES USING MITS: RESULTS FROM CADMIA AND RELEVANCE TO ENGAGING COMMUNITIES IN CHAMPS MORTALITY SURVEILLANCE

Khatia Munguambe

Manhiça Health Research Center (CISM) and Eduardo Mondlane University, Mozambique, Maputo, Mozambique

9 a.m.

A GLIMPSE INTO CAUSES OF NEONATAL, INFANT AND CHILD DEATHS AND STILLBIRTHS: FINDINGS FROM A CHAMPS PILOT STUDY IN SOUTH AFRICA

Susan Nzenze

University of Witwatersrand, Johannesburg, South Africa

9:20 a.m.

CHILD MORTALITY SURVEILLANCE METHODS USING MITs: FROM ANALYSIS TO ACTION

Pratima Raghunathan

Emory University and Centers for Disease Control and Prevention, Atlanta, GA, United States

Symposium 9

Zika Virus: Public Health Response and Disease Manifestations

Marriott - Atrium B

Monday, November 14, 8 a.m. - 9:45 a.m.

With the recent spread of ZIKV virus throughout the Americas and the novel clinical presentation of birth-defects and Guillain-Barre Syndrome that have been linked to the spread of the virus, it has been critical from a public health perspective to fully understand the associations between virus infection and adverse outcomes. Public health officials have worked swiftly over the past year to assess how the virus might be associated with these clinical syndromes and how frequently they occur in population, cohort, and case-control studies. This session will address the findings of these investigations and the implications for public health response and control efforts.

CHAIR

Stephen Higgs

Kansas State University, Biosecurity Research Institute, Manhattan, KS, United States

Ann Powers

Centers for Disease Control and Prevention, Fort Collins, CO, United States

8 a.m.

HISTORY OF THE ZIKA VIRUS

Ann Powers

Centers for Disease Control and Prevention, Fort Collins, CO, United States

8:15 a.m.

OUTBREAKS OF ZIKV IN ISLAND COMMUNITIES

Thane Hancock

Centers for Disease Control and Prevention, Mangilao, Guam

8:35 a.m.

ADVERSE PREGNANCY AND INFANT OUTCOMES ASSOCIATED WITH MATERNAL ZIKV INFECTION

Peggy Honein

Centers for Disease Control and Prevention, Atlanta, GA, United States

8:55 a.m.

EPIDEMIC OF MICROCEPHALY IN BRAZIL AND LINK WITH CONGENITAL ZIKA SYNDROME

Albert Ko

Yale School of Public Health, New Haven, CT, United States

9:15 a.m.

ROLE OF ZIKV IN THE DEVELOPMENT OF GUILLAIN-BARRE SYNDROME

James J. Sejvar

Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 10

Cestodes: Cysticercosis and Echinococcosis

Marriott - Room A601

Monday, November 14, 8 a.m. - 9:45 a.m.

CHAIR

Veronique Dermauw

Institute of Tropical Medicine, Antwerp, Belgium

Theodore E. Nash

National Institutes of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

8 a.m.

29

ASSESSING ULTRASONOGRAPHY AS A DIAGNOSTIC TOOL FOR PORCINE CYSTICERCOSIS

Robert H. Flecker¹, Saul Santivanéz², Ian Pray³, Viterbo Ayvar⁴, Claudio Muro⁴, Ricardo Gamboa⁴, Ruth Atto⁴, Luz Maria Moyano⁴, Armando E. Gonzalez⁵, Hector H. Garcia², Seth E. O'Neal⁶, for The Cysticercosis Working Group in Peru⁷

¹School of Public Health, Oregon Health & Sciences University and Portland State University, Portland, OR, United States, ²Center for Global Health, Universidad Peruana Cayetano Heredia, Lima, Peru, ³Oregon Health and Sciences University, Portland, OR, United States, ⁴Center for Global Health, Universidad Peruana Cayetano Heredia, Tumbes, Peru, ⁵School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁶School of Public Health, Oregon Health and Sciences University and Portland State University, Portland, OR, United States, ⁷Universidad Peruana Cayetano Heredia, Lima, Peru

8:15 a.m.

30

VASCULAR LEAKAGE IN THE BRAIN IN PORCINE NEUROCYSTICERCOSIS IS ASSOCIATED WITH ANGIOGENESIS

Carla Cangalaya¹, Miguel Angel Orrego¹, Javier Mamani¹, Renzo Gutierrez-Loli¹, Carlota Roca¹, Armando E Gonzalez², HH Garcia³, Cristina Guerra-Giraldez¹, Siddhartha Mahanty⁴, Theodore Nash⁴, For the Cysticercosis Working Group in Peru

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Universidad Nacional Mayor de San Marcos, Lima, Peru, ³Unidad de Cisticercosis, Instituto Nacional de Ciencias Neurológicas, Lima, Peru, ⁴National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

8:30 a.m.

31

AMYLOID-BETA PEPTIDE AND EXPRESSION OF AMYLOID PRECURSOR PROTEIN GENE (APP) ARE INDUCED BY ANTHELMINTIC TREATMENT IN PORCINE NEUROCYSTICERCOSIS

Renzo Gutierrez-Loli¹, Carla Cangalaya¹, Miguel Angel Orrego¹, Hector Hugo Garcia², Siddhartha Mahanty³, Theodore Nash³, Cristina Guerra-Giraldez⁴, Cysticercosis Working Group in Peru

¹Laboratorio de Inmunopatología en Neurocisticercosis, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Unidad de Cisticercosis, Instituto Nacional de Ciencias Neurológicas Santo Toribio de Mogrovejo, Lima, Peru, ³Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁴Departamento de Ciencias Celulares y Moleculares, Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

8:45 a.m.

32

TAENIA SOLIUM CYSTICERCOSIS SEROCONVERSION AND SEROREVERSION CUMULATIVE INCIDENCE IN A LARGE-SCALE COMMUNITY TRIAL IN BURKINA FASO

Veronique Dermauw¹, H el ene Carabin², Rasman e Ganaba³, Assana Ciss e⁴, Sarah Gabri el¹, Z ekiba Tarnagda⁵, Pierre Dorny¹, Athanase Millogo⁶
¹Institute of Tropical Medicine, Antwerp, Belgium, ²University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ³AFRICSant e, Bobo Dioulasso, Burkina Faso, ⁴Institute of Research in Health Sciences, Bobo Dioulasso, Burkina Faso, ⁵Institute of Research in Health Sciences, Bobo Dioulasso, Belgium, ⁶University of Ouagadougou, Bobo Dioulasso, Belgium

9 a.m.

33

USE OF DIFFERENTIALLY EXPRESSED MONOCYTE GENES TO DISTINGUISH BETWEEN NEUROCYSTICERCOSIS-ASSOCIATED EPILEPSY AND IDIOPATHIC EPILEPSY

Vasuvedan Prabhakaran¹, Govindan Ramajayam¹, Josephine J. Babu¹, Anna Oommen², Douglas A. Drevets³, Anderson Michael³, Vedantam Rajshekhar¹, H el ene Carabin³
¹Christian Medical College, Vellore, India, ²Gudalur Adivasi Hospital, Gudalur, India, ³University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States

9:15 a.m.

34

VENTRICULAR NEUROCYSTICERCOSIS IN THE UNITED STATES: TREATMENT, COMPLICATIONS AND OUTCOME IN A TERTIARY REFERRAL CENTER

Theodore E. Nash, JeanAnne M. Ware, Siddhartha Mahanty
National Institutes of Health, Bethesda, MD, United States

9:30 a.m.

35

RISK FACTORS FOR SEIZURE RECURRENCE AFTER SUCCESSFUL ANTIPARASITIC TREATMENT IN PARENCHYMAL NEUROCYSTICERCOSIS

Kevin R. Duque¹, Javier A. Bustos¹, Isidro Gonzales¹, Herbert Saavedra², Javier Pretell³, Hector H. Garcia¹, for the Cysticercosis Working Group in Peru
¹Center of Global Health - Tumbes, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Cysticercosis Unit, National Institute of Neurological Science, Lima, Peru, ³Hospital Nacional Alberto Sabogal, Essalud, Callao, Peru

Scientific Session 11

Malaria: Biology and Pathogenesis

Marriott - Room A602

Monday, November 14, 8 a.m. - 9:45 a.m.

CHAIR

Andrea Conroy
Indiana University School of Medicine, Indianapolis, IN, United States

Miranda Oakley
Food and Drug Administration, Silver Spring, MD, United States

8 a.m.

36

FUNCTIONAL ANALYSIS OF DIVERGENT GPCR-LIKE PROTEINS DURING *PLASMODIUM CHABAUDI* BLOOD-STAGE DEVELOPMENT

Rachel Milne, Gabriella Lindergard, Wiebke Nahrendorf, Philip Spence, Joanne Thompson
Immunology and Infection Research, Edinburgh, United Kingdom

8:15 a.m.

37

A NOVEL POPULATION OF TCR   -EXPRESSING CD11BHIGHCD14+F4/80+ MACROPHAGES IS INDUCED BY *PLASMODIUM BERGHEI* ANKA MURINE MALARIA

Miranda Oakley, Joanna Chorazeczewski, Victoria Majam, Bhavna Chawla, Maya Aleshnick, Kazuyo Takeda, Adovi Akue, Mark KuKuruga, Sanjai Kumar
Food and Drug Administration, Silver Spring, MD, United States

(ACMCIP Abstract)

8:30 a.m.

38

***PLASMODIUM FALCIPARUM* PHISTC PROTEINS ARE REQUIRED FOR ANTIGEN DELIVERY TO THE INFECTED ERYTHROCYTE SURFACE**

Deepali B. Ravel, Pierre-Yves Mantel, Kathleen W. Dantzer, William C. Beyer, Nicolas M. Brancucci, Manoj T. Duraisingh, Matthias Marti
Harvard School of Public Health, Boston, MA, United States

(ACMCIP Abstract)

8:45 a.m.

39

EXPLORING THE ROLE OF *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN 1 IN INVASION OF DUFFY-NULL AFRICANS

Karthigayan Gunalan¹, Eugenia Lo², Jessica B. Hostetler³, Delenasaw Yewhalaw⁴, Jianbing Mu³, Daniel E. Neafsey⁵, Guiyun Yan², Louis H. Miller¹
¹National Institute of Health, Rockville, MD, United States, ²Program in Public Health, College of Health Sciences, University of California, Irvine, CA, United States, ³National Institutes of Health, Rockville, MD, United States, ⁴Department of Medical Laboratory Sciences and Pathology, College of Health Sciences, Jimma University, Jimma, Ethiopia, ⁵Broad Institute of Massachusetts Institute of Technology and Harvard, Cambridge, MA, United States

9 a.m.

40

GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY PREVALENCE: GENETIC VARIANTS AND THEIR INFLUENCE ON HEMOLYTIC EFFECT IN MALARIA ENDEMIC AREAS OF COLOMBIA

Sonia M. Herrera¹, Iv an Dario Ocampo¹, Maria Isabel Arce¹, Alberto Alzate¹, Judith Recht², Julio Padilla³, Pablo Chaparro⁴, Myriam Ar evalo Herrera⁵
¹Caucaseco Scientific Research Center/Centro Latino Americano de Investigaci on en Malaria (CLAIM), Cali, Colombia, ²Caucaseco Scientific Research Center, Cali, Colombia, ³Instituto Nacional de Salud, Bogot a, Colombia, ⁴Ministerio de Salud y Protecci on Social, Bogot a, Colombia, ⁵Caucaseco Scientific Research Center/ Universidad del Valle, Cali, Colombia

9:15 a.m.

41

ACUTE KIDNEY INJURY IS COMMON IN UGANDAN CHILDREN WITH SEVERE MALARIA, AND STRONGLY ASSOCIATED WITH SEQUESTERED PARASITE BIOMASS AND MORTALITY

Andrea L. Conroy¹, Robert O. Opoka², Paul Bangirana², Chandy C. John¹
¹Indiana University School of Medicine, Indianapolis, IN, United States, ²Makerere University College of Health Sciences, Kampala, Uganda

(ACMCIP Abstract)

9:30 a.m.

42

PFHRP2 PERSISTENCE IN « ONCE INFECTED RBC » ENABLES A RAPID PREDICTION OF POST-ARTESUNATE DELAYED HEMOLYSIS

Papa Alioune Ndiour¹, Sébastien Larréché², Oussama Mouri³, Nicolas Argy⁴, Camille Roussel¹, Stéphane Jauréguiberry³, Claire Perillaud⁵, Dominique Langui⁶, Sylvestre Biligui³, Nathalie Chartrel³, Audrey Mérens², Arjen Dondorp⁷, Sandrine Houzé⁴, Frédéric Gay⁵, Serge Bonnefoy⁸, Marc Thellier³, Charlie Woodrow⁹, Pierre Buffet¹, French Artesunate working group

¹National Institute of Blood Transfusion/Inserm U1134 - Paris 5 University, Paris, France, ²UF Bactériologie – Parasitologie – Mycologie, Hôpital d'instruction des armées Bégin, Paris, France, ³APHP Pitié-Salpêtrière - Centre National du Paludisme Pitié-Salpêtrière, Paris, France, ⁴APHP Bichat - Centre National du Paludisme Bichat, Paris, France, ⁵APHP Pitié-Salpêtrière, Paris, France, ⁶University Paris 6, Paris, France, ⁷MORU - Université d'oxford, Bangkok, Thailand, ⁸Institut Pasteur de Paris, Paris, France, ⁹MORU - Université d'oxford, Paris, Thailand

(ACMCIP Abstract)

Scientific Session 12

Mosquitoes: Operational Control

Marriott - Room A703/A704

Monday, November 14, 8 a.m. - 9:45 a.m.

CHAIR

Etienne M. Bilgo

Unité de Recherche Paludisme et Maladies Tropicales Négligées, IRSS/Centre Muraz, Bobo Dioulasso, Burkina Faso

Haripriya Mukundarajan

Stanford University, Stanford, CA, United States

8 a.m.

43

EVALUATE MOSQUITO NETS FASTER AND CHEAPER: RESULTS FOR PUBLIC HEALTH INTEREST

Sanjiazaha Randriamaherijaona¹, Thomas Kesteman¹, Emilie Pothin², Mickael Green³, Ray Beach³, Sebastien Boyer¹

¹Institut Pasteur de Madagascar, Antananarivo, Madagascar, ²Swiss Tropical and Public Health Institute, Basel, Switzerland, ³Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

8:15 a.m.

44

INTERROGATING MOSQUITO-PATHOGEN COMMUNITIES USING HIGH-THROUGHPUT MICROFLUIDICS

Felix J. Hol, Haripriya Mukundarajan, Manu Prakash

Stanford University, Stanford, CA, United States

8:30 a.m.

45

A PROMISING NEW MODE OF ACTION CHEMISTRY INDOOR RESIDUAL SPRAY PRODUCT TO CONTROL RESISTANT MOSQUITOES

John Lucas¹, John Invest¹, Takao Ishiwatari², Yoshihiro Takebayashi², Kazunori Ohashi², Edi Constant³, Mouhamadou Chouaibou³, Benjamin Koudu³, David Malone⁴, Pie Muller⁵

¹Sumitomo Chemical Company Ltd, London, United Kingdom, ²Sumitomo Chemical Company Ltd, Tokyo, Japan, ³Centre Suisse de Recherches Scientifiques, Abidjan, Côte D'Ivoire, ⁴Innovative Vector Control Consortium, Liverpool, United Kingdom, ⁵Swiss Tropical and Public Health Institute and University of Basel, Basel, Switzerland

8:45 a.m.

46

SHAZAM FOR MOSQUITOES: CROWDSOURCING VECTOR SURVEILLANCE BY USING MOBILE PHONES AS ACOUSTIC SENSORS

Haripriya Mukundarajan, Felix J. Hol, Erica A. Castillo, Cooper Newby, Manu Prakash

Stanford University, Stanford, CA, United States

9 a.m.

47

AUTOCIDAL MOSQUITO CONTROL: ALLOWING MOSQUITOES TO HELP US WITH OUR WORK

Stephen L. Dobson¹, Corey Brelsfoard², James Mains²

¹University of Kentucky, Lexington, KY, United States, ²MosquitoMate, Inc., Lexington, KY, United States

9:15 a.m.

48

TRANSGENIC INSECT KILLING FUNGUS BETTER KILLS INSECTICIDE-RESISTANT, MALARIA-VECTOR MOSQUITOES

Etienne M. Bilgo¹, Brian Richard Lovett², Raymond St.Leger², Roch K. Dabiré¹, Antoine Sanon³, Abdoulaye Diabaté¹

¹IRSS/Centre Muraz, Bobo Dioulasso, Burkina Faso, ²University of Maryland College Park, College Park, MD, United States, ³Université de Ouagadougou, Ouagadougou, Burkina Faso

9:30 a.m.

49

COMPARING THE EFFICACY OF INSECTICIDE MIXTURE AND COMBINATION STRATEGIES FOR IMPROVED CONTROL AND MANAGEMENT OF PYRETHROID RESISTANT MALARIA VECTORS IN SOUTHERN BENIN, WEST AFRICA

Corine Ngufor¹, Jessica Critchley¹, Raphael N'Guessan¹, Martin Akogbeto², Mark Rowland¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

Symposium 13

Hot Topics in Leishmaniasis

Marriott - Room A706/A707

Monday, November 14, 8 a.m. - 9:45 a.m.

This symposium updates the audience on exciting new areas of investigation in the tropical neglected disease, leishmaniasis. First, the *Leishmania* RNA virus (LRV1) and its association with both metastatic infection and treatment failure in cutaneous leishmaniasis is explored. This is followed by review of recent Medecin Sans Frontieres' experience in clinical trials of treatment for visceral leishmaniasis, including the challenge of HIV co-infection. Next, the session will explore new advances in vaccines against leishmaniasis, focusing on the recent discovery of a parasite antigen, PEPC, that elicits cross-protection across *Leishmania* species. Lastly, the symposium will discuss the role of the sand fly saliva and its implications in leishmaniasis severity, including the new discovery of a family of sand fly salivary proteins that can attract neutrophils to the bite site, as a novel insect derived chemokine-like molecule.

CHAIR

Naomi E. Aronson

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Fabiano Oliveira

National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

8 a.m.

ENDOGENOUS RNA VIRUSES AS VIRULENCE FACTORS IN PARASITIC PROTOZOA

Stephen Beverley

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

8:25 a.m.

MSF FIELD RESEARCH EXPERIENCE IN VISCERAL LEISHMANIASIS - LESSONS LEARNED AND FUTURE CHALLENGES

Sakib Burza

Medecins Sans Frontieres, Spain, Barcelona, Spain

8:50 a.m.

A LEISHMANIASIS VACCINE BREAKTHROUGH? A BROADLY CONSERVED AND CROSS-SPECIES PROTECTIVE LEISHMANIA VACCINE CANDIDATE

Jude Uzonna

University of Manitoba, Winnipeg, MB, Canada

9:15 a.m.

NEUTROPHILS IN PERIL: HOW BITE-INOCULATED SAND FLY SALIVA SUBVERTS THE EARLY NEUTROPHIL RESPONSE IN THE SKIN WITH IMPLICATIONS FOR LEISHMANIA DISEASE OUTCOME

Fabiano Oliveira

National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

Special Interactive Experience: The Refugee Journey to Wellbeing

Marriott - Atrium Foyer

Monday, November 14, 9:30 a.m. - 7 p.m.

At the end of 2015, there were an estimated 65.3 million people displaced around the world, largely because of extended conflicts in the Middle East, Northern and sub-Saharan Africa, and Asia. The American Society of Tropical Medicine and Hygiene and the U.S. Centers for Disease Control and Prevention (CDC), with participation from a number of domestic and international partners, are hosting this unique interactive experience on refugee health. Through video, photos, live testimonials, hands-on activities and replicated scenes from the field, The Refugee Journey to Wellbeing highlights the clinical and public health aspects of the refugee experience from displacement to resettlement.

Exhibit Hall Open

Marriott - International Hall

Monday, November 14, 9:30 a.m. - 10:30 a.m.

Coffee Break

Marriott - International Hall

Monday, November 14, 9:45 a.m. - 10:15 a.m.

Sponsored by Takeda Pharmaceuticals International AG

PREMIER

Poster Session A Set-Up

Hilton - Grand Ballroom and Grand Salon

Monday, November 14, 9:45 a.m. - 10:15 a.m.

TropStop Office Hours

Marriott - Atrium Loft

Monday, November 14, 10 a.m. - 11 a.m.

Meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer questions you may have.

PRESENTERS

Kevin J. Esch

Zoetis, Kalamazoo, MI, United States

Christine Petersen

University of Iowa, Iowa City, IA, United States

Poster Session A Viewing

Hilton - Grand Ballroom and Grand Salon

Monday, November 14, 10:15 a.m. - Noon

Scientific Session 14

Filariasis: Epidemiology and Control II

Marriott - Imperial A

Monday, November 14, 10:15 a.m. - Noon

CHAIR

Philip J. Budge

Washington University in St. Louis, St. Louis, MO, United States

Colleen Lau

Research School of Population Health, Australian National University, Brisbane, Queensland, Australia

10:15 a.m.

50

LYMPHATIC FILARIASIS ELIMINATION IN AMERICAN SAMOA: EVALUATION OF MOLECULAR XENOMONITORING AS A SURVEILLANCE TOOL IN THE ENDGAME

Colleen L. Lau¹, Kimberly Y. Won², Patrick J. Lammie², Patricia M. Graves³

¹Research School of Population Health, Australian National University, Canberra, Australia, ²Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³World Health Organization Collaborating Centre for Lymphatic Filariasis, Soil-Transmitted Helminths and Other Neglected Tropical Diseases, James Cook University, Cairns, Australia

10:30 a.m.

51

FILARIASES IN GABON: EMPIRIC ASSESSMENTS REDEFINE DISTRIBUTION AND TREATMENT STRATEGIES FOR ONCHOCERCIASIS AND LOIASIS

Julienne Atsame¹, Kira A. Barbre², Kristen Renneker², Maria P. Rebollo², Honorat Zoure³

¹Ministry of Health Gabon, Libreville, Gabon, ²The Task Force for Global Health, Decatur, GA, United States, ³Regional Office for Africa, World Health Organization, Brazzaville, Republic of the Congo

10:45 a.m.

52

HIGH PREVALENCE OF EPILEPSY IN ONCHOCERCIASIS ENDEMIC REGIONS IN THE DEMOCRATIC REPUBLIC OF THE CONGO (DRC)

Robert Colebunders¹, Floribert Tepage², Michel Mandro³, Kenneth Pfarr⁴, Jean Marie Kashama⁵, Bethanie Levick⁶, Deogratias Rossy³, Alliance Tagoto⁷, Anne Laudoisot¹

¹University of Antwerp, Antwerp, Belgium, ²Programme National de lutte contre l'onchocercose, Kisangani, Democratic Republic of the Congo, ³Provincial Health Division Ituri, Bunia, Democratic Republic of the Congo, ⁴University Hospital Bonn, Bonn, Germany, ⁵Université de Kinshasa, Kinshasa, Democratic Republic of the Congo, ⁶University of Liverpool, Liverpool, United Kingdom, ⁷Ministry of Health, Kisangani, Democratic Republic of the Congo

11 a.m.

53

SIMULATING THE EFFECT OF EVALUATION UNIT SIZE IN DETERMINING ELIGIBILITY TO STOP MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS IN HAITI

Natalya Kostandova¹, Luccene Desir², Abdel Direny³, Alaine Knipes⁴, Jean Frantz Lemoine⁵, Franck Monestime⁶, Fayette Carl Renand⁶, Michael S. Deming⁴, Amy Kirby¹, Katherine Gass⁷

¹Rollins School of Public Health, Decatur, GA, United States, ²Hopital Ste. Croix, Leogane, Haiti, ³ENVISION Project, RTI International, Washington, DC, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Ministry of Public Health and Population, Port-au-Prince, Haiti, ⁶IMA World Health, Port-au-Prince, Haiti, ⁷NTD Support Center, Task Force for Global Health, Decatur, GA, United States

11:15 a.m.

54

PREVALENCE OF OV16 ANTIBODIES AMONG SCHOOL-AGE CHILDREN AFTER TWENTY YEARS OF MASS TREATMENT WITH IVERMECTIN IN TOGO

Ameyo M. Dorkenoo¹, Yao M. Agbo², Wembo Halatoko³, Yao Layibo³, Kossi Yakpa¹, Efoe Sossou¹, Poukpevi Adjeloh¹, Gbati Datagni⁴, Ignace Amegbo⁴, Stephanie Richard⁵, Anders Seim⁶, Potchoziou Karabou¹, Koffi S. Sognikin¹, Rachel N. Bronzan⁷

¹Ministère de la santé, Lomé, Togo, ²Université de Lomé, Lomé, Togo, ³Institut National d'Hygiène, Lomé, Togo, ⁴HDI, Lomé, Togo, ⁵HDI, Rockville, MD, United States, ⁶HDI, Oslo, Norway, ⁷HDI, Seattle, WA, United States

11:30 a.m.

55

TOWARDS ELIMINATION OF LYMPHATIC FILARIASIS IN MALI BY 2020

Massitan Dembélé¹, Seydou Goita², Salif Seriba Doumbia³, Benoit Dembele², Boubacar Guindo², Modibo Keita², Housseini Dolo³, Zana Berthé², Abdoul Karim Sidibé¹, Steven Reid⁴, Marilyn Knieriemen², Yaya Ibrahim Coulibaly², Yaobi Zhang⁵

¹Direction Nationale de la Santé, Ministère de la Santé et de l'Hygiène Publique, Bamako, Mali, ²Helen Keller International, Bamako, Mali, ³Malaria Research and Training Center, Filariasis Research Unit, Bamako, Mali, ⁴Helen Keller International, New York, NY, United States, ⁵Helen Keller International, Regional Office for Africa, Dakar, Senegal

11:45 a.m.

56

EMPLOYING THE NEW OV16 RAPID DIAGNOSTIC TEST (RDT) TO EVALUATE ONCHOCERCIASIS IN AFRICA

Kristen Renneker¹, Julienne Atsame², Mamadou O. Traore³, Lawson Sitima⁴, Yisa Saka⁵, Cristovao Manjuba², Naomi Pitchouna Awaca⁶, Joseph Kamgno⁷, Maria Rebollo Polo¹, Afework Tekle⁸, Honorat Zoure⁹

¹The Task Force for Global Health, Decatur, GA, United States, ²Ministry of Health, Libreville, Gabon, ³Ministry of Health, Bamako, Mali, ⁴Ministry of Health, Lilongwe, Malawi, ⁵Ministry of Health, Abuja, Nigeria, ⁶Ministry of Health, Kinshasa, Democratic Republic of the Congo, ⁷University of Yaounde, Yaounde, Cameroon, ⁸World Health Organization, Geneva, Switzerland, ⁹Regional Office for Africa, World Health Organization, Ouagadougou, Burkina Faso

Scientific Session 15

Dengue: Vaccines/Epidemiology

Marriott - Imperial B

Monday, November 14, 10:15 a.m. - Noon

CHAIR

Christopher Mores

U.S. Naval Medical Research Unit - 6, Lima, Peru

Rebeca Rico-Hesse

Baylor College of Medicine, Houston, TX, United States

10:15 a.m.

57

A SINGLE DOSE OF TV005 ELICITS COMPLETE PROTECTION AGAINST CHALLENGE WITH THE HETEROTYPIC DENV-2, RDN2Δ30

Anna P. Durbin¹, Beth D. Kirkpatrick², Cecilia M. Tibery¹, Palmtama Grier¹, Kristen K. Pierce², Helen He¹, Yolanda Eby¹, Marya P. Carmolli², Cassandra Ventrone², Sean A. Diehl², Stephen S. Whitehead³

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²University of Vermont College of Medicine, Burlington, VT, United States, ³National Institutes of Allergy and Infectious Disease, National Institutes of Health, Bethesda, MD, United States

10:30 a.m.

58

HUMAN CD4+ T CELL RESPONSES INDUCED BY A LIVE ATTENUATED TETRAVALENT DENGUE VACCINE PARALLEL THOSE INDUCED BY NATURAL INFECTION, IN MAGNITUDE, HLA RESTRICTION AND FINE ANTIGEN SPECIFICITY

Daniela Weiskopf¹, Michael A. Angelo¹, Alba Grifoni¹, John Sidney¹, Sinu Paul¹, Bjoern Peters¹, Aruna D. de Silva², Aravinda M. de Silva³, Sean A. Diehl⁴, Beth Kirkpatrick⁴, Stephen Whitehead⁵, Anna Durbin⁶, Alessandro Sette¹

¹La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States, ²Genetech, Colombo, Sri Lanka, ³University of North Carolina, Chapel Hill, NC, United States, ⁴University of Vermont, College of Medicine, Burlington, VT, United States, ⁵National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁶Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, United States

10:45 a.m.

59

A PHASE I CLINICAL TRIAL EVALUATING THE IMPACT OF TETRAVALENT RECOMBINANT SUBUNIT DENGUE VACCINE BOOST ADMINISTERED TO SUBJECTS WHO HAVE PREVIOUSLY BEEN VACCINATED WITH A LIVE-ATTENUATED TETRAVALENT DENGUE VACCINE

Beth-Ann G. Collier¹, Anna Durbin², Beth Kirkpatrick³, Kristen Pierce³, Palmtama Grier⁴, Beulah Sabundayo², Catherine Larsson³, Helen He², Michele Sausser¹, Amy Russell¹, Jason Martin¹, Jeff Sachs¹, Andrew W-T Lee¹, Villarreal Stephanie¹, Long Wang¹, Adel Coren¹, Stacey Traina¹, Stephen S. Whitehead⁵

¹Merck and Company, North Wales, PA, United States, ²Johns Hopkins University, Baltimore, MD, United States, ³University of Vermont, Burlington, VT, United States,

11 a.m.

60

TETRAVALENT DENGUE HETEROLOGOUS PRIME-BOOST VACCINATION - SAFETY, HUMORAL, AND CELL-MEDIATED IMMUNITY AT 1 AND 6 MONTHS

Leyi Lin¹, Kristopher M. Paolino¹, Richard G. Jarman¹, Kenneth H. Eckels¹, Rafael De La Barrera¹, Jeffrey R. Carrier¹, Heather L. Friberg-Robertson¹, Marvin J. Sklar², Naomi E. Aronson³, Erica L. Sondergaard¹, Paul B. Keiser¹, Louis E. Jasper⁴, Stephen J. Thomas¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Naval Medical Research Center, Silver Spring, MD, United States, ³Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ⁴USAMMDA Pharmaceutical Systems, Fort Detrick, MD, United States

11:15 a.m.

61

TAKEDA'S TETRAVALENT DENGUE VACCINE (TDV) CANDIDATE PROGRESSES TO PHASE III: SAFETY AND IMMUNOGENICITY OF TDV

Derek Wallace¹, Vianney Tricou¹, Dan Stinchcomb², Kwasi Amfo¹, Astrid Borkowski³

¹Takeda Vaccines Pte Ltd, Singapore, Singapore, ²Takeda Vaccines Inc, Deerfield, IL, United States, ³Takeda Pharmaceuticals International AG, Zurich, Switzerland

11:30 a.m.

62

CONTRIBUTIONS OF SILENT INFECTIONS TO DENGUE VIRUS TRANSMISSION

Quirine A. ten Bosch¹, Hannah E. Clapham², Louis Lambrechts³, Benjamin M. Althouse⁴, Alun L. Lloyd⁵, Lance A. Waller⁶, Amy C. Morrison⁷, Uriel Kitron⁸, Gonzalo M. Vazquez-Prokopec⁶, Thomas W. Scott⁷, Alex T. Perkins¹

¹University of Notre Dame, Notre Dame, IN, United States, ²Johns Hopkins School of Public Health, Baltimore, MD, United States, ³Institut Pasteur, Paris, France, ⁴Institute for Disease Modeling, Bellevue, WA, United States, ⁵North Carolina State University, Raleigh, NC, United States, ⁶Emory University, Atlanta, GA, United States, ⁷University of California Davis, Davis, CA, United States

11:45 a.m.

63

PREDICTORS FOR SEVERE DENGUE - RESULTS FROM A PROSPECTIVE MULTI-CENTRE STUDY IN 8 COUNTRIES ACROSS ASIA AND LATIN AMERICA

Phung Khanh Lam¹, Kerstin Rosenberger², Dong Thi Hoai Tam¹, Ngoun Chanpheaktra³, Lucy Lum Chai See⁴, Ernesto Pleitéz Sandoval⁵, Ida Safitri Laksono⁶, Malabika Sarker⁷, Ernesto T. Marques⁸, Adriana Tami⁹, Cameron Simmons¹, Marcel Wolbers¹, Bridget Wills¹, Thomas Jaenisch²

¹Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, ²Section Clinical Tropical Medicine, Heidelberg University Hospital, Heidelberg, Germany, ³Angkor Hospital for Children, Siem Reap, Cambodia, ⁴University of Malaya Medical Centre, Kuala Lumpur, Malaysia, ⁵Hospital Nacional de Niños Benjamin Bloom, San Salvador, El Salvador, ⁶The Gadjah Mada University, Yogyakarta, Indonesia, ⁷James P. Grant School of Public Health, BRAC University, Dhaka, Bangladesh, ⁸Centro de Pesquisas Aggeu Magalhães, Fundação Oswaldo Cruz, Recife, Brazil, ⁹Departamento de Parasitología, Facultad de Ciencias de la Salud, Universidad de Carabobo, Valencia, Bolivarian Republic of Venezuela

Scientific Session 16

Malaria: Chemotherapy and Drug Resistance - Looking for Drug Resistance

Marriott - Marquis A

Monday, November 14, 10:15 a.m. - Noon

CHAIR

Ghulam Awab

Nangarhar University, Jalalabad, Afghanistan

Kamal Hamed

Novartis Pharmaceuticals Corporation, East Hanover, NJ, United States

10:15 a.m.

64

ACT PARTNER DRUG EROSION—EVIDENCE OF PPO RESISTANT PARASITES FROM CAMBODIA

Selina Bopp¹, Pamela Magistrado¹, Wesley Wong¹, Angana Mukherjee², Charles J. Woodrow³, Elizabeth Ashley⁴, Nicholas White⁴, Arjen Dondorp⁴, Rick M. Fairhurst⁵, Dyann F. Wirth¹, Sarah K. Volkman¹

¹Harvard T. H. Chan School of Public Health, Boston, MA, United States, ²Université Laval, Québec, QC, Canada, ³Oxford University, Oxford, United Kingdom, ⁴Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand, ⁵Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

10:30 a.m.

65

ARTESUNATE-MEFLOQUINE EFFECTIVELY TREATS DIHYDROARTEMISININ-PIPERAQUINE-RESISTANT PLASMODIUM FALCIPARUM MALARIA IN CAMBODIA

Chanaki Amaratunga¹, Pharath Lim¹, Sokunthea Sreng², Sivanna Mao³, Vitya Tin⁴, Baramy Sam⁵, Dalin Dek², Jennifer M. Anderson¹, Joel Tarning⁶, Seila Suon², Rick M. Fairhurst¹

¹Laboratory of Malaria and Vector Research, National Institutes of Health, Rockville, MD, United States, ²National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ³Sampov Meas Referral Hospital, Pursat, Cambodia, ⁴16 Makara Referral Hospital, Preah Vihear, Cambodia, ⁵Ratanakiri Referral Hospital, Ratanakiri, Cambodia, ⁶Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Bangkok, Thailand

10:45 a.m.

66

SIGNIFICANT DIFFERENT LEVELS OF ARTEMISININ MONOTHERAPY EFFICACY ON P. FALCIPARUM IN MALI

Sekou Sissoko, Bakary Fofana, Cheick C. Sangare, Sekou Toure, Kassim Sanogo, Aminatou Kone, Hamadoun Diakite, Siaka H. Toure, Demba Dembele, Boubou Sangare, Khadidiatou Haidara, Diagassan Doumbia, Hamidou Niangaly, Issaka Sagara, Ogobara K. Doumbo, Abdoulaye A. Djimde University of Science, Techniques and Technologies of Bamako, Bamako, Mali

11 a.m.

67

CLINICAL EFFICACY OF ARTEMETHER-LUMEFANTRINE INRELATION TO DRUG EXPOSURE IN CHILDREN WITH UNCOMPLICATED SEVERE ACUTE MALNUTRITION

Lise Denoed-Ndam¹, Alassane Dicko², Elisabeth Baudin¹, Ousmane Guindo³, Francesco Grandesso¹, Halimatou Diawara², Sibiri Sissoko², Koualy Sanogo², Seydou Traore², Sekouba Keta², Amadou Barry², Martin de Smet⁴, Estrella Lasry⁵, Michiel Smit⁶, Lubbe Wiesner⁶, Karen I. Barnes⁷, Abdoulaye A. Djimde², Rebecca F. Grais¹, Ogobara K. Doumbo², Jean-Francois Etard¹

¹Epicentre, Paris, France, ²Malaria Research and Training Center, Bamako, Mali, ³Epicentre, Niamey, Niger, ⁴Médecins Sans Frontières, Bruxelles, Belgium, ⁵Médecins Sans Frontières, Paris, France, ⁶Division of Clinical Pharmacology, University of Cape Town, Cape Town, South Africa, ⁷WorldWide Antimalarial Resistance Network, Oxford, United Kingdom

11:15 a.m.

68

ZINC-FINGER NUCLEASE-MEDIATED GENE EDITING ILLUSTRATES THE ROLE OF PFMDR1 N86Y IN MODULATING *PLASMODIUM FALCIPARUM* SUSCEPTIBILITY TO ARTEMISININ-BASED COMBINATION THERAPIES

Satish K. Dhingra¹, Maria Isabel Veiga², Philipp P. Henrich¹, Judith Straimer¹, Nina Gnadig¹, Anne-Catrin Uhlemann¹, Rowena E. Martin³, Adele M. Lehane³, **David A. Fidock¹**

¹Columbia University, New York, NY, United States, ²University of Minho, Braga, Portugal, ³The Australian National University, Canberra, Australia

(ACMCIP Abstract)

11:30 a.m.

69

UNSUPERVISED PRIMAQUINE FOR *PLASMODIUM VIVAX* RADICAL CURE LACKS EFFECTIVENESS IN SOUTHERN PAPUA

Nicholas M. Douglas¹, Jeanne Rini Poespoprodjo², Rian Patriani³, Michael Malloy⁴, Enny Kenangalem⁵, Paulus Sugiarto⁶, Julie A. Simpson⁴, Yati Soenarto⁷, Nicholas M. Anstey¹, **Ric N. Price¹**

¹Menzies School of Health Research, Darwin, Australia, ²University Gadjah Mada, Yogyakarta, Indonesia, ³University of Gadjah Mada, Yogyakarta, Indonesia, ⁴University of Melbourne, Melbourne, Australia, ⁵Papuan Health and Community Development Foundation, Timika, Indonesia, ⁶Rumah Sakit Mitra Masyarakat, Timika, Indonesia, ⁷University Gadjah Mada, Yogyakarta, Indonesia

11:45 a.m.

70

ESTIMATING THE RISK OF *PLASMODIUM VIVAX* RELAPSES IN AFGHANISTAN

Ghulam R. Awab¹, Mallika Imwong², Germana Bancone², Nicholas P. Day², Nicholas J. White², Charles J. Woodrow²

¹Nangarhar Medical Faculty, Nangarhar University, Afghanistan, ²Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Symposium 17

Characterizing Spatiotemporal Patterns of Insecticide Resistance in Disease Vectors, Identifying the Drivers behind These Patterns and Understanding Their Impact

Marriott - Marquis B

Monday, November 14, 10:15 a.m. - Noon

Studies of insecticide resistance in disease vectors have been carried out within many countries. The aim of this symposium is to synthesize the results from across countries and years to identify trends. This session will first explore trends within a single country that has a wealth of data, Burkina Faso, and then review the current state of knowledge for anopheline vectors of malaria across Africa. Speakers will also review progress in modelling the effect modification of insecticide resistance on malaria transmission and control. Finally, before opening the discussion, a new project will be introduced that will bring together results and expertise for multiple species and genera to characterize spatiotemporal patterns of resistance and identify the drivers behind these patterns. The discussion will revolve around the four talks, including the following topics: the factors that should be considered when analyzing both the drivers of resistance and the effect of resistance on transmission, in the context of control; the progress made so far and the data needed to address these issues; differences between global regions; and the design of studies to measure the impact of resistance.

CHAIR

Michael Coleman

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Peter W. Gething

University of Oxford, Oxford, United Kingdom

10:15 a.m.

THE SPREAD OF INSECTICIDE RESISTANCE IN BURKINA FASO

Kounbobr Roch Dabiré

Institut de Recherche en Science de la Santé, Bobo Dioulasso, Burkina Faso

10:35 a.m.

AN OVERVIEW OF THE SPREAD OF INSECTICIDE RESISTANCE IN AFRICA

Janet Hemingway

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:55 a.m.

MODELING THE EFFECT MODIFICATION OF INSECTICIDE RESISTANCE

David L. Smith

University of Washington, Seattle, WA, United States

11:15 a.m.

FUTURE PLANS TO MODEL SPATIOTEMPORAL PATTERNS OF RESISTANCE AND USE THESE TO EXPLORE THE DRIVERS AND IMPACT OF RESISTANCE

Catherine L. Moyes

University of Oxford, Oxford, United Kingdom

Symposium 18

Refugee Health: Clinical Case Studies

Marriott - Marquis C

Monday, November 14, 10:15 a.m. - Noon

UNHCR estimates that there are 60 million forcibly displaced persons living outside their country of origin, the highest number ever recorded. Twenty-eight countries participate in refugee resettlement, including the addition of Italy in 2015 and a new three-year pilot program by the Republic of Korea. The United States is the top resettlement country, with sizable resettlement to Australia, Canada and the Nordic countries. Canada has recently agreed to resettle 25,000 Syrian refugees. From 1975 through December 31, 2015, the United States resettled 3.25 million refugees from Asia, the former Soviet Union, the Near East and South Asia, Africa, Europe and elsewhere. As each new wave of refugees arrive, clinicians in resettlement countries struggle with keeping up to date on current tropical medicine issues facing patients from widely disparate regions of the world. They are often faced with unfamiliar tropical diseases, some of which may have long latency periods. Significant morbidity and mortality has been documented as a result, in part related to access to care, as well as to lack of clinician familiarity with clinical tropical medicine. Refugees have higher prevalence rates for tuberculosis, chronic hepatitis B, intestinal nematodes and other more uncommon infections such as neurocysticercosis, strongyloidiasis and schistosomiasis. Some tropical infectious diseases may be diagnosed late, with significant implications for both personal and public health. Data from Europe has shown refugees are more likely to die from infectious diseases than

native born Danes, for example. This symposium aligns with the CDC/ASTMH refugee exhibit at the ASTMH Annual Meeting called The Refugee Journey to Wellbeing, and will feature clinical tropical medicine experts on the front lines of caring for refugees in resettlement countries. They will present unknown diseases in an interactive case based format, highlighting acute and chronic tropical infections seen in refugees after resettlement.

CHAIR

Patricia F. Walker

University of Minnesota, Minneapolis, MN, United States

Brett H. Paterson

University of Minnesota, Minneapolis, MN, United States

10:15 a.m.

“WHAT COULD BE WRONG WITH MY LIVER, DOCTOR?” A REFUGEE FAMILY WITH ABNORMAL LIVER FUNCTION TESTS

Elizabeth Barnett

Boston University School of Medicine, Boston, MA, United States

10:30 a.m.

“THE FRIEND WHO DOESN'T WANT TO LEAVE” – AN UNUSUALLY ILL PATIENT

Michael Libman

McGill University, Montreal, Canada

10:45 a.m.

“WHAT IS CAUSING THIS FEVER, DOCTOR?” AN IMMIGRANT WITH FEVER AFTER TRAVELING

Anne McCarthy

Tropical Medicine and International Health Clinic, Ottawa, Canada

11 a.m.

“THE GREAT MASQUERADER” - A YOUNG IMMIGRANT WITH HEMATURIA

Christina Coyle

Albert Einstein College of Medicine, Bronx, NY, United States

Symposium 19

Disease Elimination and Eradication: Programmatic Best Practices, Lessons Learned and Challenges

Marriott - Marquis D

Monday, November 14, 10:15 a.m. - Noon

Increased global health funding has led to great progress in reducing morbidity and mortality of various diseases, including HIV, tuberculosis, malaria and various neglected tropical diseases (NTDs). For some diseases progress has been such that transmission, elimination and even eradication are now targeted. However, what is the science, policy and operational must-haves to get us to that point? What are we learning from decade-long elimination and eradication efforts that have been successful? What are the challenges to get the “job done”? Why have some efforts been less successful, stalled, or not even taken off the ground? This symposium will discuss updates and keys to success of two eradication programs (Guinea worm disease [GWD] and polio) and a successful elimination program (malaria in Sri Lanka); it will also discuss why progress of one elimination effort (Chagas disease) has been uneven. The GWD

eradication campaign began in 1986, when 3.5 million cases occurred annually in 20 countries in Africa and Asia. By 2015, 22 cases were reported from 20 out of 4,000+ villages under active surveillance in the 4 remaining GWD endemic countries (Chad, Ethiopia, Mali, South Sudan). The campaign aims to interrupt transmission in 2016, but insecurity is a challenge in South Sudan and Mali, as is the peculiar GWD epidemiology in Chad. In 1988, when the Global Polio Eradication Initiative started, polio paralyzed 1,000+ children each day. Since then, due to 200+ countries and 20 million volunteers cooperating, 2.5+ billion children have been immunized against polio. Global incidence has declined by 99.9%: four of six WHO regions are certified as polio-free and Africa has not had a confirmed polio case in nearly two years; only two countries (Afghanistan, Pakistan) remain endemic. Tackling the last 0.01% of cases is difficult due to conflict, political instability, hard-to-reach populations, program management gaps, difficult communication, community distrust and poor infrastructure. In 1999, the Sri Lankan malaria program reported 264,549 confirmed malaria cases. Since 2012 there have been no autochthonous malaria cases; 36 travel-related cases were reported in 2015. Work now focuses on certifying the country to be malaria-free and on ensuring that existing systems prevent re-emergence of autochthonous transmission. Ten-to-twenty million people live with Chagas disease, one of the most important parasitic diseases in the Americas. Great progress was made to control vector- and blood-borne disease transmission in the 1990s and 2000s, which led WHO to announce in 2007 a renewed strategy to eliminate Chagas disease in the Americas by 2010. However, six years later, a clear strategy for elimination has yet to be defined, with variable progress of elimination efforts in endemic countries.

CHAIR

Richard Reithinger

RTI International, Washington, DC, United States

Frank Richards

The Carter Center, Atlanta, GA, United States

10:15 a.m.

GUINEA WORM DISEASE ERADICATION: AN UPDATE

Ernesto Ruiz-Tiben

The Carter Center, Atlanta, GA, United States

10:30 a.m.

POLIO ERADICATION: AN UPDATE

Ellyn Ogden

U.S. Agency for International Development, Washington, DC, United States

10:45 a.m.

MALARIA IN SRI LANKA: ON THE PATH CERTIFICATION

Rajitha Wickremasinghe

University of Kelaniya, Kelaniya, Sri Lanka

11 a.m.

CHAGAS DISEASE ELIMINATION: WHERE ARE WE NOW?

Ricardo Guertler

Universidad de Buenos Aires-CONICET, Buenos Aires, Argentina

Scientific Session 20

Malaria: Vector Control Interventions in Africa - LLINs and Beyond

Marriott - Room M103/M104/M105

Monday, November 14, 10:15 a.m. - Noon

CHAIR

Joseph Mugasa

National Institute for Medical Research, Amani Medical Research Centre, Tanga, United Republic of Tanzania

Willem Takken

Wageningen University, Wageningen, Netherlands

10:15 a.m.

71

IMPACT OF NEW COMBINATION LLINs ON ENTOMOLOGICAL MEASURES OF MALARIA TRANSMISSION IN MALI

Moussa Cisse¹, Raymond F. Beach², Dereje Dengela³, Richard Oxborough³, Bradford Lucas³, Abdourhamane Dicko⁴, Djibril Sangare¹, Jules Mihigo⁵, Aboubacar Sadou⁶, Kristen George⁷, Christen Fornadel⁷, Laura Norris⁷, Allison Belemvire⁷, Suzanne Powell⁸

¹United States Agency for International Development PMI AIRS Project, Abt Associates, Bamako, Mali, ²Entomology Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ³United States Agency for International Development PMI AIRS Project, Abt Associates, Bethesda, MD, United States, ⁴Programme National de Lutte contre le Paludisme, Bamako, Mali, ⁵U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Bamako, Mali, ⁶U.S. President's Malaria Initiative, U.S. Agency for International Development, Bamako, Mali, ⁷U.S. President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States, ⁸U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

10:30 a.m.

72

IMPACT OF COMBINING INDOOR RESIDUAL SPRAYING AND LONG-LASTING INSECTICIDAL NETS ON ANOPHELES ARABIENSIS IN ETHIOPIA: PRELIMINARY FINDINGS OF A RANDOMIZED CONTROLLED TRIAL

Oljira Kenea¹, Meshesha Balkew¹, Habte Tekie¹, Teshome Gebre-Michael¹, Wakgari Deressa¹, Eskindir Loha², Hans J. Overgaard³, Bernt Lindtjorn⁴

¹Addis Ababa University, Addis Ababa, Ethiopia, ²Hawassa University, Hawassa, Ethiopia, ³Norwegian University of Life Sciences, Aas, Norway, ⁴University of Bergen, Bergen, Norway

10:45 a.m.

73

IMPLEMENTATION OF A NON-PYRETHROID INSECTICIDE-TREATED DURABLE WALL LINING FOR MALARIA CONTROL UNDER OPERATIONAL CONDITIONS IN RURAL TANZANIA

Joseph Mugasa¹, Louisa A. Messenger², George Mtove¹, Robert C. Malima¹, Peter Mangesho¹, Franklin Magogo¹, Abraham Mwambuli¹, Abubakary Mziray¹, George Olang³, Edward Sambu¹, Dionise Rwegeshora¹, Yara A. Halasa⁴, Donald S. Shepard⁴, John Thomas⁵, Mark Rowland², William N. Kisinza¹

¹National Institute for Medical Research, Amani Medical Research Centre, Muheza, United Republic of Tanzania, ²Department of Disease Control, London School of Hygiene & Tropical Medicine, London, United Kingdom, ³The Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, ⁴Brandeis University, Waltham, MA, United States, ⁵Phoenix Ordinary LLC, Bridgewater, NJ, United States

11 a.m.

74

EXPERIMENTAL HUT EVALUATION OF A NEW NON-PYRETHROID INSECTICIDE-TREATED DURABLE WALL LINERS FOR CONTROL OF PYRETHROID RESISTANT ANOPHELES GAMBIAE AND ANOPHELES FUNESTUS SENSU STRICTO IN MUHEZA, TANZANIA

Robert C. Malima¹, Louisa A. Messenger², Joseph Mugasa³, Bernard Batengana¹, Basiliana Emid¹, George Mtove¹, Abraham Mwambuli¹, Richard M. Oxborough², Wema Sudi¹, Sophie J. Weston², Laura C. Norris⁴, Meera Venkatesan⁴, Mark Rowland², Frank W. Moshia⁵, William N. Kisinza¹

¹National Institute for Medical Research, Amani Medical Research Centre, Muheza, United Republic of Tanzania, ²Department of Disease Control, London School of Hygiene & Tropical Medicine, London, United Kingdom, ³National Institute for Medical Research, Amani Research Centre, Muheza, United Republic of Tanzania, ⁴U.S. President's Malaria Initiative, United States Agency for International Development, Washington, DC, United States, ⁵Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania

11:15 a.m.

75

THE AVECNET TRIAL TO ASSESS WHETHER ADDITION OF PYRIPROXYFEN, AN INSECT JUVENILE HORMONE MIMIC, TO LONG-LASTING INSECTICIDAL MOSQUITO NETS PROVIDES ADDITIONAL PROTECTION AGAINST CLINICAL MALARIA OVER CURRENT BEST PRACTICE IN AN AREA WITH PYRETHROID-RESISTANT VECTORS IN RURAL BURKINA FASO: A CLUSTER-RANDOMIZED CONTROLLED TRIAL USING A STEP-WEDGE DESIGN

Alfred B. Tiono¹, Margaret Pinder², N'Fale Sagnon¹, Moussa Guelbeogo¹, Brian Faragher³, Alphonse Ouedraogo¹, Daouda Ouattara¹, Tom Smith⁴, Sodiomon Sirima¹, Steve Lindsay²

¹Centre National de Recherche et de Formation sur le Paludisme (CNRFP), Ouagadougou, Burkina Faso, ²Durham University, Durham, United Kingdom, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁴Swiss Tropical and Public Health Institute, Basel, Switzerland

11:30 a.m.

76

ODOR-BAITED TRAPS AS A NOVEL TOOL FOR MALARIA CONTROL - THE SOLARMAL TRIAL

Alexandra Hiscox¹, Tobias Homan¹, Thomas A. Smith², Daniel Masiga³, Wolfgang R. Mukabana⁴, Mariabeth Silky², Collins K. Mweresa³, Prisca Oria¹, Jane Alaii⁵, Cees Leeuwis¹, Teun Bousema⁶, Nicolas Maire², Aurelio DePasquale², Willem Takken¹

¹Wageningen University, Wageningen, Netherlands, ²Swiss Tropical and Public Health Institute, Basel, Switzerland, ³International Centre for Insect Physiology and Ecology, Nairobi, Kenya, ⁴University of Nairobi, Nairobi, Kenya, ⁵Context Factor Solutions, Nairobi, Kenya, ⁶Radboud University Medical Centre, Nijmegen, Netherlands

11:45 a.m.

77

ANOPHELES DIRUS EFFICIENTLY TRANSMITS MIXED SPECIES AND MULTIPLE CLONE MALARIA INFECTIONS IN CAMBODIA

Sujata Balasubramanian¹, Rifat S. Rahman², Christian M. Parobek¹, Panita Gosi³, David L. Saunders³, Chantap Lon⁴, Ratawan Ubalee³, Steven R. Meshnick¹, Jonathan J. Juliano¹, Jessica T. Lin¹

¹University of North Carolina, Chapel Hill, Chapel Hill, NC, United States, ²Duke University, Durham, NC, United States, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴Armed Forces Research Institute of Medical Science, Phnom Penh, Cambodia

Scientific Session 21

Clinical Tropical Medicine I

Marriott - Atrium A

Monday, November 14, 10:15 a.m. - Noon

CHAIR

Rebecca Susann Fischer

Baylor College of Medicine, Houston, TX, United States

Mark S. Riddle

Naval Medical Research Center, Silver Spring, MD, United States

10:15 a.m.

78

MESOAMERICAN NEPHROPATHY (MEN) IN NICARAGUA: ACUTE INTERSTITIAL NEPHRITIS OF INFECTIOUS ORIGIN?

Rebecca Susann Fischer, Sreedhar Mandayam, Denis Chavarria, Melissa N. Garcia, Rodion Gorchakov, Kristy O. Murray
Baylor College of Medicine, Houston, TX, United States

10:30 a.m.

79

SEVERE AND HIGHLY FATAL OUTBREAK OF HISTOPLASMOSIS AMONG TUNNEL WORKERS — DOMINICAN REPUBLIC, 2015

Paige Armstrong¹, John Beard¹, Sae-Rom Chae¹, Luis Bonilla², Mark Lindsley³, Delia Castillo⁴, Ramona Nuñez⁴, Tom Chiller³, Nelson Arboleda², Raquel Pimentel⁴, Snigdha Vallabhaneni³
¹Epidemic Intelligence Service, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Santo Domingo, Dominican Republic, ³Mycotic Diseases Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Ministerio de Salud Pública y Asistencia Social, Santo Domingo, Dominican Republic

10:45 a.m.

80

PERFORMANCE CHARACTERISTICS OF THE WHATMAN FTA ELUTE CARD AND TAQMAN ARRAY CARD PCR ASSAY AS AN ALTERNATIVE METHOD OF STORAGE OF FECAL SAMPLES AND ENTEROPATHOGEN DETECTION AS PART OF THE TRAVELERS' DIARRHEA TREATMENT TRIAL

Tahaniyat Lalani¹, Michele Tisdale¹, Jie Liu², Indrani Mitra³, Cliff Philip⁴, Elizabeth Odundo⁴, Faviola Reyes⁵, Jamie Fraser³, Emma Hutley⁶, Patrick Connor⁸, Stephen Becker², Eric Houpt², David Tribble³, Mark Riddle⁷
¹Infectious Disease Clinical Research Program, Uniformed Services University of the Health Sciences, Portsmouth, VA, United States, ²University of Virginia, Charlottesville, VA, United States, ³Infectious Disease Clinical Research Program, Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ⁴United States Army Medical Research Directorate Kenya, Kericho, Kenya, ⁵Joint Task Force Bravo, Soto Cano Air Base, Honduras, ⁶Department of Military Medicine, Royal Centre for Defense Medicine, Birmingham, United Kingdom, ⁷Naval Medical Research Center, Silver Spring, MD, United States

11 a.m.

81

RESULTS FROM THE TRIAL EVALUATING AMBULATORY THERAPY OF TRAVELERS' DIARRHEA (TREAT TD) STUDY: A RANDOMIZED CONTROLLED TRIAL COMPARING THREE SINGLE DOSE ANTIBIOTIC REGIMENS WITH LOPERAMIDE

Mark S. Riddle¹, Patrick Connor², Jamie Fraser³, Chad K. Porter¹, Brett Swierczewski⁴, Emma J. Hutley², Brook A. Danboise⁵, Mark Simons⁶, Tahaniyat Lalani³, Christine Hulseberg⁷, Ramiro L. Gutierrez¹, David R. Tribble³, on behalf of the TREAT TD Study Team
¹Naval Medical Research Center, Silver Spring, MD, United States, ²Department of Military Medicine, Royal Centre for Defense Medicine, Birmingham, United Kingdom, ³Infectious Diseases Clinical Research Program, Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ⁴Armed Forces Research Institute for the Medical Sciences, Bangkok, Thailand, ⁵U.S. Army Medical Research Unit, Kericho, Kenya, ⁶U.S. Naval Medical Research Unit - 6, Lima, Peru, ⁷U.S. Army Research Unit Kenya, Kericho, Kenya

11:15 a.m.

82

EFFICACY AND SAFETY OF A SINGLE-DOSE MEBENDAZOLE 500 MG CHEWABLE TABLET IN THE TREATMENT OF ASCARIS LUMBRICOIDES AND TRICHURIS TRICHIURA INFECTION IN PEDIATRIC PATIENTS: A DOUBLE-BLIND, RANDOMIZED, PLACEBO-CONTROLLED, PHASE 3 STUDY

Steven Silber¹, Ermias Diro², Netsanet Workneh³, Zeleke Mekonnen³, Bruno Levecke⁴, Peter Steinmann⁵, Irene Umulisa⁶, Marc Engelen⁷, Benny Baeten⁷,

Peter Hu¹, Andrew Friedman¹, Alan Baseman¹, Joseph Mrus¹

¹Janssen Research & Development LLC, New Jersey, NJ, United States, ²University of Gondar, Gondar, Ethiopia, ³Jimma University, Jimma, Ethiopia, ⁴Ghent University, Merelbeke, Belgium, ⁵Swiss Tropical and Public Health Institute and University of Basel, Basel, Switzerland, ⁶Rwanda Biomedical Centre, Kingali, Rwanda, ⁷Janssen Pharmaceutica NV, Beerse, Belgium

11:30 a.m.

83

ILLNESS AMONG MIGRANTS TO CANADA: SURVEILLANCE REPORT FROM CANTRAVNET SURVEILLANCE DATA, 2015

Andrea K. Boggild¹, Jennifer Geduld², Michael Libman³, Cedric Yansouni³, Anne McCarthy⁴, Jan Hajek⁵, Wayne Ghesquiere⁵, Jean Vincelette⁶, Susan Kuh⁷, Pierre Plourde⁸, David Freedman⁹, Kevin Kain¹
¹University of Toronto, Toronto, ON, Canada, ²Public Health Agency of Canada, Ottawa, ON, Canada, ³McGill University, Montreal, QC, Canada, ⁴University of Ottawa, Ottawa, ON, Canada, ⁵University of British Columbia, Vancouver, BC, Canada, ⁶Université de Montréal, Montreal, QC, Canada, ⁷University of Calgary, Calgary, AB, Canada, ⁸Winnipeg Regional Health Authority, Winnipeg, MB, Canada, ⁹University of Alabama Birmingham, Birmingham, AL, United States

11:45 a.m.

84

MATERNAL PARASITIC INFECTIONS ALTER INFANT ANTIBODY RESPONSE TO PNEUMOCOCCAL IMMUNIZATION

Noah D. McKittrick¹, David M. Vu¹, Derek Boothroyd¹, Indu Malhotra², Charles H. King², Francis M. Mutuku³, Angelle Desiree LaBeaud¹
¹Stanford University, Palo Alto, CA, United States, ²Case Western Reserve University School of Medicine, Cleveland, OH, United States, ³Technical University of Mombasa, Mombasa, Kenya

(ACMCIP Abstract)

Symposium 22

Developing Responsible Data Sharing for Tropical Medicine

Marriott - Room A601

Monday, November 14, 10:15 a.m. - Noon

Many funders of biomedical research now encourage, and in some cases oblige, grant-holders to “share” their primary data with external researchers to allow secondary analysis. An increasing number of journals now require that primary data used to prepare a manuscript be made available upon publication. The assumption is that data shared will be data reused, for reanalysis, to be compared with outputs or conclusions from similar studies, or pooled with similar data sets for large scale meta-analysis. The expectation is that data reuse will avoid duplication of effort, identify clear gaps in knowledge, save human and material resources and translate into better public health policies and practice. However, the institutions that encourage data sharing rarely offer clear guidance on which data sets should be shared, where and how the data and associated meta-data should be deposited and how those who did the hard work of data collection will be recognized for their contributions. Sharing the results of research performed in low- and middle-income countries especially highlights these complex issues of equity and reciprocity and the distribution of credit and reward. This symposium will provide an opportunity to address these challenges collaboratively and begin to devise creative responses to assure that responsible data sharing will benefit the whole public health community. The speakers have had varied

Monday
November 14

experiences of data sharing in malaria, schistosomiasis and Ebola Virus Disease. Professor Gaye has contributed actively to several analyses of pooled primary data from individual clinical trials of antimalarial efficacy. Dr. Narcis Kabatereine heads the Schistosomiasis Control Initiative, a group that has just begun to consider the challenges their research community must resolve if all members are to benefit from a common data sharing platform. The International Rescue Committee responded early to last year's EVD outbreak and Dr. Adam Levine is part of a large collaboration to agree appropriate terms for ethical, responsible sharing of data collected during treatment of EVD patients. Laura Merson will use her experience in negotiating collaborative data sharing agreements during and after outbreaks to highlight the challenges and initiate the audience focused panel discussion on solutions.

CHAIR

Philippe J. Guerin
University of Oxford, Oxford, United Kingdom

Estrella Lasry
Medecins Sans Frontieres, New York, NY, United States

10:15 a.m. DATA SHARING IN THE MALARIA COMMUNITY - A LONG JOURNEY

Oumar Gaye
Université Cheikh Anta Diop de Dakar, Dakar, Senegal

10:35 a.m. DATA SHARING IN SCHISTOSOMIASIS - BEGINNING THE DISCUSSION

Narcis B. Kabatereine
Schistosomiasis Control Initiative of Imperial College, London, United Kingdom

10:55 a.m. DATA SHARING IN OUTBREAKS AND EMERGENCIES - EBOLA

Adam C. Levine
International Medical Corps, Washington, DC, United States

11:15 a.m. NAVIGATING DATA SHARING IN TROPICAL MEDICINE - WHERE DO WE GO FROM HERE

Laura Merson
University of Oxford, Oxford, United Kingdom

Scientific Session 23

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Helminths - Cellular, Molecular and Immunoparasitology

Marriott - Room A602

Monday, November 14, 10:15 a.m. - Noon

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Monica C. Botelho
National Institute of Health Dr. Ricardo Jorge, Porto, Portugal

Papa M. Drame
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

1930

DIALOGUE BETWEEN NEUTROPHILS AND HOOKWORMS DETERMINES PARASITE DEVELOPMENT

Tiffany Bouchery¹, Beatrice Volpe¹, Graham LeGros LeGros², Nicola Harris¹
¹UPHARRIS, Global Health Institute, EPFL, Lausanne, Switzerland, ²Malaghan Institute of Medical Research, Wellington, New Zealand

10:30 a.m.

85

POPULATION GENOMICS OF WUCHERERIA BANCROFTI FROM ARCHIVED SAMPLES USING SELECTIVE WHOLE GENOME AMPLIFICATION

Scott T. Small¹, David Serre², Christopher King¹, Patrick Lammie³, Yaya Coulibaly⁴, Abdallah Diallo⁴, Thomas Nutman⁵, Peter Zimmerman¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Cleveland Clinic Foundation, Cleveland, OH, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴National Institute of Allergy and Infectious Diseases-Mali ICER, Bamako, Mali, ⁵National Institutes of Health, Bethesda, MD, United States

10:45 a.m.

86

POST-GENOMIC EMPIRIC IMMUNOMIC ANALYSES IDENTIFY NOVEL BIOMARKERS FOR ACTIVE O. VOLVULUS INFECTION

Sasisekhar Bennuru¹, Georgiette Oduro-Boateng¹, Alexandra Grote², Jose M. Ribeiro³, Elodie Ghedin², Sara Lustigman⁴, Thomas B. Nutman¹
¹National Institutes of Health, Bethesda, MD, United States, ²Center for Genomics and Systems Biology, New York University, New York, NY, United States, ³National Institutes of Health, Rockville, MD, United States, ⁴New York Blood Center, New York, NY, United States

11 a.m.

87

NOVEL BIOMARKERS FOR THE IMMUNE-BASED QUANTIFICATION OF LOA LOA MICROFILARIAE AND THE DIAGNOSIS OF LOIASIS

Papa M. Drame, Sasisekhar Bennuru, Thomas B. Nutman
National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

11:15 a.m.

88

ALLERGIC SENSITIZATION UNDERLIES HYPER-REACTIVE ANTIGEN-SPECIFIC CD4+ T-CELL RESPONSES IN COINCIDENT FILARIAL INFECTION

Pedro H. Gazzinelli-Guimaraes¹, Sandra Bonne-Annee¹, Ricardo T. Fujiwara², Helton C. Santiago², Thomas B. Nutman¹
¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Federal University of Minas Gerais, Belo Horizonte, Brazil

(ACMCIP Abstract)

11:30 a.m.

89

SCHISTOSOMA MANSONI INFECTION IMPAIRS REPRODUCTION IN MICE

Monica C. Botelho¹, Graça Lopes², Mario Sousa², Fatima Gartner², Helena Alves¹, Joachim Richter³
¹National Institute of Health Dr. Ricardo Jorge, Porto, Portugal, ²ICBAS, Porto, Portugal, ³Faculty of Medicine of the Heinrich-Heine University, Duesseldorf, Germany

(ACMCIP Abstract)

THE EFFECTS OF PRAZIQUANTEL ON THE TEMPORAL INTERACTION BETWEEN THE HELMINTH PARASITE *SCHISTOSOMA MANSONI* AND ITS MURINE HOST

Melissa C. Sanchez¹, Amalia Sanchez Parra¹, Christain von Cabanlong¹, Pauline M. Cupit², Charles Cunningham¹

¹Center for Evolutionary and Theoretical Immunology, Department of Biology, University of New Mexico, Albuquerque, NM, United States, ²Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California, San Diego, CA, United States

(ACMCIP Abstract)

Symposium 24

Immune Memory Responses in Malaria

Marriott - Room A703/A704

Monday, November 14, 10:15 a.m. - Noon

This symposium is devoted to immunologic memory in malaria and aims to present a wide range of studies that address the issue of immune memory induction and persistence in natural malaria infections, as well as in malaria infection or vaccination model systems. The symposium will include presentations and discussions concerning memory B cell and T cell responses to *P. falciparum*, *P. vivax*, *P. chabaudi* and *P. berghei*. One of the cardinal features of antigen-specific immune responses elicited by infections or vaccinations is the persistence of optimally effective memory T cell and B cell responses that are inextricably linked to protracted protection. Adequately maintained pools of memory lymphocytes assure fast, effective and specific response against recurring infections. Both the induction and the maintenance of memory lymphocytes have been the subject of many elegantly conducted studies, but mainly in viral infections, and similar studies are urgently needed in malaria, caused by *Plasmodium* spp. It has been documented that the maintenance of antigen-specific immunological memory in malaria is unusual in that it takes many years of exposure to the parasites before persons start developing immune memory responses. Memory B cells that are found in persons exposed to malaria are distinct from the normal memory B cells. Although the atypical B cells appear to develop from the same precursors as normal memory B cells, they are nearly unresponsive to malaria antigens upon re-infection. Contrasting observations were made in *P. chabaudi* model, where memory B cells and plasma cells are maintained in the absence of persisting antigen and are recalled upon reinfection. Similarly, IL-10 memory responses are also maintained in the absence of repeated *P. falciparum*/*vivax* infections. However, long-lasting protective immunity induced by *P. berghei* RAS is dependent on liver resident effector INFγ+CD8 T cells that are sensitive to levels of liver-stage antigen depot. Although it has been generally accepted that memory responses to *Plasmodium* antigens are not adequately developed or maintained, as persons who survive episodes of childhood malaria are still vulnerable to either persistent or intermittent malaria infections, the topics presented during the symposium will cover results in support and against this generally held view. This is a very important topic that will interest not only the malaria community but also scientists interested in memory responses to other infections. Understanding requirements surrounding the

induction and maintenance of memory T and B cell responses to *Plasmodium* antigens is needed for future development of a much improved, hence and long-lasting malaria vaccines.

CHAIR

Urszula Krzych

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

Jean Langhorne

Crick Institute, London, United Kingdom

10:15 a.m.

CD8 T CELL MEMORY AND INFECTIONS

John Harty

University of Iowa, Iowa City, IA, United States

10:35 a.m.

MEMORY RESPONSES TO *P. CHABAUDI*

Jean Langhorne

Crick Institute, London, United Kingdom

10:55 a.m.

EVIDENCE THAT TH1-POLARIZED TFH CELLS DRIVE ATYPICAL MEMORY B CELL EXPANSION IN MALARIA

Peter Crompton

National Institutes of Health, Bethesda, MD, United States

11:15 a.m.

ASSESSING THE LONGEVITY OF ANTIMALARIAL IMMUNITY

Eleanor Riley

London School of Hygiene & Tropical Medicine, London, United Kingdom

Symposium 25

Tailored Surveillance Strategies for High-Risk Populations in Malaria Elimination Settings

Marriott - Room A706/A707

Monday, November 14, 10:15 a.m. - Noon

The aim of this symposium is to update the malaria research community with the latest approaches malaria elimination programs can use to identify and target groups at high risk of malaria. In much of southeast Asia, Latin America and southern Africa, a large proportion of malaria transmission is driven by high-risk groups that are often mobile, with transmission events occurring away from the home. Mobile and migrant populations in these settings are a key driver of importation across national boundaries and a challenge for elimination programs to identify and access. This symposium will introduce and discuss methods to identify these high-risk groups, so that surveillance strategies and interventions can be designed and targeted appropriately in order to ensure optimal allocation of limited resources and acceptance of interventions by affected communities. Formative assessments amongst key informants and potential high risk populations are a crucial first step to collect qualitative data and plan surveillance strategies. A formative assessment and survey of highly mobile populations in Nepal along the India border will be presented, demonstrating how these assessments can help programs to plan and implement targeted surveillance strategies. Another option available for programs is the use of case-control studies to determine risk factors in enough detail to guide program activities. The next speaker will present the results from case-control studies in different transmission settings in

northern Namibia and Aceh province, Indonesia. Substantial new data on the micro-epidemiology of malaria are being generated, including detailed information on travel patterns. Finding high risk groups through social network malaria surveillance is novel and may be required where populations are more difficult to access due to mobility or high barriers to health services. The next presenter will address findings from a study along the Thai-Myanmar border which used social networking methods to compare malaria prevalence and travel patterns amongst rural versus urban migrant populations. Where forest-going or other occupational groups are at high risk of infection, targeting reactive case detection activities to these networks may lead to greater access of these highly mobile groups and increased coverage of the human parasite reservoir through active surveillance. The final presenter will describe a novel strategy to adapt reactive case detection to networks of forest workers in Aceh province, Indonesia.

CHAIR

Adam Bennett

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

Jimee Hwang

President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

10:15 a.m.

FORMATIVE ASSESSMENT OF MOBILE POPULATIONS IN THE NEPAL-INDIA BORDER REGION

Prakash Ghimire

Tribhuvan University, Kathmandu, Nepal

10:35 a.m.

CASE-CONTROL TOOLS TO DETERMINE RISK FACTORS FOR MALARIA AND GUIDE TARGETED SURVEILLANCE

Jennifer Smith

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

10:55 a.m.

RESPONDENT-DRIVEN SAMPLING FOR MALARIA AMONGST MIGRANTS ALONG THE THAI-MYANMAR BORDER

David Sintasath

President's Malaria Initiative, United States Agency for International Development, Bangkok, Thailand

11:15 a.m.

REACTIVE CASE DETECTION FOR MALARIA IN HIGH RISK POPULATIONS IN ACEH, INDONESIA

Lenny Ekawati

Eijkman-Oxford Clinical Research Unit (EOCRU), Eijkman Institute for Molecular Biology, Jakarta, Indonesia

ACME Networking Lunch

Marriott - Room A701

Monday, November 14, Noon - 1 p.m.

An informal "meet and greet" for ACME members.

American Committee on Arthropod-Borne Viruses (ACAV) Faculty-Trainee Roundtable Discussions

Hilton - Rooms 201, 202, 203, 204, 205

Monday, November 14, Noon - 1 p.m.

These lunch table meetings aim to provide students and postdoctoral fellows an opportunity to interact with established arbovirologists to discuss job opportunities, related scientific work, and receive valuable career guidance and direction.

Exhibit Hall Open and Light Lunch

Marriott - International Hall

Monday, November 14, Noon - 1:45 p.m.

Poster Session 26

Poster Session A: Presentations and Light Lunch

Hilton - Grand Ballroom and Grand Salon

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Danila Vedovello¹, Leila Sabrina Ullman², Joice M. Biselli-Périco³, Tatiana E. Colombo⁴, Tauyne M. Pinheiro⁴, Roberta V. Bronzoni⁵, Adriano Mondini⁶, Ana Carolina B. Terzian⁴, João P. Araújo Jr², Francisco Chiavanotti-Neto⁷, Mauro M. Teixeira⁸, Nikos Vasilakis⁹, Betânia P. Drumond⁸, Paula Rahal³, Mauricio L. Nogueira⁴

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Elizabeth Liu¹, David Vu¹, Derek Boothroyd¹, Bryson Ndenga², Winnie Onyango², Victoria Okuta², A. Desiree LaBeaud¹

¹Stanford University School of Medicine, Stanford, CA, United States, ²Kenya Medical Research Institute, Kisumu City, Kenya

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Claudio Soto-Garita¹, Teresita Somogyi², Vicente-Santos Amanda³, Eugenia Corrales-Aguilar¹

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Old Dominion University, Norfolk, VA, United States

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David M. Vu¹, Kelsey Ripp², Noah Mutai³, Bryson A. Ndenga³, Claire Heath¹, A. Desiree LaBeaud¹

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Ananda D. Wijewickrama¹, Sunethra Gunasena², Gaveshika Abeyrathna¹, Chalaka D. Chandima¹, Damayanthi Idampitiya¹

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Debora C. Kajeguka¹, Reginald A. A. Kavisha¹, Robert D. Kaaya¹, Jaffu O. Chilongola¹, Michael Alifrangis², Franklin W. Mosha¹, Karin L. Schiøler²

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Mahesha N. Sigera Nadugala¹, Chandima Jeewandara², Neelika Malavige², Prasad H. Premaratne¹, Charitha L. Goonasekara¹

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University of Sao Paulo, Sao Paulo, Brazil

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Sanatorio de Niños, Rosario, Santa Fe, Argentina

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Naval Medical Research Center, USN, Silver Spring, MD, United States

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

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Leah C. Katzelnick¹, Angel Balmaseda², Eva Harris¹

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University of Exeter, Penryn, United Kingdom

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Tan Tock Seng Hospital, Singapore, Singapore

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Daniela V. Andrade¹, Douglas G. Widman², Aravinda M. de Silva³, Ralph S. Baric², Eva Harris¹

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Jelte Elsinga¹, Maria F. Vincenti¹, Erley Lizarazo¹, Ajay Bailey², Masja Schmidt¹, Luzlexis Arias³, Alex W. Friedrich¹, Adriana Tami¹

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Thomas Jaenisch¹, Kerstin Rosenberger¹, Phung Khanh Lam², Nguyen Tran Nam², Varun Kumar³, Lucy Lum Chai See⁴, Gabriela Maron⁵, Ida Safitri Laksono⁶, Firoz Ahmed⁷, Patricia Brasil⁸, Robert Tovar⁹, Marius Wirths¹, Maria G. Guzman¹⁰, Nguyen Than Ha Quyen², Cameron P. Simmons², Marcel Wolbers², Bridget Wills²

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Prapapun Ong-ajchaowler¹, Taweewun Hunsawong¹, Rungarun Suthangkornkul¹, Butsaya Thaisomboonsuk¹, Chonticha Klungthong¹, Wudtichai Manasatienkij¹, Stefan Fernandez², Louis R. Macareo¹, Damon W. Ellison¹

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R. Tedjo Sasmono¹, Aditya Perkasa¹, Frilasita Yudhaputri¹, Sotianingsih Haryanto², Benediktus Yohan¹, Chairin N. Ma'roef¹, Ungke Antonjaya³, Rahma F. Hayati¹, Jeremy P. Ledderman⁴, Ronald Rosenberg⁴, Khin S. Myint¹, Ann M. Powers⁴

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Laura B. Tauro

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Femi Taiwo¹, Tatiana Eversley², Sarah Jillson¹, Chidinma Okafor¹, David Adams³, Joseph Miller¹, Daniel Mauck⁴, Shawn Patrick¹

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Matthew Collins, Eileen McGowan, Ramesh Jadi, Aravinda de Silva

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Ashley R. Styczynski¹, Juliane Malta², Elisabeth Krow-Luac¹, Jadhver Percio², Martha Nobrega², Alexander Vargas², Tatiana Lanzieri¹, Priscila Leal², James Sejvar¹, Giovanini Coelho²

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Kévin Jean¹, Neil M. Ferguson¹, Maria D. Van Kerkhove², Sergio Yactayo³, William Perea³, Joseph Biey⁴, Messeret E. Shibeshi⁵, Tini Garske¹

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Mariana Leguia, Vidal Felices, Armando Torre, Carolina Guevara, Gilda Troncos, Victoria Espejo, Christopher Mores

U.S. Naval Medical Research Unit - 6 (Peru), Washington, DC, United States

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Gabriela Paz-Bailey¹, Janice Perez-Padilla¹, Matthew Lozier¹, Jorge Munoz-Jordan¹, Brad Biggerstaff¹, Olga Lorenzi¹, Carlos Garcia-Gubern², Steve Waterman¹, Luisa Alvarado², Tyler Sharp¹

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Lionel Gresh¹, Sergio Ojeda¹, Nery Sanchez¹, Guillermina Kuan², Andrea Nuñez², Aubree Gordon⁴, Angel Balmaseda³, Eva Harris⁵

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Arran Hamlet¹, Kévin Jean¹, Neil Ferguson¹, Maria Van Kerkhove², Sergio Yactayo³, William Perea³, Joseph Biey⁴, Amadou Sall⁵, Tini Garske¹

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135**CO-INFECTION STUDIES BETWEEN WEST NILE VIRUS AND CULEX FLAVIVIRUS DETERMINE AN INHIBITORY EFFECT ON WEST NILE VIRUS INFECTION**

Silvina Goenaga, Delia A. Enria, Silvana C. Levis

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(ACMCIP Abstract)

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Joseph Mberikunashé¹, Abel Brian Maponga², Heather Chamberlain³, Victor Alegana³, Andrew J. Tatem³, Deepa Pindolia⁴, Jehan Ahmed⁴, Katelyn Woolheater⁴, Charlotte Dolenz⁴, Arnaud Le Menach⁴, Abaden Svisva⁴, Jason Owen⁴, Munashe Madinga⁴, Brighton Gamba⁴

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QUANTIFYING MALARIA-ATTRIBUTABLE FEVER IN AFRICA, AND THE DIFFERENCE IN TREATMENT-SEEKING RATES FOR MALARIA-COINCIDENT FEVERS AND NON-MALARIAL FEBRILE ILLNESS

Ursula Dalrymple, Ewan Cameron, Daniel J. Weiss, Samir Bhatt, Katherine E. Battle, Donal Bisanzio, Peter W. Gething
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SEVERE FLOODING AND MALARIA TRANSMISSION: IMPLICATIONS FOR DISEASE CONTROL IN AN ERA OF GLOBAL CLIMATE CHANGE

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MALARIA IN THE FIRST TRIMESTER OF PREGNANCY: INCIDENCE AND ASSOCIATED RISK FACTORS IN BENIN, SUB-SAHARAN AFRICA

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FIRST PILOT PROJECT FOR ACTIVE SURVEILLANCE OF ASYMPTOMATIC MALARIA CASES IN HISTORICALLY ENDEMIC REGIONS IN PARAGUAY BY TWO METHODS MICROSCOPY AND MULTIPLEX SEMINESTED PCR

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RURAL-URBAN DIFFERENCES IN THE UTILIZATION OF MALARIA PREVENTIVE AND TREATMENT SERVICES BY WOMEN OF REPRODUCTIVE AGE GROUP IN NIGERIA

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GAMETOCYTE CARRIAGE IN A LOW MALARIA TRANSMISSION AREA OF GHANA

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GENETIC STRUCTURE OF *PLASMODIUM FALCIPARUM* ISOLATES IN PRE-ARTEMISININ THERAPY ERA OF INDIA

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DOES A SINGLE PERIPHERAL BLOOD SAMPLE FROM A MALARIA-INFECTED INDIVIDUAL CAPTURE ALL PARASITE GENOTYPES PRESENT IN AN INFECTION?

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VALIDATING A SNP-BASED BARCODING TOOL FOR *PLASMODIUM VIVAX* IN PAPUA NEW GUINEA

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LONGITUDINAL POOLED DEEP SEQUENCING OF *PLASMODIUM VIVAX* KELCH PROPELLER DOMAIN IN CAMBODIA REVEALS A LACK OF DIRECTIONAL SELECTION

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Malaria - Immunology

EVOLUTION OF SOLUBLE HLA-G LEVELS DURING PREGNANCY AND INFANCY IN A BENINESE POPULATION EXPOSED TO MALARIA INFECTION

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MEMORY T CELLS METABOLISM DURING CHRONIC MALARIA INFECTION

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(ACMCIP Abstract)

IL-15 COMPLEX-STIMULATED NK CELLS PROTECT MICE FROM CEREBRAL MALARIA

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(ACMCIP Abstract)

THE ROLE OF INFLAMMATION AND MICROVASCULAR DAMAGE/REPAIR IN THE PATHOGENESIS OF CEREBRAL MALARIA

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CLINICAL DEVELOPMENT OF A VAR2CSA-BASED PLACENTAL MALARIA VACCINE PLACMALVAC: QUANTIFYING VACCINE ANTIGEN-SPECIFIC MEMORY B & T CELL ACTIVITY IN BENINESE PRIMIGRAVIDAE

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THE INFLUENCE OF INHIBITORY MOLECULES ON TREG CELLS DURING *PLASMODIUM VIVAX* MALARIA

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ANTIBODIES TO *PLASMODIUM FALCIPARUM* APICAL MEMBRANE ANTIGEN-1 AND CIRCUMSPOROZOITE PROTEIN ARE ASSOCIATED WITH PROTECTION FROM HOSPITALIZATION AFTER SEVERE MALARIA DISEASE

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THE PRESENCE, PERSISTENCE AND FUNCTIONAL PROPERTIES OF DUFFY BINDING PROTEIN II ANTIBODIES ARE INFLUENCED BY HLA CLASS II ALLELIC VARIATIONS

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(ACMCIP Abstract)

UNCOMPLICATED MALARIA CHILDREN AND ADULTS WITH IN MALARIA HYPERENDEMIC AREA OF BURKINA FASO TREATMENT AND ANTIBODIES PRODUCTION

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(ACMCIP Abstract)

CELLULAR IMMUNE RESPONSES FOLLOWING CONTROLLED HUMAN MALARIA INFECTIONS BY DIRECT VENOUS INOCULATION OF CRYOPRESERVED *PLASMODIUM FALCIPARUM* SPOOROZOITES IN MALARIA-NAÏVE, MALARIA-IMMUNIZED AND SEMI-IMMUNE AFRICAN INDIVIDUALS

Gloria P. Gomez-Perez¹, Matthew B. McCall², Gemma Moncunill³, Sanne E. de Jong⁴, Pilar Requena³, Joseph J. Campo⁵, Itziar Ubillos³, Diana Barrios³, Alfons Jimenez³, Pau Cisteró³, B. Kim Lee Sim⁶, Eric James⁶, Peter Billingsley⁶, Almudena Legarda³, Peter Kreamsner⁷, Stephen L. Hoffman⁸, Bertrand Lell⁷, Pedro L. Alonso³, Maria Yazdabankhsh⁸, Benjamin Mordmüller⁹, Carlota Dobaño³

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HIGH TOTAL IGG LEVELS AND IGG1 SUBCLASS AGAINST MSP10 PROTEIN ARE ASSOCIATED TO PROTECTION IN ASYMPTOMATIC SERA FROM *P. FALCIPARUM* INFECTED PATIENTS FROM THE PERUVIAN AMAZON REGION

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IS TIMING OF *IN UTERO* EXPOSURE KEY IN PREVENTING FETAL PRIMING?

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TACI CONTRIBUTES TO *PLASMODIUM YOELII* HOST RESISTANCE BY CONTROLLING THE KINETICS OF TFH AND GC FORMATION AND ANTIBODY DEVELOPMENT

Marcela Parra, Thomas Schmidt, Jiyeon Yang, Steven Derrick, Amy Yang, Xia Liu, Shafiuddin Siddiqui, Mustafa Akkoyunlu

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IMMUNOLOGICAL EFFECT OF SEASONAL MALARIA CHEMOPREVENTION (SMC) WITH SULFADOXINE-PYRIMETHAMINE (SP) AND AMODIAQUINE (AQ) IN CHILDREN UNDER 10 YEARS IN THE SOUTHEASTERN PART OF SENEGAL

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University Cheikh Anta Diop, Dakar, Dakar, Senegal

Malaria - Modeling

MALARIA INTERVENTION SCALE-UP IN AFRICA: STATISTICAL EFFECTIVENESS PREDICTIONS FOR HEALTH PROGRAM PLANNING TOOLS, BASED ON DYNAMIC TRANSMISSION MODELLING

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UNDERSTANDING THE MECHANISM OF *P. VIVAX* HYPNOZOITES REACTIVATION

Adeshina I. Adekunle, Mykola Pinkevych, Deborah Cromer, Miles P. Davenport

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USING CELL PHONE DATA TO IMPROVE MALARIA TARGETING AND MITIGATE THE NEGATIVE EXTERNALITY OF INTERNAL POPULATION MOVEMENT

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WITHIN-HOST DYNAMICS AND SPREAD OF DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM* MALARIA

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A HIGHLY INFECTIOUS *PLASMODIUM YOELII* PARASITE, BEARING *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN

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ASSOCIATION OF SPECIFIC VAR2CSA HAPLOTYPES WITH WORSENERD BIRTH OUTCOMES IN WOMEN WITH *P. FALCIPARUM* PLACENTAL MALARIA IN MALAWI AND BENIN

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EFFICACY OF PFSPZ VACCINE AGAINST HETEROLOGOUS MALARIA CHALLENGE IN MALARIA-NAÏVE ADULTS

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IMMUNIZATION BY MOSQUITO BITE WITH RADIATION ATTENUATED SPOOROZOITES (IMRAS): A PHASE 1 CLINICAL TRIAL

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TOLERABILITY, SAFETY AND EFFICACY (ADULTS) OF ESCALATING DOSES OF PFSPZ VACCINE ADMINISTERED BY DIRECT VENOUS INOCULATION TO TANZANIAN INFANTS, CHILDREN, ADOLESCENTS AND ADULTS

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CLINICAL MANIFESTATIONS OF *PLASMODIUM FALCIPARUM* INFECTION IN TANZANIAN ADULTS AFTER CONTROLLED HUMAN MALARIA INFECTION BY INJECTION OF PFSPZ CHALLENGE

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CHEMOPROPHYLAXIS VACCINATION (CVAC) WITH SANARIA® PFSPZ CHALLENGE AND PYRIMETHAMINE: PHASE 1 TRIAL TO DETERMINE SAFETY AND PROTECTIVE EFFICACY AFTER EXPOSURE TO ONLY *PLASMODIUM FALCIPARUM* LIVER STAGES

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DEVELOPMENT OF A PFSPZ VACCINE REGIMEN TO PROTECT MILITARY PERSONNEL AGAINST *PLASMODIUM FALCIPARUM* INFECTION

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410**SAFETY, TOLERABILITY AND EFFICACY OF DOSE ESCALATING DIRECT VENOUS INOCULATION WITH RADIATION ATTENUATED *PLASMODIUM FALCIPARUM* NF54 SPOOROZOITES (PFSPZ VACCINE) IN HEALTHY MALIAN ADULTS**

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411**ANTIBODY PROFILING BY PROTEIN MICROARRAY OF HUMAN VOLUNTEERS PROTECTED BY IMMUNIZATION WITH RADIATION-ATTENUATED *PLASMODIUM VIVAX* SPOOROZOITES**

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412**CHANGING THE PARADIGM OF VACCINE DEVELOPMENT: TURNING THE TARGET PRODUCT PROFILE (TPP) ON ITS HEAD**

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Malaria/Mosquitoes - Field Prevention

413**DETERMINANTS OF INSECTICIDE TREATED NET USE AMONG UNDER-FIVE CHILDREN IN NIGERIA**

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414**TRANS STAGE DYNAMICS OF MIDGUT MICROBIOTA OF *ANOPHELES ALBIMANUS* FROM THE PACIFIC COAST OF COLOMBIA**

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415**FACTORS ASSOCIATED WITH OWNERSHIP OF INSECTICIDE TREATED NETS IN HOUSEHOLDS IN UGANDA**

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416**LABORATORY AND SEMI-FIELD EVALUATION OF A LONG-LASTING MICROBIAL LARVICIDE FOR MALARIA VECTOR CONTROL**

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417**DEVELOPMENT AND EVALUATION OF A NOVEL PIPE TRAP FOR OUTDOOR HOST-SEEKING MALARIA VECTOR SURVEILLANCE IN WESTERN KENYA**

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418**ESTIMATING BEDNET DEMAND IN TANZANIA USING A DISCRETE CHOICE EXPERIMENT**

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419**KNOWLEDGE, ACCEPTANCE AND WILLINGNESS TO PAY FOR INDOOR RESIDUAL SPRAY IN RURAL AND URBAN COMMUNITIES IN NIGER STATE, NIGERIA**

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420**EVALUATION OF THE IMPACT OF IMPLEMENTATION OF SEASONAL MALARIA CHEMOPREVENTION ON MORBIDITY AND MORTALITY IN YOUNG CHILDREN: A QUALITATIVE STUDY IN NORTHERN GHANA**

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421**THE IMPACT OF INDOOR RESIDUAL SPRAYING ON THE DENSITY AND PARITY RATE OF *ANOPHELES GAMBIAE* S.L. IN OROMIA REGION - ETHIOPIA**

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422**STRATIFICATION OF INDOOR RESIDUAL SPRAYING (IRS) IN BIKO ISLAND: METHODOLOGY AND IMPACT**

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COST-EFFECTIVENESS OF MALARIA CONTROL MEASURES: A CLUSTER-RANDOMIZED CONTROL TRIAL OF IRS AND ITNS IN MOZAMBIQUE

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DETERMINING THE PREVALENCE AND GEOGRAPHIC DISTRIBUTION OF MIXED FUNCTION OXIDASES IN ANOPHELES GAMBIAE S.L. WITH PYRETHROID RESISTANCE IN RELATION TO SITE SELECTION FOR A TRIAL OF COMBINATION LLINS IN MALI

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WHY NO NETS? AN IN-DEPTH INVESTIGATION INTO THE DECREASE IN NET ACCESS ON BIKO ISLAND AFTER BED-NET DISTRIBUTION

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DETERMINANTS OF BED NET USE CONDITIONAL ON ACCESS IN POPULATION SURVEYS IN GHANA

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Bacteriology - Enteric Infections

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JOINT DISTRIBUTION OF ACUTE RESPIRATORY INFECTION, DIARRHEA AND STUNTING AMONG CHILDREN UNDER THE AGE OF FIVE YEARS IN SOMALIA

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SHANCHOL, THE ORAL CHOLERA VACCINE IS SAFE AND IMMUNOGENIC WHEN STORED AT ELEVATED TEMPERATURES IN BANGLADESHI PARTICIPANTS

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HOST AND ENVIRONMENTAL CORRELATES OF MULTI-DRUG RESISTANCE IN KENYAN CHILDREN WITH ACUTE BACTERIAL DIARRHEA

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GENOTYPIC IDENTIFICATION OF AMPC β-LACTAMASES PRODUCTION IN DIARRHOEAGENIC E. COLI FROM CHILDREN UNDER FIVE AND MOLECULAR DOCKING OF THEIR PROTEINS

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EFFECT OF HELICOBACTER PYLORI INFECTION ON GROWTH TRAJECTORIES IN YOUNG ETHIOPIAN CHILDREN: A LONGITUDINAL STUDY

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LETHALITY OF FIRST CONTACT DYSENTERY EPIDEMICS ON PACIFIC ISLANDS

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ROTAVIRUS VACCINE TAKES SEASONAL SIGNATURE OF CHILDHOOD DIARRHEA BACK TO PRE-SANITATION ERA IN BRAZIL (AND THAT IS A GOOD THING!)

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REACTIVE VACCINATION IN NSANJE, MALAWI USING AN ORAL CHOLERA VACCINE

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HUMAN IMMUNE RESPONSES AGAINST ENTEROTOXIGENIC *ESCHERICHIA COLI* (ETEC) YGHJ MUCINASE, A PROMISING NEW ETEC VACCINE ANTIGEN

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Cestodes - Echinococcosis/Hydatid Disease

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G1 STRAIN OF *ECHINOCOCCUS GRANULOSUS* IN SUDANESE PATIENTS: A THREATENING ALARM

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Cestodes - Taeniasis and Cysticercosis

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CDNA LIBRARY FROM *TAENIA SOLIUM* RACEMOSE CYST: A NOVEL TOOL FOR TRANSCRIPTOMICS IN NEUROCYSTICERCOSIS

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RISK FACTORS FOR REFRACTORY EPILEPSY DEVELOPMENT IN NEUROCYSTICERCOSIS

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EFFICACY OF A SINGLE-DOSE OF OXFENDAZOLE AT THREE DIFFERENT FORMULATIONS AGAINST THE LARVAL STAGE OF *TAENIA SOLIUM* IN NATURALLY INFECTED PIGS

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NEUROCYSTICERCOSIS AND EPILEPSY AMONG PEOPLE LIVING NEARBY PIGS HEAVILY-INFECTED WITH CYSTICERCOSIS IN RURAL ENDEMIC PERU

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TAENIA SOLIUM AND NEUROCYSTICERCOSIS BURDEN AND DECREASED ACADEMIC PERFORMANCE ASSOCIATED WITH BRAIN INFECTION IN SCHOOL AGED CHILDREN, SOUTHWEST CHINA

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EFFICACY AND ADVERSE EVENTS OF NICLOSAMIDE IN A LARGE SCALE CYSTICERCOSIS ELIMINATION DEMONSTRATION PROGRAM ON THE NORTH COAST OF PERU

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VISUALIZING NEUROCYSTICERCOSIS AND THE IMPACT OF CYSTS ON EPILEPTOGENESIS USING INTERACTIVE 3D MODELS

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EPIDEMIOLOGIC CHARACTERIZATION OF HYMENOLEPIS NANA INFECTION IN CHILDREN AGED 2 TO 15 YEARS OLD ON THE NORTH COAST OF PERU

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491**SCALING-UP A 'PACKAGE OF CARE' FOR LYMPHATIC FILARIASIS CASES IN MALAWI USING SMS MHEALTH TOOLS FOR MORBIDITY MAPPING, AND COMMUNITY HEALTH WORKER NETWORKS AND DISTRICT HOSPITALS FOR PATIENT CARE**John Chiphwanya¹, Square Mkwanda¹, Dorothy Emmie Matipula¹, Paul Ndhlovu¹, Michelle Stanton², Hannah Betts², Charles Mackenzie², Sarah Martindale², **Louise A. Kelly-Hope²**¹Ministry of Health, Lilongwe, Malawi, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom**492****LESSONS FROM MASS DRUG ADMINISTRATION FOR THE ELIMINATION OF LYMPHATIC FILARIASIS (LF) IN AN URBAN SETTING IN HAITI****Cudjoe Bennett¹**, Carl Fayette², Franck Monestime², Alain Javel², Lior Miller¹, Sarah Craciunoiu¹, Abdel Direny², Jean-Franze Lemoine⁴¹IMA World Health, Washington, DC, United States, ²IMA World Health, Port au Prince, Haiti, ³RTI International, Washington, DC, United States, ⁴National Program to Eliminate Lymphatic Filariasis, Ministry of Public Health and Population, Port au Prince, Haiti**493****LESSONS FROM LF TRANSMISSION INTERRUPTION IN HAITI: ARE 5 ROUNDS OF ANNUAL MDA NECESSARY IN LOW-PREVALENCE SETTINGS?****Franck Monestime¹**, Carl Fayette², Alain Javel², Lior Miller¹, Sarah Craciunoiu¹, Luccene Desir³, Abdel Direny⁴, Ryan R. Hemme⁵, Jean-Aaron M. Samuels⁶, Thoma G. Streit⁸, Caitlin Worrel⁶, Kim Won⁶, Patrick Lammie⁷, Jean-Franz Lemoine⁸¹IMA World Health, Washington, DC, United States, ²IMA World Health, Port au Prince, Haiti, ³Hopital Ste. Croix/University of Notre Dame (UND), Leogane, Haiti, ⁴RTI International, Washington, DC, United States, ⁵U.S. Centers for Disease Control and Prevention, Kisumu, Kenya, ⁶U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁷NTD Support Center, the Task Force for Global Health, Atlanta, GA, United States, ⁸National Program to Eliminate Lymphatic Filariasis, Ministry of Public Health and Population, Port au Prince, Guyana**Helminths - Nematodes - Filariasis (Immunology)****494****PROJECTIONS OF ATTAINING ONCHOCERCIASIS ELIMINATION IN OGUN STATE, NIGERIA: A CROSS-SECTIONAL REPORT OF THE OV-16 SEROLOGY (RAPID DIAGNOSTIC TEST) AMONG CHILDREN BORN AFTER 10 YEARS OF TREATMENT WITH IVERMECTIN****Olabanji A. Surakat¹**, Sammy O. Sam-Wobo¹, Monsuru A. Adeleke², Oladunni N. Adekunle¹, Samuel O. Bankole¹, Ehigozie E. Egbeobawaye³, Atinuke Awoyale¹, Naomi Oyinloye¹¹Federal University of Agriculture, Abeokuta, Abeokuta, Nigeria, ²Osun State University, Osogbo, Osogbo, Nigeria, ³University of Benin Teaching Hospital, Benin-City, Nigeria**(ACMCIP Abstract)****495****INTEGRATING NOVEL PEPTIDES AND REPORTER NANOPARTICLES IN A RAPID TEST FOR ONCHOCERCIASIS****Marco Biamonte¹**, Bieke Van Dorst², Ole Lagatie², Ilona Canestrelli¹, Yongchang Ji¹, Lieven Stuyver²¹Drugs & Diagnostics for Tropical Diseases, San Diego, CA, United States, ²Janssen Diagnostics, Beerse, Belgium**496****IMMUNOREACTIVITY OF AN *ONCHOCERCA VOLVULUS* LINEAR EPITOPE IN INDIVIDUALS FROM DIFFERENT REGIONS IN GHANA****Ole Lagatie¹**, Ann Verheyen¹, Erik Nijs¹, Bieke Van Dorst¹, Linda Batsa Debrah², Alex Debrah², Lieven J. Stuyver¹¹Janssen Diagnostics, Beerse, Belgium, ²Kumasi Centre for Collaborative Research, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ³Faculty of Allied Health Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana**(ACMCIP Abstract)****Integrated Control Measures for Neglected Tropical Diseases (NTDs)****497****DEWORMING IN PRE-SCHOOL AGE CHILDREN IN NIGERIA: ARE THOSE WHO NEED IT THE MOST RECEIVING TREATMENT?****Ifeoma D. Ozodiegwu¹**, Daniel Owusu¹, Candice Collins¹, Ifeoma N. Anagbogu², Henry V. Doctor³, Megan A. Quinn¹¹East Tennessee State University, Johnson City, TN, United States, ²Federal Ministry of Health, NTDs Control and Elimination Programme, Abuja, Nigeria, ³World Health Organization, Regional Office for the Eastern Mediterranean, Cairo, Egypt**498****SITUATIONAL ANALYSIS OF NEGLECTED TROPICAL DISEASES MANAGEMENT INFORMATION SYSTEM IN ETHIOPIA****Mesfin S. Kassa**

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One Health: Interface Of Human Health/Animal Diseases

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FIELD OBSERVATIONAL STUDY EVALUATING THE SPILLOVER OF ANTIBIOTIC-RESISTANT BACTERIA BETWEEN DIFFERENT VARIETIES OF CHICKENS AND RURAL IN NORTHERN ECUADOR

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IMPACT OF REV1 LIVESTOCK VACCINATION ON THE RISK OF HUMAN BRUCELLOSIS IN AZERBAIJAN

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CLIMATE CHANGE AND VECTOR-BORNE DISEASES: USE OF PARTICIPATORY EPIDEMIOLOGY TO INVESTIGATE EXPERIENCES IN VULNERABLE, CATTLE-KEEPING HOUSEHOLDS IN TANZANIA

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ONE HEALTH WORLDWIDE: EMERGING INFECTIOUS DISEASES, GLOBAL HEALTH VETERINARIANS, AND ZONOTIC SURVEILLANCE

Kali Holder, Devin Tunseth, Megan Vodzak, Benjamin Norton, Suzan Murray
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542**SEROPREVALENCE AND THE RISK FACTORS ASSOCIATED WITH TOXOPLASMOSIS IN WOMEN RECEIVED ANTENATAL CONSULTATION (ANC) AND DOMESTIC CARNIVORES IN DAKAR**Fatoumata Coulibaly¹, Abdrée Ndour², Jean-Louis Ndiaye¹¹Universite Cheick Anta Diop Dakar, Dakar, Senegal, ²Ecole Veterinaire Dakar, Dakar, Senegal**543****UPDATE Q FEVER STATUS FROM THE RUMINANT PLACENTAS, THAILAND 2014-2015**Pattarin Opaschaitat¹, Sawanya Nu-iat¹, Seksit Singjam², Petcharat Sakdinun³, Kanthanis Limwibulpong⁴, Pornpun Laolue⁵, Yaowarat Sawasdee⁶, Gamonsiri Coygasem⁷, Netchanok Jiwakanon⁸, Maza John⁹, Samuel Yingst¹⁰¹National Institute of Animal Health, Bangkok, Thailand, ²Veterinary Research and Development Center, Lower-North Region, Pitsanulok, Thailand, ³Veterinary Research and Development Center, West Region, Ratchaburi, Thailand, ⁴Veterinary Research and Development Center, East Region, Chonburi, Thailand, ⁵Veterinary Research and Development Center, Upper North Region, Lampang, Thailand, ⁶Veterinary Research and Development Center, Lower Northeast Region, Surin, Thailand, ⁷Veterinary Research and Development Center, South Region, Nakornsrithammarat, Thailand, ⁸Veterinary Research and Development Center, Upper Northeast Region, Khonkaen, Thailand, ⁹Epidemiology and Disease Surveillance, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ¹⁰Purdue University College of Veterinary Medicine, West Lafayette, IN, United States**544****DOCUMENTING THE SEROPREVALENCE OF ZONOTIC AND VECTOR BORNE DISEASES IN RURAL NICARAGUA**Rebecca S. Fischer¹, Christiane Duttman², William Jiron Toruno², Melissa N. Garcia¹, Rodion Gorchakov¹, Sarah M. Gunter¹, Kristy O. Murray¹¹Baylor College of Medicine, Houston, TX, United States, ²Universidad Nacional Autónoma de Nicaragua, Leon, Nicaragua**Protozoa - Ameba/Giardia****545****SURVEILLANCE OF AMOEBIC KERATITIS-CAUSING ACANTHAMOEBAE FOR BACTERIAL ENDOSYMBIONTS**Andrew Purssell¹, Nessikha Karsenti², Rachel Lau³, Filip Ralevski³, Ann Chong-Kit³, Andrea K. Boggild²¹University of British Columbia, Vancouver, BC, Canada, ²University of Toronto, Toronto, ON, Canada, ³Public Health Ontario Laboratories, Toronto, ON, Canada**(ACMCIP Abstract)****546****OPTIMIZED METHODS OF GENOMIC DNA EXTRACTION AND MYCOPLASMA DECONTAMINATION FROM DIFFERENT SPECIES OF PATHOGENIC AMOEBAE**Biniam Hagos, Ioana Brasov, Robert E. Molestina
BEI Resources, ATCC, Manassas, VA, United States**547****DIAGNOSTIC ACCURACY OF AMEBIC COLITIS BY COLONOSCOPY**Yasuaki Yanagawa¹, Koji Watanabe¹, Naoyoshi Nagata¹, Kumiko Tsukui², Seiki Kobayashi³, Tomoyoshi Nozaki², Hiroyuki Gatanaga¹, Yoshimi Kikuchi¹, Shinichi Oka¹¹National Center of Global Health and Medicine, Tokyo, Japan, ²National Institute of Infectious Disease, Tokyo, Japan, ³Keio University, Tokyo, Japan**548****GUT MICROBIOME CHANGE PRIOR TO THE ONSET OF AMEBIASIS**Carol A. Gilchrist¹, Brittany N. Schneider¹, Masud Alam², Jeffrey R. Donowitz³, Mamun Kabir², William A. Petri Jr¹, Rashidul Haque²¹University of Virginia, Charlottesville, VA, United States, ²International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, ³Children's Hospital of Richmond at Virginia Commonwealth University, Richmond, VA, United States**549****GENOMIC AND TRANSCRIPTOMIC COMPARISON OF CLINICAL AND NON-CLINICAL STRAINS OF "BRAIN-EATING" AMEBA NAEGLERIA FOWLERI**

Ibne K. Ali, Alyssa Kelley, Shantanu Roy

Centers for Disease Control and Prevention, Atlanta, GA, United States

550**IMPACT OF NOVEL ENTAMOEBEA SPECIES ON DIARRHEAL INFECTIONS IN SOUTH AFRICA**Renay Ngoben¹, Samie Amidou¹, Shannon Moonah², William A. Petri², Carol Gilchrist²¹University of Venda, Thohoyandou, South Africa, ²University of Virginia, Department of Medicine, Division of Infectious Diseases, Charlottesville, VA, United States**Protozoa - Other Protozoa****551****WHOLE GENOME SEQUENCING OF CYCLOSPORA CAYETANENSIS OOCYSTS PURIFIED FROM HUMAN STOOL SAMPLES**Fernanda Nascimento¹, Yvonne Qvarnstrom¹, Yuping Wei-Pridgeon¹, Wen Li¹, Hediye Nese Cinar², Helen R. Murphy², Gopal Gopinath², Alexandre J. da Silva², Delynn Moss¹, Michael J. Arrowood¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Food and Drug Administration, Laurel, MD, United States**552****GENOME-WIDE SEARCH TO IDENTIFY IMMUNODOMINANT BABESIA MICROTI ANTIGENS FOR DIAGNOSTICS AND VACCINATION**Nitin K. Verma¹, Richard Skelton¹, Essuman Edward¹, Hong Zheng¹, Ankit Puri¹, Peter Krause², Sanjai Kumar¹¹CBER/Food and Drug Administration, Silver Spring, MD, United States, ²Yale School of Public Health and Yale School of Medicine, New Haven, CT, United States**553****GAMMA IRRADIATED SOLUBLE EXTRACTS OF T. GONDII TACHYZOITES INDUCED BETTER HUMORAL AND CELLULAR IMMUNE RESPONSE DUE TO PREFERENTIAL UPTAKE BY APCS SCAVENGER RECEPTORS**Andrea da Costa¹, Nahia E. Zorgi², Nanci do Nascimento³, Andrés J. Galisteo Jr.¹, Heitor F. de Andrade Jr.¹¹Instituto de Medicina Tropical de São Paulo, São Paulo, Brazil, ²Instituto de Ciências Biomédicas da Universidade de São Paulo, São Paulo, Brazil, ³Instituto de Pesquisas Energéticas e Nucleares, São Paulo, Brazil**(ACMCIP Abstract)**

554**PHYLOGENETIC ANALYSIS OF *BLASTOCYSTIS SPP* ISOLATES IN CLINICAL STOOL SAMPLES FROM BRAZIL**

Ronaldo Grysczek¹, Gessica Melo², Fabiana Paula³, Fernanda Malta⁴, Celina Maruta³, Paulo Criado³, Marcello Magri³, Vera Castilho³, Elenice Goncalves³
¹University of Sao Paulo Medical School, Sao Paulo, Brazil, ²Instituto de Medicina Tropical de Sao Paulo, Sao Paulo, Brazil, ³Hospital das Clinicas, Faculdade de Medicina, Universidade de Sao Paulo, Sao Paulo, Brazil, ⁴Hospital das Clinicas, University of Sao Paulo Medical School, Sao Paulo, Brazil

555**DISTRIBUTION AND HUMAN-INFECTIVE POTENTIAL OF *CRYPTOSPORIDIUM*, *GIARDIA DUODENALIS* AND *ENTEROCYTOZON BIENEUSI* GENOTYPES IN STORM OVERFLOW AND WASTEWATER IN SHANGHAI, CHINA**

Chengchen Huang¹, Yaoyu Feng¹, Na Li¹, Lihua Xiao²
¹East China University of Science and Technology, Shanghai, China, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

556**DETECTION OF *CYCLOSPORA CAYETANENSIS* IN FOOD AND CLINICAL SAMPLES USING A GELIFIED REAL-TIME PCR ASSAY**

Alexandre J. da Silva¹, Fernanda S. Nascimento², Yvonne Qvarnstrom², Hediye N. Cinar¹, Gopal Gopinath¹, Marco A. Krieger³, Rita C. Rampazzo³, Alexandre D. Costa³, Helen Murphy¹
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(ACMCIP Abstract)

557**AMIXICILE: A POTENTIAL ALTERNATIVE TREATMENT FOR TRICHOMONIASIS**

Eisha Jain, Edna Zaenker, Katelynn Atwood, Catherine Gineste, Paul Hoffman, Cirle Warren
University of Virginia, Charlottesville, VA, United States

558**DRUG RESISTANCE IN *BABESIA* PARASITES THAT INFECT HUMANS**

Matthew Simon¹, Alexis Dziedzic¹, Lars Westblade¹, Audrey Schuetz¹, Stephen Jenkins¹, J. Stone Doggett², Laura Kirkman¹
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559**A RAPID MOLECULAR TEST TO DIAGNOSE *TOXOPLASMA GONDII* IN MICE AND HUMAN SAMPLES**

Janet Acosta¹, Jaeson S. Calla-Choque¹, Andrea Diestra¹, Noelia Angulo¹, Francesca Schiaffino², Maritza Calderón¹, Alejandro Castellanos-Gonzalez², Roberth H. Gilman², Toxoplasmosis Working Group in Peru
¹Cayetano Heredia University, Lima, Peru, ²Johns Hopkins University, Baltimore, MD, United States, ³University of Texas Medical Branch, Galveston, TX, United States

(ACMCIP Abstract)

560**IMMUNOBLOT FOR DIFFERENTIATION BETWEEN ACUTE AND CHRONIC INFECTION OF *TOXOPLASMA GONDII* USING A MURINE MODEL**

Yomara Romero¹, Noelia Angulo¹, Edith Arocutipa¹, Janet Acosta¹, Miguel Mogollon², Alejandro Florentini¹, Cristina Montoya², Raul Ynocente², Jaeson S. Calla-Choque¹, Juan Jimenez², Maritza Calderón¹, Roberth H. Gilman³, Toxoplasmosis Working Group in Peru
¹Cayetano Heredia University, Lima, Peru, ²Universidad Nacional Mayor de San Marcos, Lima, Peru, ³Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

561**STANDARDIZATION OF AN ON-BEAD SANDWICH ELISA FOR THE DETECTION OF *TOXOPLASMA GONDII* ANTIGEN SAG1**

Cusi Ferradas¹, Edith Malaga¹, Noelia Angulo¹, Yomara Romero¹, Alejandro Florentini¹, Cristina Montoya², Raul Inocente², Miguel Mogollon², Juan Jimenez², Maritza Calderon¹, Robert H. Gilman³
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Universidad Nacional Mayor de San Marcos, Lima, Peru, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

(ACMCIP Abstract)

562**URBAN PIGEONS (*COLUMBA LIVIA DOMESTICA*) AS SOURCE OF ENVIRONMENTAL SPREAD OF *CRYPTOSPORIDIUM* WITH ZONOTIC POTENTIAL**

Teresa Cristina Bomfim, Alexandre de Pina Costa
Federal Rural University of Rio de Janeiro, Veterinary Institute, Department of Animal Parasitology, Rio de Janeiro, Brazil

563**GENETIC DIVERSITY AND TRANSMISSION DYNAMICS OF *CRYPTOSPORIDIUM* PARASITES IN CATTLE OF SOUTHERN GHANA**

Bethel Kwansa-Bentum, Fred Aboagye-Antwi, Henrietta T. Kwansa-Bentum, Ato Mensah, Eric A. Okrah, Joseph Otchere, Michael D. Wilson
University of Ghana, Legon, Accra, Ghana

564**PATHOGENICITY OF *DIENTAMOEBIA FRAGILIS***

Damien Stark¹, Joel Barratt², John Ellis²
¹St. Vincent's Hospital, Darlinghurst, Australia, ²University of Technology Sydney, Broadway, Australia

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Trematodes - Other

565**COMPARISON OF TWO RECOMBINANT ANTIGENS FOR DIAGNOSIS OF CHRONIC HUMAN FASCIOLIASIS**

Angel Hsu¹, Isabel McAuliffe², Lorna Cruz³, Ana M. Espino³, Sukwan Handali²
¹Emory University, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³University of Puerto Rico, San Juan, PR, United States

566**APICAL SODIUM-DEPENDENT BILE ACID TRANSPORTER OF *CLONORCHIS SINENSIS*: 3D STRUCTURE AND FUNCTIONALITY**

Won Gi Yoo, Fuhong Dai, Ji-Yun Lee, Sung-Jong Hong
Chung-Ang University, Seoul, Republic of Korea

OPISTHORCHIS FELINEUS HEMOZOIN DEPRESS INTEGRIN CELL SURFACE EXPRESSION ON CHOLANGIOCYTES

Irina Saltykova¹, Alexandra Pershina¹, Irina Salkina¹, Victoria Mann², Sergey Ryzhov³, Paul Brindley²

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(ACMCIP Abstract)

HYDROLOGICAL IMPACTS ON DISEASE TRANSMISSION OF OPISTHORCHIS VIVERRINI IN THE LAWA LAKE COMPLEX: A MODELLING PERSPECTIVE

Tomas Leon¹, Robert C. Spear¹, Kittiwet Kuntiyawichai², Vichian Plermakamon², Banchob Sripa²

¹University of California Berkeley, Berkeley, CA, United States, ²Khon Kaen University, Khon Kaen, Thailand

OPISTHORCHIS VIVERRINI INFECTION EXACERBATES THE SEVERITY OF DIABETIC LIVER INJURY AND NON-ALCOHOLIC FATTY LIVER DISEASE

Apisit Chaidee¹, Sudarat Onsurathum¹, Ornuma Haonon¹, Patchareewan Pannangpetch¹, Chatlert Pongchaiyakul¹, Victoria H. Mann², Chawalit Pairojikul¹, Wannaporn Ittiprasert², Paul J. Brindley², Somchai Pinlaor¹

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DEVELOPMENT OF A NOVEL METHOD FOR OPISTHORCHIS VIVERRINI DNA DETECTION IN URINE BY PCR ASSAY

Andrew Ancharski¹, Paiboon Sithithaworn², Chanika Worasith², Nadda Kiatsopit², Elizabeth Carlton¹

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Trematodes - Schistosomiasis - Cellular and Molecular Biology**MOLECULAR CHARACTERIZATION OF THE LARVAL PHASE OF SCHISTOSOMA MANSONI IN BIOMPHALARIA GLABRATA MOLLUSKS UNDER EXPERIMENTAL CONDITIONS**

Marcia Oliveira Casotti¹, Roseli Tuan Tuan¹, Michele Gomes², Emmanuel Dias-Neto², João Renato Rebello Pinho², Fabiana Martins Paula², Flair José Carrilho José Carrilho², Expedito José Albuquerque Luna³, Ronaldo Cesar Borges Borges Gryschek², Maria Cristina Espírito-Santo⁴

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(ACMCIP Abstract)

IDENTIFICATION OF GENES TARGET OF REGULATION BY MAPKS IN SCHISTOSOMA MANSONI

Sandra G. Gava¹, Naiara C. Paula¹, Anna C. Salim¹, Flávio M. Araújo¹, Guilherme C. Oliveira², Marina M. Mourão¹

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HISTONE MODIFYING ENZYMES ARE POTENTIAL THERAPEUTIC TARGETS AGAINST SCHISTOSOMIASIS AS IT IS ESSENTIAL TO VIABILITY AND REPRODUCTION

Pedro H. Aguiar¹, Naiara C. Paula¹, Fernanda S. Coelho¹, Policarpo A. Sales¹, Juliano M. Araujo¹, Luiza F. Andrade¹, Wolfgang Sippl², Manfred Jung³, Antonello Mai⁴, Raymond J. Pierce⁵, Guilherme C. Oliveira⁶, Marina M. Mourao¹

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(ACMCIP Abstract)

CLONING AND CHARACTERIZATION OF A SCHISTOSOMA JAPONICUM AQUAGLYCEROPORIN THAT FUNCTIONS IN OSMOREGULATION

Yuzheng Huang¹, Wei Li², Chunrong Xiong³, Ying Zhang³, Kun C. Liu⁴, Peng Cao¹

¹Jiangsu Province Academy of Traditional Chinese Medicine, Nanjing, China, ²Jiangsu Institute of Parasitic Diseases, Wuxi, China, ³Jiangsu, Wuxi, China, ⁴Johns Hopkins Malaria Research Institute, Department Molecular Microbiology and Immunology, Bloomberg School of Public Health, The Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

THERAPEUTIC EXPLOITATION OF IPSE, A UROGENITAL PARASITE-DERIVED HOST MODULATORY PROTEIN, FOR CHEMOTHERAPY-INDUCED HEMORRHAGIC CYSTITIS

Evaristus C. Mbanefo¹, Luke Pennington², Theodore Jardetzky², Michael Hsieh¹

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SCHISTOSOMA HAEMATOBIIUM IPSE, A CANDIDATE PRO-ONCOGENIC FACTOR

Evaristus Mbanefo¹, Irina Saltykova², Luke Pennington³, Theodore Jardetzky³, Paul Brindley², Michael Hsieh¹

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(ACMCIP Abstract)

PROTON CHANNELS IN BIOMPHALARIA GLABRATA EMBRYONIC CELL MEMBRANES: PUTATIVE TARGET FOR SCHISTOSOMA MANSONI LARVAL TRANSFORMATION PROTEINS

Utibe R. Buckram-Wright, Brandon J. Wright, Jackson B. Meyer, Timothy P. Yoshino

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(ACMCIP Abstract)

CHARACTERIZATION AND FUNCTIONAL STUDIES OF SERINE/THREONINE PROTEIN PHOSPHATASE 1 (PP1) ENCODING GENES FROM SCHISTOSOMA JAPONICUM

Min Hu, Lu Zhao, Xin He, Junlong Zhao, Qing Ye

Huazhong Agricultural University, Wuhan, China

INTERACTIONS BETWEEN HOST IMMUNE STATUS AND PARASITE METABOLIC ACTIVITY IN *SCHISTOSOMA MANSONI*

Kassandra S. Hunter, Ellen Fox, Stephen J. Davies

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(ACMCIP Abstract)

DUAL RNA-SEQ RESPONSES OF FIELD-DERIVED SPECIMENS OF THE AFRICAN SNAIL *BIOMPHALARIA PFEIFFERI* TO INFECTION WITH THE HUMAN PARASITE, *SCHISTOSOMA MANSONI* PROVIDE INSIGHT INTO HOST-PARASITE RELATIONSHIPS AND REPRODUCTIVE IMPLICATIONS OF PARASITISM

Sarah K. Buddenborg¹, Lijing Bu¹, Si-Ming Zhang¹, Gerald M. Mkoji², Eric S. Loker¹

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SEX-BIASING GENE DRIVE TO ELIMINATE SCHISTOSOMES; A PROPOSAL

Sergey Iordanskiy¹, Kevin M. Esvelt², Paul J. Brindley¹

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(ACMCIP Abstract)

Water, Sanitation, Hygiene and Environmental Health

ADVANCING WATER TREATMENT FOR RESOURCE RECOVERY TO ENHANCE DISEASE MITIGATION

Elysse Noel Grossi-Soyster, A. Desiree LaBeaud

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PREVALENCE OF SOIL TRANSMITTED HELMINTHS IN WATER, SANITATION AND HYGIENE (WASH) SUPPORTED AND NON-SUPPORTED SCHOOLS IN OGUN STATE, NIGERIA

Hammed O. Mogaji¹, Gabriel A. Dedeke¹, Jaiyeola O. Omotola¹, Quudus A. Yussuf², Hakeem A. Yussuf², Dorcas O. Adeaga³, Johnson E. Monday⁴, Uwem F. Ekpo¹

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WATER SUPPLY AND SANITATION CONDITIONS IN RURAL SOUTHERN MOZAMBIQUE AND ITS ASSOCIATION WITH MORBIDITY AND MORTALITY INDICATORS DURING 2012-2015

Berta Grau-Pujol¹, Augusto Nhabomba², Llorenç Quintó³, Aina Casellas³, Carme Subirà³, Charfudin Sacoar², Ricard Gine⁴, Jose Muñoz³

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ASSOCIATION OF HOUSEHOLD, COMMUNITY AND SCHOOL SANITATION WITH HOOKWORM INFECTIONS AMONG SCHOOL-AGED CHILDREN IN KWALE COUNTY, KENYA

William E. Oswald¹, Katherine E. Halliday¹, Carlos Mcharo², Paul M. Gichuki³, Stefan Witek-McManus¹, Elizabeth Allen¹, Sammy Njenga³, Charles Mwandawiro³, Roy Anderson⁴, Rachel Pullan¹

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THE DRIVERS OF THE CHOLERA EPIDEMIC IN BAUCHI, NORTHEAST NIGERIA 2014

Hannatu Janada Dimas¹, Patrick Nguku¹, Charles Akatobi Akatobi², Olufemi Ajumobi³

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PREVALENCE OF ROTAVIRUS INFECTION OVER TIME IN RURAL, COASTAL ECUADOR

Alicia N. Kraay, Joseph N. Eisenberg

University of Michigan Ann Arbor, Ann Arbor, MI, United States

A RANDOMIZED CONTROLLED TRIAL OF A HOSPITAL-BASED HANDWASHING WITH SOAP AND WATER TREATMENT INTERVENTION (CHOB17) TO REDUCE CHOLERA AMONG HOUSEHOLD CONTACTS OF CHOLERA

Christine Marie George¹, Shirajum Monira², David A. Sack², Mahamud-ur Rashid², K.m. Saif-Ur-Rahman², Toslim Mahmud², Zillur Rahman², Munshi Mustafiz², Sazzadul Islam Bhuyian², Peter J. Winch¹, Elli Leontsini¹, Jamie Perin¹, Farzana Begum², Fatema Zohura², Shwapon Biswas², Tahmina Parvin², Xiaotong Zhang¹, Danielle Jung¹, Danielle Jung¹, R. Bradley Sack¹, R. Bradley Sack¹, Munirul Alam²

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THE ASSOCIATION BETWEEN HEAVY RAINFALL EVENTS AND DIARRHEAL DISEASE: THE INFLUENCE OF URBAN AND RURAL GEOGRAPHY

Aniruddha Deshpande, Howard H. Chang, Karen Levy

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MULTI-SECTORAL COLLABORATION BETWEEN THE NTD AND WASH SECTORS: EXPERIENCE FROM UGANDA

Angelia Sanders¹, Edridah Tukahebwa², Peace Habomugisha³, Patrick Turaguma², E. Kelly Callahan¹

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BURDEN OF DISEASE ATTRIBUTED TO WATER-BORNE TRANSMISSION OF SELECTED GASTROINTESTINAL PATHOGENS, AUSTRALIA 2010

Katherine B. Gibney, Joanne O'Toole, Martha Sinclair, Karin Leder

Monash University, Melbourne, Australia

DETECTING AND ENUMERATING SOIL-TRANSMITTED HELMINTH EGGS IN SOIL: NEW METHOD DEVELOPMENT AND RESULTS FROM FIELD TESTING IN BANGLADESH AND KENYA

Lauren Steinbaum¹, Laura Kwong¹, Ayse Ercumen², Makeda S. Negash², Amira J. Lovely², Sammy M. Njenga³, Alexandria B. Boehm¹, Amy J. Pickering¹, Kara L. Nelson²

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EVALUATING BEHAVIOR CHANGE IN SINGLE AND COMBINED INTERVENTIONS OF A LARGE-SCALE WATER, SANITATION, HYGIENE AND NUTRITION INTERVENTION TRIAL (WASH BENEFITS), IN RURAL BANGLADESH

Sarker Masud Parvez¹, Rashidul Azad¹, Md. Mahbubur Rahman¹, Leanne Unicomb¹, Pavani K. Ram², Abu Mohd Naser³, Christine P. Stewart⁴, Musarrat J. Rahman¹, Kaniz Jannat¹, Elli Leonstini⁵, Peter Winch⁵, Stephen P. Luby⁶

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WHO CAN AFFORD GPS POINTS? SCALING A VILLAGE-LEVEL WATER ACCESS INFORMATION SYSTEM IN RURAL ZAMBIA

Laurie Markle¹, Amy Tiwari¹, Alexandra Hoehne², Abel Manangi³, Engervell Musonda³, Oswald Katooka³, Rabson Zimba¹, Illenga Nhkata¹, Nicolas Osbert², Anna M. Winters¹, Benjamin Winters¹, David Larsen¹

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QUANTIFYING THE ROLE OF FAILING WATER AND SANITATION INFRASTRUCTURE ON HEALTH, HEALTHCARE COSTS AND SOCIETAL WELLBEING DURING VARYING DISASTER SCENARIOS

Alejandro Cravioto¹, Warren Stevens¹, Edward J. Mills², Jamie I. Forrest², Aranka Anema³, Tracey Koehlmoos⁴

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Late Breaker Abstract Session 27

Late Breakers in Clinical Tropical Medicine and Global Health

Marriott - Imperial A

Monday, November 14, 12:15 p.m. - 1:30 p.m.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Late Breaker Abstract Presentation Schedule booklet in your registration packet for the presentation schedule.

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Jason D. Maguire

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Symposium 28

Accelerate to Equal: Engaging Women in Vector Control

Marriott - Marquis A

Monday, November 14, 12:15 p.m. - 1:30 p.m.

Recent expansion of Zika virus reinforces the need for innovation in vector control. Engaging women in vector control is more widely recognized as a critical component to reducing vector-borne disease transmission. In least developed countries (LDC), involving women in community and programmatic vector control may also be a path toward their economic independence. Women are the primary caretakers of households and are better positioned to understand the determinants of uptake of specific vector control strategies. As such, they may provide innovative solutions to improve the sustainability of these strategies. Little research has focused on the role women play in the household decision-making process for investing in control strategies or their broader role in leading vector control activities and programs. This symposium will present steps towards transforming vector control programs at the household, community and programmatic levels through investing in women. Symposium presenters will discuss: 1) The U.S. President's Malaria Initiative Africa Indoor Residual Spraying Project (PMI AIRS) has embraced gender equality and female empowerment through quantifying improved uptake of IRS when more women are employed. Starting in 2014 the project implemented systematic gender-equitable policies; results show the percent of women hired as spray operators, team leaders and clinicians has increased. 2) Results of household surveys conducted in Sumba Island, Indonesia and western Kenya will be presented. These surveys, which were contextualized by key informant interviews and focus group discussions, investigated barriers to and promoters of engaging women in innovative vector control. This work is part of a broader initiative by the Bill & Melinda Gates Foundation to put women at the center of development. 3) As part of a Liverpool School of Tropical Medicine project, an intervention led by women in two villages with a history of sleeping sickness endemicity in NW Uganda used cost-effective and simple-to-use tools known as 'tiny targets' to reduce tsetse fly numbers. Feasibility, sustainability, cost-effectiveness and participants' perceptions of managing this intervention were assessed. 4) The Bayer Corporation, in partnership with Rufisque Clinic and a women's association, Banaju Gox Rufisque in Senegal, has shown a dual benefit to engaging women in vector control - reduction of malaria vectors and economic independence for women through sustainable business practices.

CHAIR

Mary H. Hayden

National Center for Atmospheric Research, Boulder, CO, United States

Emily C. Zielinski-Gutierrez

Centers for Disease Control and Prevention, Nairobi, Kenya

12:15 p.m.

EMBRACING GENDER EQUITY TO ENHANCE MALARIA CONTROL PROGRAMS

Allison Belevire

United States Agency for International Development/President's Malaria Initiative, Arlington, VA, United States

12:35 p.m.

WOMEN'S EMPOWERMENT AND PARTICIPATION IN VECTOR CONTROL STRATEGIES TO REDUCE MALARIA IN WESTERN KENYA AND EAST SUMBA, INDONESIA

Kacey C. Ernst

University of Arizona, Tucson, AZ, United States

12:55 p.m.

WOMEN IN CONTROL OF TSETSE CONTROL: A PILOT INTERVENTION IN NORTHWESTERN UGANDA

Vanja Kovacic

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

1:15 p.m.

VECTOR BORNE DISEASE MANAGEMENT – MAKING A DIFFERENCE WITH THE COMMUNITY

Jacqueline M. Applegate

Bayer, Lyon, France

Meet the Professors 29

Meet the Professors A: Enigmatic and Teaching Cases

Marriott - Room M103/M104/M105

Monday, November 14, 12:15 p.m. - 1:30 p.m.

Students and trainees are especially encouraged to attend these interactive sessions, which are open to all meeting attendees.

The speakers will present a clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose.

CHAIR

David R. Boulware

University of Minnesota, Minneapolis, MN, United States

PRESENTER

Joseph R. Zunt

University of Washington, Seattle, WA, United States

Courses Committee Meeting

Marriott - Room M304

Monday, November 14, 12:15 p.m. - 1:30 p.m.

Kean Fellowship Committee Meeting

Marriott - Room M303

Monday, November 14, 12:15 p.m. - 1:30 p.m.

Poster Session A Viewing

Hilton - Grand Ballroom and Grand Salon

Monday, November 14, 1:45 p.m. - 7 p.m.

Scientific Session 30

Filariasis: Molecular Biology, Immunology and Diagnostics

Marriott - Imperial A

Monday, November 14, 1:45 p.m. - 3:30 p.m.

CHAIR

Laura E. Kropp

Uniformed Services University, Bethesda, MD, United States

Roshanak T. Semnani

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

1:45 p.m.

596

A RANDOMIZED, PLACEBO-CONTROLLED, DOUBLE-BLIND PILOT STUDY OF SINGLE-DOSE HUMANIZED ANTI-IL5 ANTIBODY (RESLIZUMAB) FOR THE REDUCTION OF EOSINOPHILIA FOLLOWING DIETHYLCARBAMAZINE TREATMENT OF LOA LOA INFECTION

Fanny Legrand¹, Jessica Herrick², Michelle Makiya¹, Shakuntala Rampertaap³, Jennifer Stoddard³, JeanAnne Ware¹, Michael P. Fay⁴, Nicole Holland-Thomas⁵, Thomas B. Nutman¹, Amy Klion¹

¹National Institutes of Health, Bethesda, MD, United States, ²University of Illinois at Chicago, Chicago, IL, United States, ³Department of Laboratory Medicine, National Institutes of Health, Bethesda, MD, United States, ⁴BioStatistics Research Branch, DCR, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ⁵Clinical Research Directorate/Clinical Monitoring Research Program, Leidos Biomedical Research, Inc., NCI, Frederick, MD, United States

2 p.m.

597

MOLECULAR DETECTION OF ONCHOCERCA VOLVULUS IN SKIN BIOPSIES FROM THE DEMOCRATIC REPUBLIC OF THE CONGO (DRC)

Jessica Prince-Guerra¹, Vitaliano Cama², Nana Wilson³, Josias Likwela⁴, Nestor Ndakala Gyamba⁵, Jacques Muzinga wa Muzinga⁵, Nicholas Ayeabazibwe⁶, Yassa D. Ndjakani⁷, Naomi Awaca Pitchouna⁸, Dieudonné Mumba Ngoyi⁹, Antoinette K. Tshetu¹⁰, Paul T. Cantey²

¹ASM/Centers for Disease Control and Prevention Post-Doctoral Fellowship, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Epidemic Intelligence Service, Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Programme National de la Lutte contre l'Onchocercose, Kisangani, Democratic Republic of the Congo, ⁵Field Epidemiology and Laboratory Training Program, Kinshasa, Democratic Republic of the Congo, ⁶African Field Epidemiology Network, Kampala, Uganda, ⁷Division of Global Health Protection, Centers for Disease Control and Prevention, Kinshasa, Democratic Republic of the Congo, ⁸Programme Nationale de la Lutte contre l'Onchocercose, Kinshasa, Democratic Republic of the Congo, ⁹Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo, ¹⁰Ecole de Santé Publique, Kinshasa, Democratic Republic of the Congo

2:15 p.m.

598

TOLL-LIKE RECEPTOR 2 EXPRESSION ON IMMUNE CELLS IS ELEVATED IN CURED ASYMPTOMATIC INDIVIDUALS IN LYMPHATIC FILARIASIS

Jubin Osei-Mensah¹, Manuel Ritter², Linda Batsa-Debrah¹, Anna Albers², Yusif Mubarik¹, Laura Layland², Kenneth Pfarr², Achim Hoerauf², Alex Debrah³

¹Kumasi Centre for Collaborative Research in Tropical Medicine, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ²Institute for Medical Microbiology, Immunology and Parasitology, University Hospital of Bonn, Bonn, Germany, ³Faculty of Allied Health Sciences of Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

(ACMCIP Abstract)

2:30 p.m.

599

IN VITRO-GENERATED AND EX VIVO-ISOLATED HUMAN DENDRITIC CELLS RESPOND SIMILARLY TO LIVE MICROFILARIAE OF *BRUGIA MALAYI*

Kathleen R. Elliott, Prakash Babu Narasimhan, Sasisekhar Bennuru, Thomas B. Nutman, Roshanak Tolouei Semnani
National Institutes of Health, Bethesda, MD, United States

2:45 p.m.

600

ONCHOCERCA VOLVULUS PROTEOME-WIDE LINEAR EPITOPE SCANNING USING HIGH-DENSITY PEPTIDE MICROARRAYS AND CONFIRMATION OF IMMUNODOMINANT MOTIFS BY ELISA

Ole Lagatie, Bieke Van Dorst, Lieven J. Stuyver
Janssen Diagnostics, Beerse, Belgium

(ACMCIP Abstract)

3 p.m.

601

THE EFFECT OF *L. SIGMODONTIS* INFECTION ON IGE-MEDIATED ANAPHYLAXIS IN SENSITIZED MICE

Laura E. Kropp, Edward Mitre
Uniformed Services University, Bethesda, MD, United States

3:15 p.m.

602

MIXTURE MODELING TO DETERMINE POPULATION-SPECIFIC CUTOFFS FOR IMMUNOLOGIC ASSAYS IN NEGLECTED TROPICAL DISEASE SETTINGS APPROACHING ELIMINATION

Sarah M. Sullivan¹, Howard H. Chang¹, Amanda Barry², Patrick J. Lammie³, Melissa Torres⁴, Kimberly Y. Won², Katherine Gass³
¹*Rollins School of Public Health, Emory University, Atlanta, GA, United States*,
²*Centers for Disease Control and Prevention, Atlanta, GA, United States*,
³*NTD Support Center, Task Force for Global Health, Decatur, GA, United States*,
⁴*Smith College, Northampton, MA, United States*

Scientific Session 31

West Nile and Other Flaviviruses

Marriott - Imperial B

Monday, November 14, 1:45 p.m. - 3:30 p.m.

CHAIR

Doug E. Brackney
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

Kristy Murray
Baylor College of Medicine, Houston, TX, United States

1:45 p.m.

603

THE LIVE ATTENUATED CHIMERIC VACCINE RWN/DEN4Δ30 IS WELL-TOLERATED AND IMMUNOGENIC IN HEALTHY FLAVIVIRUS-NAÏVE ADULT VOLUNTEERS 50-65 YEARS OF AGE.

Kristen K. Pierce¹, Anna P. Durbin², T. Grier², C. Tibery², A. Janiak², J. Lovchik², A. Jarvis¹, Marya Carmolli¹, Heather Kenney³, Alexander Pletnev³, Steve S. Whitehead³, Beth D. Kirkpatrick¹
¹*University of Vermont College of Medicine, Burlington, VT, United States*,
²*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*,
³*National Institutes of Health, Bethesda, MD, United States*

2 p.m.

604

ACUTE AND DELAYED MORTALITY FOLLOWING WEST NILE VIRUS INFECTION IN TEXAS

David Philpott¹, Melissa Garcia¹, Nicole Evert², Dawn Hesalroad², Bonny Mayes², Eric Fonken², **Kristy O. Murray**¹
¹*Baylor College of Medicine and Texas Children's Hospital, Houston, TX, United States*,
²*Texas Department of State Health Services, Austin, TX, United States*

2:15 p.m.

605

A SINGLE MUTATION IN THE ENVELOPE PROTEIN ALTERS FLAVIVIRUS ANTIGENICITY, STABILITY AND PATHOGENESIS

Leslie Goo¹, Laura A. VanBlargan², Kimberly A. Dowd¹, Michael S. Diamond², Ted C. Pierson¹
¹*National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States*,
²*Washington University, St. Louis, MO, United States*

2:30 p.m.

606

AN OPTIMIZED SYNTHETIC TLR-4 AGONIST ADJUVANT FORMULATION INDUCES DURABLE AND FUNCTIONAL IMMUNITY WHEN COMBINED WITH A CLINICAL-STAGE RECOMBINANT WEST NILE VIRUS VACCINE ANTIGEN

Neal Scott Van Hoesen¹, Brian J. Granger¹, Tajanna Stinn¹, Sharvari W. Joshi¹, Ghislain I. Nana¹, Christopher Fox¹, Angela Bosco-Lauth², Richard A. Bowen², David E. Clements³, Timothy Martyak³, D. Elliot Parks³, Scott Winram⁴, Susan L. Baldwin¹, Steven G. Reed¹, Rhea N. Coler¹
¹*Infectious Disease Research Institute, Seattle, WA, United States*,
²*Colorado State University Department of Biomedical Sciences, Ft. Collins, CO, United States*,
³*Hawaii Biotech Inc., Honolulu, HI, United States*,
⁴*Leidos Inc., Frederick, MD, United States*

2:45 p.m.

607

DIFFERENTIAL MECHANISMS OF WEST NILE VIRUS-INDUCED PATHOGENESIS IN BIRDS

Nisha Duggal¹, Angela Bosco-Lauth², Richard A. Bowen², Aaron C. Brault¹
¹*Centers for Disease Control and Prevention, Fort Collins, CO, United States*,
²*Colorado State University, Fort Collins, CO, United States*

3 p.m.

608

THE EFFECT OF CO-INFECTION WITH DENGUE, CHIKUNGUNYA AND ZIKA VIRUS ON VECTOR COMPETENCE OF *Aedes* MOSQUITOES

Claudia Rückert, James Weger-Lucarelli, Joseph R. Fauver, Selene M. Garcia-Luna, Gregory D. Ebel
Arthropod-borne and Infectious Diseases Laboratory, Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, CO, United States

3:15 p.m.

609

THE INFLUENCE OF GENETIC BOTTLENECKS, RNA INTERFERENCE-MEDIATED DIVERSIFICATION AND SELECTIVE CONSTRAINT ON THE EVOLUTION OF A TICK-BORNE VIRUS

Nathan Grubaugh¹, Claudia Ruckert¹, Philip Armstrong², Angela Bransfield², John Anderson², Gregory Ebel¹, **Doug E. Brackney**²
¹*Colorado State University, Fort Collins, CO, United States*,
²*The Connecticut Agricultural Experiment Station, New Haven, CT, United States*

Monday
November 14

Symposium 32

Seasonal Malaria Chemoprevention at Scale: Evidence from Eight Countries

Marriott - Marquis A

Monday, November 14, 1:45 p.m. - 3:30 p.m.

Despite the challenges of organizing the delivery of Seasonal Malaria Chemoprevention (SMC), which requires monthly contacts with health workers to receive antimalarial drugs to prevent malaria, National Malaria Control Programs have been quick to adopt this new strategy. SMC is designed specifically for the Sahel subregion. This includes areas with the highest incidence of malaria in the world despite high coverage of insecticide-treated bednets and good access to malaria treatment. About 25 million children live in areas where SMC could be used and about 20 million of these in areas of particularly high incidence. SMC offers a new tool that can be used to protect these children. In 2015 about 7.5 million children received SMC. At the time of writing there is committed funding for 70 million SMC treatments and manufacturing capacity to meet this demand. If these treatments can be delivered, most of the priority areas can receive SMC in 2016. It is important to assess the effectiveness of this rapid scale-up, to ensure that robust systems are in place to monitor the safety of the drugs used, and to assess the costs and potential sustainability of SMC programs. The session will present new findings from surveys in eight countries, comparing coverage achieved through different modes of delivery and in urban and rural areas following scale-up of SMC, and describing the impact this has had on the incidence of malaria in children. This will be followed by a presentation of new results from an in-depth evaluation of the effectiveness of SMC in Mali and its public health impact. Then the efforts that have been made to strengthen safety monitoring systems for SMC programs in the sub-region will be described, and details presented of the adverse event reports to date from implementing countries. Finally, the costs of SMC, from an assessment in 7 countries, will be described, with the key drivers of costs, and an assessment of the financing that will be required each year to sustain SMC at scale.

CHAIR

Paul J. Milligan

London School of Hygiene & Tropical Medicine, London, United Kingdom

Ebenezer Baba

Malaria Consortium, Kampala, Uganda

1:45 p.m.

DELIVERING SMC IN THE SAHEL: ANALYSIS OF COVERAGE SURVEYS AND ASSESSMENT OF IMPACT IN 7 COUNTRIES AFTER SCALING UP

Issaka Sagara

MRTC, Bamako, Mali

2 p.m.

MONITORING THE EFFECTIVENESS OF SMC IN MALI

Erin Eckert

United States Agency for International Development, Washington, DC, United States

2:15 p.m.

STRENGTHENING SYSTEMS FOR SAFETY MONITORING FOR SMC IN THE SAHEL

Jean Louis NDiaye

University Cheikh Anta Diop, Dakar, Senegal

2:30 p.m.

COSTS OF SMC AT SCALE: ASSESSMENT IN 7 COUNTRIES

Colin Gilmartin

Management Sciences for Health, Arlington, VA, United States

Symposium 33

Generating Evidence for Malaria Elimination in the Greater Mekong Sub-Region

Marriott - Marquis B

Monday, November 14, 1:45 p.m. - 3:30 p.m.

Countries in the Greater Mekong Sub-Region (GMS) have made the ambitious goal to eliminate malaria by 2030 and, considering the urgent action required against multidrug resistance in the GMS, to eliminate *Plasmodium falciparum* malaria by 2025. Achievement of elimination goals include universal parasitological confirmation of malaria through reinforcing quality microscopy and increasing access to quality assured Artemisinin based Combination Therapy (ACT), particularly in the private sector, as well as a focus on detecting, protecting and providing access to diagnosis and treatment. To help provide a picture of the current antimalarial landscape and the ACTwatch group will present novel data to showcase antimalarial markets in the region across five GMS countries, collected from over 30,000 screened public and private sector outlets. The performance and readiness of the markets will be presented, including the role of the private sector, the availability of trained and supervised providers and implications for elimination aims. In Vietnam, the National Institute of Malaria, Parasitology and Entomology (NIMPE) will present on the geographic distribution and current functioning of malaria diagnostic access points and discuss the operational relevance for targeting resources to cover diagnostic gaps. NIMPE conducted a survey throughout their national public health system that focused on assessing the availability, usage and quality of existing malaria diagnostic services in Vietnam. This information is then compared against the spatial distribution of malaria burden in order to guide the targeting of future malaria diagnosis interventions and distribution of services. Given alarming availability of oral artemisinin monotherapy in Myanmar's private sector in 2015, Population Services International (PSI)/ Myanmar will present insights on private sector providers who are still stocking oral artemisinin monotherapy. This will improve understanding on barriers towards appropriate case management in the context of strategies that are designed to address this issue and to completely phase out oral artemisinin monotherapy from the market. Finally, the PSI GMS Regional team will present an innovative and novel project implemented in 2016 to strengthen the private sector case management and surveillance as a means to accelerate malaria elimination efforts in Laos, Cambodia and Thailand. This goal of this project is to increase coverage of the private sector to actively test, treat and report on malaria cases. The PSI regional GMS project will describe

their work to address the implementation of this project, the experiences and challenges faced during the project set-up and how evidence can be used to inform the future deployment of interventions.

CHAIR

Ricki Orford

Population Services International, Washington, DC, United States

Thomas Kanyok

TPK Solutions, LLC (research conducted while with the Bill & Melinda Gates Foundation), Seattle, WA, United States

1:45 p.m.

UNDERSTANDING MALARIA MEDICINE AND DIAGNOSTIC MARKETS IN THE GREATER MEKONG SUB-REGION: FINDINGS FROM CAMBODIA, LAOS, MYANMAR, THAILAND AND VIETNAM

Megan Littrell

Population Services International, Washington, DC, United States

2:05 p.m.

MAPPING MALARIA DIAGNOSTIC ACCESS POINTS TO INFORM TARGETING OF INTERVENTIONS

Nguyen Quang Thieu

National Institute of Malaria, Parasitology and Entomology, Hanoi, Vietnam

2:25 p.m.

WHAT DETERMINES THE SALE OF ORAL ARTEMISININ MONOTHERAPY AMONG PRIVATE SECTOR PROVIDERS IN MYANMAR?

Si Thu Thein

Population Services International/Myanmar, Yangon, Myanmar

2:45 p.m.

STRENGTHENING PRIVATE SECTOR MALARIA CASE MANAGEMENT AND SURVEILLANCE TO ACCELERATE MALARIA ELIMINATION IN CAMBODIA, LAOS, MYANMAR AND VIETNAM

Henrietta Allen

Population Services International, Yangon, Myanmar

Scientific Session 34

Malaria: Vaccines - Diverse Approaches

Marriott - Marquis C

Monday, November 14, 1:45 p.m. - 3:30 p.m.

CHAIR

Urszula Krzych

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

Sophie Roetyncck

Medical Research Council Unit, Fajara, Gambia

1:45 p.m.

610

MOSQUITO MIDGUT FREP1 IS A POTENTIAL UNIVERSAL MALARIA TRANSMISSION-BLOCKING VACCINE

Caio Martinelle França¹, Guodong Niu¹, Genwei Zhang¹, Wanlapa Roobsoong², Nguitrageol Wang², Xioahong Wang¹, Jang Kim¹, Jetsumon Prachumsri², Noah Bulter³, Jun Li¹

¹University of Oklahoma, Norman, OK, United States, ²Mahidol University, Bangkok, Thailand, ³Oklahoma Health Sciences Center, Oklahoma City, OK, United States

(ACMCIP Abstract)

2 p.m.

611

SKIN SCARIFICATION WITH *PLASMODIUM FALCIPARUM* CS PEPTIDE VACCINES USING SYNTHETIC TLR AGONIST ADJUVANTS ELICITS CHEMOKINE/CYTOKINE PATTERNS THAT CORRELATE WITH INDUCTION OF SPOOROZOITE NEUTRALIZING ANTIBODIES

Robert Mitchell, Roshawn Johnson, Rita Altszuler, Ute Frevert, Elizabeth Nardin
New York University School of Medicine, New York, NY, United States

2:15 p.m.

612

HUMORAL IMMUNE RESPONSES TO AN ADJUVANTED SELF-ASSEMBLING PROTEIN NANOPARTICLE (SAPN) MALARIA VACCINE DISPLAYING THE NANP REPEAT AND TSR REGIONS OF THE *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN

Stephen A. Kaba¹, Labdhi Seth¹, Karen Bingham¹, Casey Storme¹, Amanda Wessal¹, Yuwei Zhu¹, Andrew K. Collin¹, Zoltan Beck¹, Gary R. Matyas¹, Carl R. Alving¹, Peter Burkhard², David E. Lanar¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Alpha-O Peptides AG, Riehen, Switzerland

2:30 p.m.

613

IMMUNOMECHANISM OF PROTECTION FOR E140, A PRE-ERYTHROCYTIC VACCINE CANDIDATE

Emily Smith¹, Keith Limbach¹, Nonenipha Rangel², Arnel Belmonte¹, Kyosuke Oda³, Andrea Renner², Sharvari Sonawane¹, Kalpana Gowda³, Jessica Bolton¹, Rebecca Danner¹, Martha Sedegah³, Noelle Patterson¹, Eileen Villasanté³, Joao Aguiar²

¹Henry M. Jackson Foundation, Rockville, MD, United States, ²Camris International, Bethesda, MD, United States, ³Naval Medical Research Center, Silver Spring, MD, United States

2:45 p.m.

614

DEVELOPMENT OF A SEMI-SYNTHETIC WHOLE PARASITE VACCINE

Michael F. Good¹, Ashwin Kumar Giddam², Jennifer M. Reiman¹, Mehruz Zaman¹, Mariusz Skwarczynski², Istvan Toth²

¹Institute for Glycomics, Gold Coast, Australia, ²School of Chemistry and Molecular Biosciences, Brisbane, Australia

3 p.m.

615

CORD BLOOD ANTI-PFSEA-1 AND PROTECTION FROM SEVERE MALARIA IN INFANTS

Jennifer F. Friedman¹, Ian Michelow¹, Sangshin Park¹, Dipak K. Raj¹, Christina E. Nixon¹, Emily A. McDonald¹, Christian P. Nixon¹, Sunthorn Pond-Tor¹, Ambris Jha¹, Edward Kabyemela², Michal Fried³, Patrick E. Duffy³, Jonathan D. Kurtis¹
¹CIHR, Brown University, Providence, RI, United States, ²Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, ³National Institutes of Health, Bethesda, MD, United States

3:15 p.m.

616

IMMUNOGENICITY OF CHAD63/MVA ME-TRAP MALARIA VECTORED VACCINE IS NOT AFFECTED BY CO-ADMINISTRATION WITH ROUTINE EPI VACCINES IN A RANDOMIZED CONTROLLED TRIAL IN GAMBIAN INFANTS AND NEONATES

Sophie Roetyncck¹, Victorine Mensah², Ebrima Kanteh¹, Georgina Bowyer³, Amy Ndaw², Francis Oko¹, Carly Bliss³, Riccardo Cortese⁴, Alfredo Nicosia⁴, Rachel Roberts³, Flavia D'Alessio⁵, Odile Leroy⁵, Babacar Faye², Beate Kampmann¹, Badara Cisse², Kalifa Bojang⁶, Stephen Gerry⁷, Nicola Viebig⁵, Alison Lawrie³, Ed Clarke¹, Egeruan Imoukhuede³, Katie Ewer³, Adrian Hill³, Muhammed Afolabi¹

¹Medical Research Council Unit, Fajara, Gambia, ²Universite Cheikh Anta Diop,

Dakar, Senegal, ³The Jenner Institute, University of Oxford, Oxford, United Kingdom, ⁴Reithera, Rome, Italy, ⁵European Vaccine Initiative, Heidelberg, Germany, ⁶Medical Research Council Unit, F, Gambia, ⁷Centre for Statistics, University of Oxford, Oxford, United Kingdom

Symposium 35

Malaria Metabolomics, Data Integration Challenges and Progress

Marriott - Marquis D

Monday, November 14, 1:45 p.m. - 3:30 p.m.

Metabolomics, the high-throughput profiling of small molecules, has emerged in recent years as a powerful tool for identifying biochemical signatures that are associated with specific diseases and physiologic states. Metabolomics is already being used to address critical questions in malaria. Areas under investigation include understanding the dramatic metabolic changes that occur during *Plasmodium* parasite development at various stages of the life cycle, the effect of antimalarial drugs on parasite metabolism, and within-host metabolic dynamics. With recent advances in analytical technology and informatics, hundreds of metabolites involved in the host-parasite interaction can be profiled in a range of sample types (e.g. parasites, culture media, host RBC, host plasma, urine, etc.) which can be correlated with other parameters during infection such as cellular, genetic, proteomic and immunologic changes. Such data can provide rich information on the complex interplay between host and parasite, and can lead to an understanding of critical areas for intervention. This symposium will begin with an overview of the state of the field of malaria metabolism and metabolic changes associated with the host-parasite interaction during the malaria infection. It will then feature research highlights from *in vitro* studies, *in vivo* experimental model infections, and human cohort studies. The featured talks will address how metabolomics and proteomics can be combined to understand the mechanisms of anti-malarial drug action and resistance. The session will also feature results from plasma metabolome profiling of humans infected with malaria, as well as the dynamic of plasma metabolites across longitudinal infections of non-human primates. Finally, the symposium will feature the results of multi-omic data analyses from longitudinal malaria infection studies, and a discussion of how data integration can be used to gain a clearer understanding of the host-parasite system.

CHAIR

Dean P. Jones

Emory University, Atlanta, GA, United States

Manuel Llinas

Pennsylvania State University, University Park, PA, United States

1:45 p.m.

RECENT ADVANCES TOWARD CHARACTERIZING THE *PLASMODIUM* METABOLOME

Manuel Llinas

Pennsylvania State University, University Park, PA, United States

2:05 p.m.

COMBINING METABOLOMICS WITH PROTEOMICS TO INVESTIGATE MECHANISMS OF ANTI-MALARIAL DRUG ACTION AND RESISTANCE

Darren Creek

Monash University, Parkville, Australia

2:25 p.m.

METABOLIC PROFILES OF HUMANS AND NON-HUMAN PRIMATES DURING INFECTION WITH *PLASMODIUM* SPECIES

Regina Joice

Emory Vaccine Center, Emory University, Atlanta, GA, United States

2:45 p.m.

METABOLOMICS AND MULTI-OMIC DATA INTEGRATION IN LONGITUDINAL STUDIES OF MALARIA

Shuzhao Li

Emory University, Atlanta, GA, United States

Symposium 36

Emerging Infectious Diseases and Social Media

Marriott - Room M103/M104/M105

Monday, November 14, 1:45 p.m. - 3:30 p.m.

Social media is increasingly popular globally. During recent epidemics of Ebola, MERS, and Zika viruses, media attention and public awareness drove social media traffic about these emerging infectious diseases. This symposium will share insights acquired from social media analysis and explore future research directions. Drawing upon a systematic review of literature pertinent to Ebola and social media, the session will provide an overview on how computational analysis and manual coding of social media data may assist public health communication surveillance and inform health communication strategies. This presentation will highlight the uneven landscape of social media research on Ebola and propose new research directions that address current gaps of understandings. The next presenter will address research on the Twitter activity of health authorities during the West African Ebola outbreak, with particular emphasis on the Twitter use by WHO and CDC. Discussion will focus on the overall level of engagement with the general Twitter public that these organizations achieved during the outbreak, as well as the geography of public interest in them, and organizations' responsiveness to their public. The presentation will conclude with insights that health organizations can obtain in real-time from tweets through big data analytics to inform their communication strategies during public health emergencies. While social media is popular globally, public health social media research is primarily conducted with English language data. The next presenter will describe a study that compares the responses to the South Korean MERS outbreak, 2015, by Twitter users who wrote in English, Indonesian, Japanese, Korean and Thai. While Twitter is a global platform, its users write in different languages and share information from different sources. For example, Korean pop music (K-pop) fans are important in raising awareness of the MERS outbreak among Thai Twitter users. The study will highlight the need to understand social media health communication in languages beyond English. The final speaker will present recent findings pertinent to Zika-related Twitter contents. In 2015, Zika-

related tweets were predominantly in Spanish and Portuguese. Beginning in 2016, English Zika-related tweets increased substantially. Zika-related Twitter incidence peaked after WHO announced the Zika epidemic a Public Health Emergency of International Concern. Content analysis revealed Twitter users' concerns on the outbreak's societal impact, responses of various sectors to the outbreak, the outbreak's global pandemic potential, the Zika-associated risk of microcephaly, Zika transmission routes and case reports.

CHAIR

Isaac Chun-Hai Fung
Georgia Southern University, Statesboro, GA, United States

1:45 p.m.

EBOLA AND SOCIAL MEDIA: A SYSTEMATIC REVIEW

Zion Tsz Ho Tse
The University of Georgia, Athens, GA, United States

2:05 p.m.

EBOLA AND TWITTER: PUBLIC HEALTH ORGANIZATIONS' SOCIAL MEDIA ENGAGEMENT

Tatiana Vorovchenko
The University of Oxford, Oxford, United Kingdom

2:25 p.m.

MERS AND TWITTER: SOUTH KOREA, 2015

Isaac Chun-Hai Fung
Georgia Southern University, Statesboro, GA, United States

2:45 p.m.

ZIKA AND TWITTER: THE INITIAL REACTIONS TO THE OUTBREAK

King-Wa Fu
The University of Hong Kong, Journalism and Media Studies Centre, Hong Kong, Hong Kong

Symposium 37

A Decade of U.S. Government Commitment to Combatting Malaria and Saving Lives: The President's Malaria Initiative, 2006-2015

Marriott - Atrium A

Monday, November 14, 1:45 p.m. - 3:30 p.m.

Global malaria mortality rates declined 60% since 2000. Strong political commitment and increased resources from donors and affected countries have allowed malaria endemic countries to scale-up long-lasting insecticidal nets (LLINs), indoor residual spraying (IRS), intermittent preventive treatment during pregnancy and malaria case management. WHO's Global Technical Strategy aims to reduce malaria incidence and mortality by 90% by 2030, and successes of the last decade demonstrate these goals are achievable. The U.S. President's Malaria Initiative (PMI) began in 2006 as a \$1.5 billion initiative and expanded under the Lantos-Hyde Act of 2008. PMI is led by the U.S. Agency for International Development and co-implemented with the Centers for Disease Control and Prevention. Over the past decade, PMI expanded from three to 19 countries in Africa and to three countries in Greater Mekong. PMI is uniquely positioned to provide financial and technical support to National Malaria Control Programs (NMCPs) to further accelerate declines in malaria

morbidity and mortality. Moving forward, it is important to identify what has worked and what obstacles persist. This symposium will include an overview of the political genesis of PMI, strategic vision and implementation approach, and how PMI was sustained and expanded into a second Administration through partnerships with NMCPs, RBM, Global Fund and WHO. Two country examples will then describe PMI partnerships with NMCPs: 1) Tanzania's efforts to attain high LLIN ownership and use, expand and document impact of IRS, and implement of a Test, Treat and Track strategy using RDTs, ACTs and data capture via health management information system; and 2) Senegal's efforts to scale up quality assured malaria diagnostics and ACTs, expand integrated community case management and pilot seasonal malaria chemoprevention. Finally, PMI operational research efforts to obtain the evidence base for optimizing existing interventions will be described, along with PMI's commitment to health systems strengthening. The four presentations will be followed by insights from the U.S. Global Malaria Coordinator regarding leadership and challenges as PMI potentially expands in 2017.

CHAIR

Peter D. McElroy
U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

Julie Wallace
Bureau for Global Health/U.S. President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States

1:45 p.m.

EVOLUTION AND IMPACT OF PMI SINCE INCEPTION

Bernard Nahlen
U.S. President's Malaria Initiative, Washington, DC, United States

2 p.m.

PMI'S SUCCESSFUL PARTNERSHIPS IN MALARIA CONTROL: TANZANIA

Renata Mandike
National Malaria Control Program, Dar es Salaam, United Republic of Tanzania

2:15 p.m.

PMI'S SUCCESSFUL PARTNERSHIPS IN MALARIA CONTROL: SENEGAL

Moustapha Cisse
National Malaria Control Program, Dakar, Senegal

2:30 p.m.

INNOVATIONS TO ENHANCE MALARIA CONTROL PROGRAM IMPLEMENTATION AND HEALTH SYSTEMS STRENGTHENING

Peter McElroy
U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Atlanta, GA, United States

2:45 p.m.

REFLECTIONS ON A DECADE OF PMI LEADERSHIP AND IMPLEMENTATION

Timothy Ziemer
U.S. Global Malaria Coordinator, Washington, DC, United States

Symposium 38

Ebola: Drivers of Transmission, Vaccines, Clinical Sequelae and Asymptomatic Infection

Marriott - Atrium B

Monday, November 14, 1:45 p.m. - 3:30 p.m.

Despite over 28,000 reported cases of Ebola virus disease (EVD) in the 2013-16 pandemic as of March 27, 2016, we are only beginning to trace the complex biosocial processes that have promoted spread of the virus. Important questions remain, including what are the drivers of Ebola virus transmission, how do we use tools such as new vaccines to contain future outbreaks, how do we identify and manage clinical sequelae of EVD, and what are the incidence and transmission dynamics of asymptomatic Ebola virus infection. This symposium will present the latest research on these important questions.

CHAIR

Paul E. Farmer

Harvard Medical School, Boston, United States

Eugene T. Richardson

Brigham and Women's Hospital, Boston, MA, United States

1:45 p.m.

EBOLA: DRIVERS OF TRANSMISSION

Mohamed B. Barrie

Partners In Health, Freetown, Sierra Leone

2:05 p.m.

EBOLA VACCINES

Mohamed Samai

College of Medicine and Allied Health Sciences (COMAHS), Freetown, Sierra Leone

2:25 p.m.

CLINICAL SEQUELAE IN EBOLA SURVIVORS

Mosoka P. Fallah

Partnership for Research on Ebola Virus in Liberia (PREVAIL-3), Monrovia, Liberia

2:45 p.m.

ASYMPTOMATIC EBOLA INFECTION

John D. Kelly

University of California San Francisco School of Medicine, San Francisco, United States

Scientific Session 39

Schistosomiasis: Epidemiology and Control

Marriott - Room A703/A704

Monday, November 14, 1:45 p.m. - 3:30 p.m.

CHAIR

Pedro Gazzinelli

National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

Pauline N. Mwinzi

Kenya Medical Research Institute, Kisumu, Kenya

1:45 p.m.

617

FIVE-YEAR OUTCOMES OF A RANDOMIZED TRIAL OF SCHOOL- VS COMMUNITY-BASED MASS DRUG ADMINISTRATION FOR *S. MANSONI* CONTROL IN WESTERN KENYA

Pauline N. Mwinzi¹, Susan P. Montgomery², Ryan E. Wiegand², Kennedy Andiego¹, Martin Ormedo¹, Geoffrey Muchiri¹, Michael O. Ogutu¹, Fredrick Rawago¹, Maurice R. Odiere¹, Diana M. Karanja¹, W. Evan Secor²

¹Kenya Medical Research Institute, Kisumu, Kenya, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

2 p.m.

618

FEMALE GENITAL SCHISTOSOMIASIS (FGS) IN ABEOKUTA, NIGERIA

Uwemedimo F. Ekpo¹, Oluwatosin M. Opeyemi¹, Sammy O. Sam-Wobo¹, Hamed Mogaji¹, Hameedat O. Abdussalam², Akinola S. Oluwole¹

¹Federal University of Agriculture Abeokuta, Abeokuta, Nigeria, ²Federal Medical Centre Abeokuta, Abeokuta, Nigeria

2:15 p.m.

619

PROGRESS TOWARDS SCHISTOSOMIASIS CONTROL AND ELIMINATION FROM 2004 TO 2015 IN 28 HEALTH DISTRICTS IN MALI

Mahamadou Traoré¹, Benoit Dembele², Aly Landouré³, Boubacar Guindo², Seydou Goita², Modibo Keita², Moussa Sacko³, Zana Berthé², Abdoul Karim Sidibé¹, Steven Reid⁴, Marily Knieriemen², Yaobi Zhang⁵

¹Direction Nationale de la Santé, Ministère de la Santé et de l'Hygiène Publique, Bamako, Mali, ²Helen Keller International, Bamako, Mali, ³Institut National de la Recherche en Santé Publique au Mali (INRSP), Bamako, Mali, ⁴Helen Keller International, New York, NY, United States, ⁵Helen Keller International, Regional Office for Africa, Dakar, Senegal

2:30 p.m.

620

COMMUNITY DIALOGUES FOR PREVENTION AND CONTROL OF SCHISTOSOMIASIS IN MOZAMBIQUE

Christian Rassi¹, Sandrine Martin², Kirstie Graham¹, Ana Cristina Castel-Branco², Ercilio Jive³

¹Malaria Consortium, London, United Kingdom, ²Malaria Consortium, Maputo, Mozambique, ³Direcção Provincial de Saúde, Nampula, Mozambique

2:45 p.m.

621

EXPERIENCES WITH A URINE-BASED RAPID DIAGNOSTIC TEST FOR *SCHISTOSOMA MANSONI* INFECTION IN MIGRANTS

Sören L. Becker¹, Mathias Herrmann¹, Jürg Utzinger²

¹Institute of Medical Microbiology and Hygiene, Saarland University, Homburg, Germany, ²Swiss Tropical and Public Health Institute, Basel, Switzerland

3 p.m.

622

ASSOCIATION OF SCHISTOSOMIASIS WITH IMPAIRED FERTILITY IN EAST AFRICA

Patricia A. Woodall

Emory University, Atlanta, GA, United States

3:15 p.m.

623

REDUCED EFFICACY OF PRAZIQUANTEL AGAINST SCHISTOSOMA MANSONI IS ASSOCIATED WITH MULTIPLE-ROUNDS OF MASS DRUG ADMINISTRATION: EPIDEMIOLOGICAL AND GENOMIC DATA FROM UGANDA

Thomas Crelen¹, Martin Walker¹, Poppy H. Lamberton¹, Narcis Kabatereine², Edridah Muheki³, James A. Cotton⁴, Joanne P. Webster⁵

¹Imperial College London, London, United Kingdom, ²Schistosomiasis Control Initiative, London, United Kingdom, ³Vector Control Division, Ministry of Health, Kampala, Uganda, ⁴Wellcome Trust Sanger Institute, Cambridge, United Kingdom, ⁵Royal Veterinary College, London, United Kingdom

(ACMCIP Abstract)

Scientific Session 40

Mosquitoes: Vector Biology - Epidemiology I

Marriott - Room A706/A707

Monday, November 14, 1:45 p.m. - 3:30 p.m.

CHAIR

Lauren B. Carrington

Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam

Ailie Robinson

London School of Hygiene & Tropical Medicine, London, United Kingdom

1:45 p.m.

624

THE PREMONITION TRAP: LABORATORY TRIALS OF A ROBOTIC SMART TRAP FOR MOSQUITOES WITH SPECIES AND SEX RECOGNITION

Douglas E. Norris¹, Anandasankar Ray², Tom Guda², Eamonn Keogh³, Shailendra Singh³, Yan Zhu³, Alex Ching⁴, Patrick Therien⁴, Ethan K. Jackson⁴

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Department of Entomology, University of California Riverside, Riverside, CA, United States, ³Department of Computer Science, University of California Riverside, Riverside, CA, United States, ⁴Microsoft Research, Redmond, WA, United States

2 p.m.

625

REFINING ESTIMATES OF DENGUE VIRUS TRANSMISSION POTENTIAL IN WILD TYPE AND WMEL-INFECTED Aedes Aegypti: Field Rearing Conditions Alter Virus Susceptibility

Lauren B. Carrington¹, Tim P. Hurst², Long T. Vo¹, Dui T. Le¹, Kien T. Duong¹, Long T. Pham³, Hung Q. Luu³, Le H. Nguyen², Bridget Wills¹, Scott L. O'Neill², Cameron P. Simmons⁴

¹Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, ²Monash University, Melbourne, Australia, ³Eliminate Dengue, Nha Trang, Vietnam, ⁴University of Melbourne, Melbourne, Australia

2:15 p.m.

626

ESTIMATING HUMAN/MOSQUITO CONTACT AND RISK OF EXOTIC ARBOVIRUS TRANSMISSION FROM EGGS COUNTS IN OVITRAP: A CASE STUDY FOR Aedes albopictus IN ROME (ITALY)

Mattia Manica¹, Roberto Rosa², **Alessandra della Torre¹**, Beniamino Caputo¹

¹University of Rome SAPIENZA, Rome, Italy, ²Fondazione Edmund Mach, San Michele all'Adige, Italy

2:30 p.m.

627

IMPACT OF SEASONAL PATTERNS AND PARASITE ASEXUAL STAGE ON Anopheles gambiae Susceptibility to Plasmodium falciparum Infection in Burkina Faso

Awa Gnome¹, Gustave B. Kabre¹, Wamdaogo M. Guelbeogo², Michelle M. Riehle³, N'Falé Sagnon², Kenneth D. Vernick⁴

¹Université Ouaga I Pr Joseph KI-ZERBO, Ouagadougou, Burkina Faso, ²Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, ³Department of Microbiology, University of Minnesota, Minnesota, MN, United States, ⁴Unit of Insect Vector Genetics and Genomics, Department of Parasites and Insect Vectors, Institut Pasteur; CNRS Unit of Hosts, Vectors and Pathogens (URA3012), Paris, France

2:45 p.m.

628

INVESTIGATING THE INFLUENCE OF Plasmodium Infection on the Human Volatile Odour Profile in an Endemic Setting

Ailie Robinson¹, Jetske de Boer², Annette O. Busula³, Stephen Powers⁴, John Caulfield⁴, Mike Birkett⁴, John A. Pickett⁴, Willem Takken², James Logan¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Wageningen University, Wageningen, Netherlands, ³International Centre of Insect Physiology and Ecology, Nairobi, Kenya, ⁴Rothamsted Research, Harpenden, United Kingdom

3 p.m.

629

CHANGE IN MOSQUITO BEHAVIOR AFTER DISTRIBUTION OF BEDNETS RESULTS IN DECREASED PERSONAL PROTECTION FROM INFECTIVE BITES

Edward Thomsen¹, Gussy Koimbu², John Keven³, Manuel Hetzel⁴, **Lisa Reimer¹**

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ³Michigan State University, East Lansing, MI, United States, ⁴Swiss Tropical Public Health Institute, Basel, Switzerland

3:15 p.m.

630

ACCELERATED ARBOVIRAL TRANSMISSION AND MORE EXPLOSIVE OUTBREAKS IN A WARMER WORLD

Amir S. Siraj¹, Rachel J. Oidtman¹, John Huber¹, Moritz U. Kraemer², Oliver J. Brady², Michael Johansson³, Alex T. Perkins¹

¹University of Notre Dame, Notre Dame, IN, United States, ²University of Oxford, Oxford, United Kingdom, ³Center for Disease Control and Prevention, San Juan, PR, United States

Exhibit Hall Open

Marriott - International Hall

Monday, November 14, 3:15 p.m. - 4:15 p.m.

Coffee Break

Marriott - International Hall

Monday, November 14, 3:30 p.m. - 4 p.m.

Sponsored by Takeda Pharmaceuticals International AG

PREMIER

Monday
November 14

Symposium 41

Terrorism, Conflict, Epidemics and Acts of God: The Impact of the Unpredictable on NTD Programs

Marriott - Imperial A

Monday, November 14, 4 p.m. - 5:45 p.m.

Preventive chemotherapy (PC) for neglected tropical diseases (NTD) targets millions of people through mass drug administration (MDA) campaigns in endemic countries every year. As a means of establishing baselines and evaluating progress, NTD mapping and impact assessments are also conducted, either country-wide or in regions or districts where the PC-NTD are prevalent. However, in the past three years alone, several countries have found the implementation of NTD field activities such as these challenged by unexpected large scale events including political and civil unrest, security and safety threats, terrorism and epidemics. In many settings, this instability was not suitable for the gathering of a large number of people for health interventions; thus the situation posed a threat to the successful implementation of NTD activities. Civil unrest and insecurity in a growing number of countries (Burundi, Democratic Republic of Congo, South Sudan, Nigeria and Mali) have a long and devastating effect on NTD efforts. Areas controlled by Boko Haram insurgents in the North of Cameroon and the North East of Nigeria are unfit for routine mass drug campaigns; likewise, the implementation of MDA is stalling in the Northern regions of Mali due to armed conflicts and terrorism. Addressing the displaced populations that are the result of events such as these is also a significant challenge: massive refugee camps along the Ethiopian/South Sudan border represent an unknown prevalence for NTDs and a poorly understood transmission dynamic between host and origin communities. The emergence of epidemics like the Ebola virus in West Africa (Guinea, Liberia and Sierra Leone) and the recent Zika virus epidemic in South America (Brazil, Haiti) have negative impacts on the affected countries programs. For example, in Sierra Leone, one of the countries most affected by the Ebola virus, the MDA campaigns were halted and other field interventions stopped for more than a year. These events are threatening to suppress the NTD programs gains. Instability undermines the hard and costly efforts of countries and their partners. Not only do these situations slow down or stop NTD programming but they could potentially roll back the entire human and financial investment made towards the control and elimination of these diseases. The panelists will present and discuss initiatives undertaken to reach the targeted populations in various challenging contexts.

CHAIR

Achille Kabore

RTI International, Washington, DC, United States

Penelope Smith

U.S. Agency for International Development, Washington, DC, United States

4 p.m.

THE USE OF THE "HIT AND RUN" STRATEGY FOR MDAS IN INSECURE AREAS IMPACTED BY BOKO HARAM: EXPERIENCE FROM NORTHERN CAMEROON

Rebecca Djao

Regional Delegation of Public Health of Far-North, Ministry of Health Cameroon, Maroua, Cameroon

4:20 p.m.

CHALLENGES ACHIEVING MASS DRUG ADMINISTRATION COVERAGE IN THE CONTEXT OF EPIDEMICS: A CASE STUDY OF EBOLA IN SIERRA LEONE

Yakuba Madinah Bah

Ministry of Health and Sanitation, Sierra Leone, Freetown, Sierra Leone

4:40 p.m.

IMPACT OF ARMED CONFLICTS AND TERRORISM ON NTDS IN THE NORTHERN REGIONS OF MALI

Massitan Dembele

Ministry of Health - Mali, Bamako, Mali

5 p.m.

NOVEL APPROACH FOR MAPPING NTDS IN REFUGEE CAMPS IN GAMBELLA AND BENESHANGUL-GUMUZ (ETHIOPIA): HOST VERSUS ORIGIN COMMUNITIES AS A SOURCE OF NTD INFECTION

Scott McPherson

RTI International, Addis Ababa, Ethiopia

Scientific Session 42

Chikungunya and Other Alphaviruses

Marriott - Imperial B

Monday, November 14, 4 p.m. - 5:45 p.m.

CHAIR

Alan M. Watson

University of Pittsburgh, Pittsburgh, PA, United States

Eva Harris

University of California Berkeley, Berkeley, CA, United States

4 p.m.

631

EXPOSURE OF EPITOPE RESIDUES ON THE OUTER FACE OF THE CHIKUNGUNYA VIRUS ENVELOPE TRIMER DETERMINES ANTIBODY NEUTRALIZING EFFICACY

Rachel H. Fong¹, Soma S. Banik¹, Jin Jing², Graham Simmons², Benjamin J. Doranz¹

¹Integral Molecular, Inc., Philadelphia, PA, United States, ²Blood Systems Research Institute, San Francisco, CA, United States

4:15 p.m.

632

BRIDGING THE GAP BETWEEN IMMUNOGENICITY AND SAFETY: AN INSECT-ONLY VIRUS AS A VACCINE PLATFORM

Jesse H. Erasmus¹, Albert J. Auguste¹, Jason Kaelber², Shannan L. Rossi¹, Grace Leal¹, Wah Chiu², Dal Y. Kim³, Ilya Frolov³, Huanle Luo¹, Tian Wang¹, Farooq Nasar⁴, Scott C. Weaver¹

¹University of Texas Medical Branch, Galveston, TX, United States, ²Baylor College of Medicine, Houston, TX, United States, ³University of Alabama Birmingham, Birmingham, AL, United States, ⁴U.S. Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States

4:30 p.m.

633

PROTECTION AGAINST TWO LETHAL HETEROLOGOUS VIRUSES AFTER SIMULTANEOUS DUAL-AEROSOL CHALLENGE USING A NOVEL IMMUNOTHERAPEUTIC

Thomas C. Luke¹, Eddie Sullivan², Hua Wu², Jin-an Jiao², Christina L. Gardner³, William Klimstra³, Kanakatte Raviprakash⁴

¹Naval Medical Research Center, The Henry Jackson Foundation, Silver Spring, MD, United States, ²SAB Biotherapeutics, Inc., Sioux Falls, SD, United States, ³University of Pittsburgh, Center for Vaccine Research, Pittsburgh, PA, United States, ⁴Naval Medical Research Center, Silver Spring, MD, United States

4:45 p.m.

634

A VIRUS-LIKE PARTICLE VACCINE ELICITS BROAD NEUTRALIZING ANTIBODY RESPONSES IN HUMANS AGAINST DISTINCT CHIKUNGUNYA VIRUS GENOTYPES

Leslie Goo, Kimberly A. Dowd, Tsai-Yu Lin, Barney S. Graham, Julie E. Ledgerwood, **Ted C. Pierson**
National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

5 p.m.

635

HIGH-RESOLUTION IMAGING OF CENTRAL NERVOUS SYSTEM INVASION BY ALPHAVIRUSES DELIVERED BY SUBCUTANEOUS OR AEROSOL ROUTES OF EXPOSURE

Alan M. Watson, Christina L. Gardner, Chengqun Sun, Doug S. Reed, Simon C. Watkins, Amy L. Hartman, William B. Klimstra
University of Pittsburgh, Pittsburgh, PA, United States

5:15 p.m.

636

ATTACK RATE OF CHIKUNGUNYA IN NICARAGUAN CHILDREN DURING THE FIRST TWO WAVES OF THE EPIDEMIC, 2014-2016

Aubree Gordon¹, Guillermina Kuan², Lionel Gresh³, Nery Sanchez³, Sergio Ojeda³, Saira Saborio⁴, Yolanda Tellez⁴, Marlon Melendez³, Angel Balmaseda⁴, **Eva Harris⁵**

¹Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ²Health Center Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua, ³Sustainable Sciences Institute, Managua, Nicaragua, ⁴Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, ⁵Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States

5:30 p.m.

637

12-MONTH ASSESSMENT OF PERSISTENT ARTHRALGIA ASSOCIATED WITH THE 2014-2015 CHIKUNGUNYA VIRUS OUTBREAK IN THE U.S. VIRGIN ISLANDS

Leora R. Feldstein¹, Ali Rowhani-Rahbar¹, Marcia R. Weaver², M. Elizabeth Halloran³, Esther M. Ellis⁴

¹Department of Epidemiology, School of Public Health, University of Washington, Seattle, WA, United States, ²Institute for Health Metrics and Evaluation, Seattle, WA, United States, ³Center for Inference and Dynamics of Infectious Diseases, Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ⁴U.S. Virgin Islands Department of Health, Christiansted, Virgin Islands, U.S.

Scientific Session 43

One Health: Interface of Human Health/Animal Diseases

Marriott - Marquis A

Monday, November 14, 4 p.m. - 5:45 p.m.

CHAIR

Megan E. Reller
Duke University, Durham, NC, United States

Chris Woods
Durham Veterans Administration Medical Center, Durham, NC, United States

4 p.m.

638

HIGH SEROPREVALENCE OF MIDDLE EAST RESPIRATORY SYNDROME CORONAVIRUS (MERS-COV) IN CAMELS IS NOT ASSOCIATED WITH MERS-COV SERO-POSITIVITY AMONG CAMEL PASTORALISTS IN KENYA

Peninah M. Munyua¹, Victor Corman², Austine Bitek³, Eric Osoro⁴, SM Thumbi⁵, Rees Murithi⁶, Marc-Alain Widdowson¹, Kariuki Njenga⁵

¹Centers for Disease Control and Prevention-Kenya, Nairobi, Kenya, ²Institute of Virology in Bonn, Bonn, Germany, ³Zoonotic Disease Unit, Ministry of Agriculture Livestock and Fisheries, Nairobi, Kenya, ⁴Zoonotic Disease Unit, Ministry of Health, Nairobi, Kenya, ⁵Washington State University, Pullman, WA, United States, ⁶Ministry of Agriculture Livestock and Fisheries, Nairobi, Kenya

4:15 p.m.

639

REDRAWING THE BOUNDARIES OF KYASANUR FOREST DISEASE (KFD) IN INDIA- EARLY RESULTS OF GHSA-SUPPORTED ACUTE FEBRILE ILLNESS SURVEILLANCE

Govindakarnavar Arunkumar¹, Shaikh Shah Hossain², Devadiga Santhosh¹, Sushama Aswathraj¹, Nittur Sudheesh¹, Abdulmajeed Jazeel¹, Jayaram Anup¹, Prabhu G. Suresha¹, Chameettachal Akhil¹, Maity Hindol¹, D'Souza Raiza Giselle¹, Sasidharan Pillai Sabeena¹, Jagadesh Anitha¹, Aithal Anjali¹, Bhasker Revti¹, Kayla F. Laserson²

¹Manipal University, UDUPI, Karnataka, India, ²Centers for Disease Control and Prevention, New Delhi, India

4:30 p.m.

640

RISK FACTORS FOR ACUTE LEPTOSPIROSIS IN NORTHERN TANZANIA

Michael J. Maze¹, Shama Cash-Goldwasser², Holly M. Biggs³, Matthew P. Rubach³, Renee L. Galloway⁴, Katrina J. Sharples⁵, Kathryn J. Allan⁶, Jo E. Halliday⁶, Sarah Cleaveland⁶, Michael C. Shand⁶, Charles Muiririri², Rudovick R. Kazwala⁷, Wilbrod Saganda⁸, Bingileki F. Lwezaula⁸, Blandina T. Mmbaga⁹, Venance P. Maro⁹, John A. Crump¹

¹Centre for International Health, University of Otago, Dunedin, New Zealand, ²Duke Global Health Institute, Durham, NC, United States, ³Division of Infectious Diseases, Duke University Medical Center, Durham, NC, United States, ⁴Centers for Disease Control and Prevention, Bacterial Special Pathogens Branch, Atlanta, GA, United States, ⁵Department of Mathematics and Statistics, University of Otago, Dunedin, New Zealand, ⁶Boyd Orr Centre for Population and Ecosystem Health, Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, Glasgow, United Kingdom, ⁷Department of Veterinary Medicine and Public Health, Sokoine University of Agriculture, Morogoro, United Republic of Tanzania, ⁸Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, ⁹Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania

4:45 p.m.

641

PRODUCTION FARMS, CLASS-1 INTEGRONS, AND ANTIBIOTIC RESISTANCE IN E. COLI ISOLATES FROM RURAL ECUADOREAN CHICKENS AND HUMANS

Kara A. Moser¹, Lixin Zhang², Ian Spicknall¹, Jason Goldstick¹, Nikolay P. Braykov³, Karen Levy³, Carl F. Marrs¹, Betsy Foxman¹, Gabriel Trueba⁴, William Cevallos⁵, James Trostle⁶, Joseph N. Eisenberg¹

¹University of Michigan School of Public Health, Ann Arbor, MI, United States, ²Michigan State University, East Lansing, MI, United States, ³Rollins School of Public Health, Emory University, Atlanta, GA, United States, ⁴Universidad San Francisco de Quito, Quito, Ecuador, ⁵Universidad Central del Ecuador, Quito, Ecuador, ⁶Trinity College, Hartford, CT, United States

5 p.m.

642

IDENTIFYING CHALLENGES AND OPPORTUNITIES FOR ONE HEALTH SYSTEMS STRENGTHENING IN GUINEA

Claire J. Standley¹, Ellen Carlin², Erin M. Sorrell¹, Alpha M. Barry¹, Aboubacar S. Diakite³, Lamine Koivogui⁴, Mamady S. Keita⁵, Seny Mane⁶, Lise Martel⁷, Rebecca L. Katz¹

¹George Washington University, Washington, DC, United States, ²Carlin Communications, New York, NY, United States, ³Ministry of Health, Conakry, Guinea, ⁴Institut National de Santé Publique, Conakry, Guinea, ⁵Ministry of Environment, Conakry, Guinea, ⁶Ministry of Livestock, Conakry, Guinea, ⁷Centers for Disease Control and Prevention, Conakry, Guinea

5:15 p.m.

643

PARASITES IN THE PARK: AN EPIDEMIOLOGIC STUDY OF NYC PARKS FOR TOXOCARA SPECIES

Donna L. Tyungu¹, Carla Lee Lau¹, Rojelio Mejia², Henry Pollack¹

¹New York University, New York, NY, United States, ²National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States

5:30 p.m.

644

USE OF TRACKING PLATES TO IDENTIFY HOTSPOTS OF RAT ABUNDANCE IN SLUM COMMUNITIES WITH HIGH ENDEMIC TRANSMISSION OF LEPTOSPIROSIS

Kathryn P. Hacker¹, Amanda Minter², Carolina Almeida³, Ramon Reinalde³, Mike Begon², Peter J. Diggle², James E. Childs¹, Mitermayer G. Reis⁴, Albert I. Ko¹, Federico Costa³

¹Yale University, New Haven, CT, United States, ²Institute of Integrative Biology, University of Liverpool, Liverpool, United Kingdom, ³Instituto de Biologia, Universidade Federal da Bahia, Salvador, Brazil, ⁴Centro de Pesquisas Gonçalo Moniz, Fundação Oswaldo Cruz, Salvador, Brazil

Symposium 44

Next-Generation Sequencing Technologies to Advance Global Infectious Disease Research

Marriott - Marquis B

Monday, November 14, 4 p.m. - 5:45 p.m.

The development of next-generation sequencing (NGS) technologies has fundamentally changed our ability to diagnose and study infectious diseases around the world. This is especially true for novel, emerging, or re-emerging diseases, which can often remain undiagnosed or underdiagnosed when only traditional assays and techniques are employed. NGS technologies, along with concomitant developments in computing and bioinformatics, are allowing researchers and public health professionals to identify circulating pathogens and detect outbreaks at unprecedented scales in a variety of settings. Unlike ever before, we can now quickly diagnose pathogens in thousands of samples, generate full genomes, thoroughly characterize them molecularly and phylogeographically, and follow them over time and space. Following a brief introduction on the current state of the field, four presentations will cover new developments and studies conducted using the Department of Defense's global network for surveillance of infectious diseases. This network includes multiple laboratories around the world that engage not only in surveillance detection, response and prevention, but also support partner nation capabilities and comply with WHO IHR (2005). Under the NGS umbrella, the session will cover developments in wet-lab handling of samples and in bioinformatics processing of NGS data, along with both

surveillance for and transmission dynamics studies of infectious pathogens. Together, the presentations will illustrate the diversity of applications possible with the use of this powerful new technology.

CHAIR

Mariana Leguia

U.S. Naval Medical Research Unit - 6, Lima, Peru

Clarise Starr

Wright-Patterson Air Force Base, OH, United States

4 p.m.

OVERVIEW: CURRENT STATE OF THE FIELD FOR NGS TECHNOLOGIES FOR PATHOGEN IDENTIFICATION AND CHARACTERIZATION

Clarise Starr

Wright-Patterson Air Force Base, OH, United States

4:15 p.m.

UNLEASHING THE POTENTIAL OF NGS WITH AUTOMATED, WEB-ENABLED BIOINFORMATICS

Patrick Chain

Los Alamos National Lab, Los Alamos, NM, United States

4:35 p.m.

DETECTION OF NGS APPLICATIONS FOR DETECTION AND CHARACTERIZATION OF VIRAL PATHOGENS

Michael R. Wiley

United States Army Medical Research Institute for Infectious Disease, Frederick, MD, United States

4:55 p.m.

SURVEILLANCE OF VIRAL EMERGING INFECTIOUS DISEASES USING NGS

Irina Maljkovic Berry

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

5:15 p.m.

WHOLE GENOME SEQUENCING TO UNRAVEL MRSA TRANSMISSION DYNAMICS AMONG SOLDIERS AT FORT BENNING

Gregory Rice

Naval Medical Research Center - Biological Defense Research Directorate, Frederick, MD, United States

Symposium 45

Bridging the Gap Towards Defining the Burden of Typhoid in Sub-Saharan Africa and Southeast Asia

Marriott - Marquis C

Monday, November 14, 4 p.m. - 5:45 p.m.

While the burden of typhoid fever is felt to be considerable—as high as 21.7 million illnesses with > 215,000 deaths has been estimated—there have been very few recent studies to provide granular estimates of incidence, severe disease and mortality at the regional level, as well as to identify ecologic factors influencing disease burden (like urban, rural, refugee settings). To address this gap in knowledge and to provide evidence for policy-making regarding the use of typhoid conjugate vaccines, the Bill & Melinda Gates Foundation has funded two multi-center typhoid disease burden projects: the Severe Typhoid in Africa (SETA) Program and the Surveillance for Enteric Fever in Asia Project

(SEAP). These projects aim to estimate the burden and severity of invasive *Salmonella* infections, report long-term sequelae and associated costs-of-illness, and assess the immune response to natural infection over one year. The focus of this symposium will be to define the current state of knowledge on typhoid disease burden, and to describe the approaches, new tools, scope and expected impacts from these multi-center studies, while alluding to other ongoing and recently completed typhoid disease burden studies. The objectives of the symposium are to define the burden of typhoid fever and describe its associated gaps in knowledge; explore two burden of disease studies and discuss what information will be learned as a result; and describe how data will be interpreted and subsequently utilized in prevention efforts moving forward.

CHAIR

Robert F. Breiman

Emory Global Health Institute, Atlanta, GA, United States

Anita Zaidi

Bill & Melinda Gates Foundation, Seattle, WA, United States

4 p.m.

THE HIGHS AND LOWS OF TYPHOID DISEASE BURDEN: A STORY OF INEQUITIES AND MOVING TARGETS

John A. Crump

Centre for International Health, University of Otago, Dunedin, New Zealand

4:20 p.m.

THE BURDEN OF TYPHOID IN SUB-SAHARAN AFRICA: LESSONS LEARNED FROM THE TYPHOID SURVEILLANCE IN AFRICA PROGRAM (TSAP), AND STEPS FORWARD WITH THE SETA PROGRAM

Florian Marks

International Vaccine Institute, Seoul, Republic of Korea

4:40 p.m.

CHARACTERIZING THE CURRENT BURDEN OF TYPHOID IN SOUTH ASIA: BUILDING ON EXISTING EVIDENCE THROUGH THE SURVEILLANCE FOR ENTERIC FEVER IN ASIA PROJECT (SEAP)

Denise Garrett

Coalition against Typhoid (CaT), Vaccine Advocacy and Education, Sabin Vaccine Institute, Washington, DC, United States

5 p.m.

CONSIDERATIONS FOR EXTRAPOLATING SITE-SPECIFIC DATA (SETA|SEAP) TO BROADER REGIONAL AND GLOBAL CONTEXTS

Jeff Stanaway

Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA, United States

5:20 p.m.

OPPORTUNITIES FOR BRIDGING DATA TO POLICY AND STRATEGIES FOR TYPHOID CONTROL

Adwoa Bentsi-Enchill

World Health Organization, Geneva, Switzerland

Scientific Session 46

Malaria: Epidemiology II - Descriptive and Risk-Factor Studies

Marriott - Marquis D

Monday, November 14, 4 p.m. - 5:45 p.m.

CHAIR

Elizabeth B. Brickley

Geisel School of Medicine at Dartmouth College, West Lebanon, NH, United States

Meghna Desai

Centers for Disease Control and Prevention, Atlanta, GA, United States

4 p.m.

645

FRACTION OF ALL UNDER FIVE DEATHS CAUSED DIRECTLY OR INDIRECTLY BY MALARIA IN SUB-SAHARAN AFRICA FROM 2000-2015

Donal Bisanzio¹, Bonnie Mappin², Harry S. Gibson¹, Samir Bhatt¹, Daniel J. Weiss¹, Ewan Cameron¹, Ursula Dalrymple¹, Peter W. Gething¹

¹Oxford University, Oxford, United Kingdom, ²University of Queensland, Brisbane, Australia

4:15 p.m.

646

THE DISTRIBUTION OF DHPS MUTATIONS IN AFRICA AND THEIR ASSOCIATION WITH DRUG PRESSURE AND TRANSMISSION INTENSITY

Lucy Okell¹, Inbarani Naidoo², Cally Roper³

¹Imperial College London, London, United Kingdom, ²Malaria Research Unit, Medical Research Council, London, South Africa, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

4:30 p.m.

647

PLASMODIUM FALCIPARUM AND P. VIVAX GAMETOCYTE CARRIAGE IN SOUTH AMERICA, ASIA AND THE SOUTH PACIFIC

Cristian Koepfli¹, Eline Kattenberg², Wang Nuiatragool³, Andrea Kuehn⁴, Andreea Waltmann¹, Maria Ome-Kaius², Ingrid Felger⁵, Jetsumon Sattabongkot³, Marcus Lacerda⁴, Leanne Robinson², Ivo Mueller¹

¹Walter and Eliza Hall Institute, Parkville, Australia, ²PNG Institute of Medical Research, Madang, Papua New Guinea, ³Mahidol University, Bangkok, Thailand, ⁴Fundação de Medicina Tropical Dr. Heitor Vieira Dourado, Manaus, Brazil, ⁵Swiss Tropical and Public Health Institute, Basel, Switzerland

4:45 p.m.

648

DIABETES AND OBESITY AS RISK FACTORS FOR SEVERE MALARIA: AN OBSERVATIONAL STUDY OF COMORBIDITIES IN PLASMODIUM FALCIPARUM CASES DIAGNOSED IN SWEDEN OVER 20 YEARS

Katja Wyss¹, Andreas Wängdahl², Maria Vesterlund¹, Dashti Saddudin¹, Pontus Naucler¹, Anna Färnert¹

¹Unit of Infectious Diseases, Department of Medicine Solna, Karolinska Institutet, Stockholm, Sweden, ²Department of Infectious Diseases, Västerås Central Hospital, Västerås, Sweden

5 p.m.

649

THE DESCRIPTIVE EPIDEMIOLOGY OF PEDIATRIC SEVERE MALARIAL ANEMIA IN MALI AND TANZANIA

Elizabeth B. Brickley¹, Angela M. Wood², Edward Kabyemela³, Alassane Dicko⁴, Michal Fried⁵, Patrick Duffy⁵

¹Geisel School of Medicine at Dartmouth College, West Lebanon, NH, United States, ²University of Cambridge, Cambridge, United Kingdom, ³Muheza Designated District Hospital, Muheza, United Republic of Tanzania, ⁴Malaria Research and Training Centre, University of Bamako, Bamako, Mali, ⁵Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

5:15 p.m.

650

TRAVEL PATTERNS AND DEMOGRAPHIC CHARACTERISTICS OF MALARIA CASES: THE CASE STUDY OF SWAZILAND, 2010-2014

Nomcebo Dlamini¹, Natalia Tejedor-Garavito², Deepa Pindolia³, Adam Soble⁴, Nick Ruktanonchai², Victor Alegana², Arnaud Le Menach⁵, Nyasatu Ntshalintshali⁴, Bongani Dlamini⁴, David Smith⁶, Andrew Tatem², Simon Kunene⁴

¹National Malaria Control Programme, Swaziland, Mbabane, Swaziland, ²WorldPop Project, University of Southampton, Southampton, United Kingdom, ³Clinton Health Access Initiative, Nairobi, Kenya, ⁴Clinton Health Access Initiative, Mbabane, Swaziland, ⁵Clinton Health Access Initiative, Boston, MA, United States, ⁶University of Washington, Seattle, WA, United States

5:30 p.m.

651

PLASMODIUM KNOWLESII MALARIA IN CHILDREN IN MALAYSIA: NO SEVERE DISEASE DESPITE AN INCREASED RISK OF ANAEMIA COMPARED TO ADULTS

Matthew J. Grigg¹, Timothy William², Bridget E. Barber¹, Giri S. Rajahram², Jayaram Menon², Christopher S. Wilkes¹, Kaajal Patel¹, Arjun Chandna¹, Christopher J. Drakeley³, Tsin W. Yeo¹, Nicholas M. Anstey¹

¹Menzies School of Health Research and Charles Darwin University, Darwin, Australia, ²Infectious Disease Society Kota Kinabalu Sabah - Clinical Research Centre Queen Elizabeth Hospital, Kota Kinabalu, Malaysia, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

Scientific Session 47

Kinetoplastida: Epidemiology and Diagnosis

Marriott - Room M103/M104/M105

Monday, November 14, 4 p.m. - 5:45 p.m.

CHAIR

Caryn Bern

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

Selma M. Jeronimo

Universidade Federal do Rio Grande do Norte, Natal, Brazil

4 p.m.

652

ASSESSMENTS OF WILDLIFE RESERVOIRS OF TRYPANOSOMA CRUZI AND THEIR INTERACTIONS WITH TRIATOMINE VECTORS ACROSS TEXAS

Sarah A. Hamer, Rachel Curtis-Robles, Carolyn L. Hodo, Gabriel L. Hamer
Texas A&M University, College Station, TX, United States

4:15 p.m.

653

LEISHMANIA INFANTUM PARASITEMIA IN ASYMPTOMATIC BLOOD DONORS IN AN ENDEMIC REGION OF NORTHEAST BRAZIL

Selma M. Jeronimo¹, Gloria R. Monteiro¹, Jethé Nunes¹, Jason L. Weirather², Joanna G. Valverde¹, Emma L. Mohr³, Virginia P. Macedo-Silva¹, Jose W. Queiroz¹, Francisco S. Bezerra⁴, Kathryn M. Dupnik⁵, Richard D. Pearson⁶, Mary E. Wilson²

¹Federal University of Rio Grande do Norte, Natal, Brazil, ²University of Iowa, Iowa City, IA, United States, ³Emory University, Atlanta, GA, United States, ⁴Universidade Federal Rural do Semi Arido, Mossoro, Brazil, ⁵Cornell University, New York, NY, United States, ⁶University of Virginia, Charlottesville, VA, United States

4:30 p.m.

654

CUTANEOUS AND MUCOCUTANEOUS LEISHMANIASIS IN INTERNATIONAL TRAVELERS: RESULTS FROM THE GEOSENTINEL SURVEILLANCE NETWORK

Andrea K. Boggild¹, Eric Caumes², Bradley A. Connor³, Sumontra Chakrabarti⁴, Philippe Parola⁵, Noreen A. Hynes⁶, Jay S. Keystone¹, Michael Libman⁷, Theodore Nash⁸, Eli Schwartz⁹, Adrienne J. Showler¹⁰, Davidson H. Hamer¹¹, Kevin C. Kain¹

¹University of Toronto, Toronto, ON, Canada, ²University Pierre et Marie Curie, Paris, France, ³Weill Cornell Medical College, New York, NY, United States, ⁴Trillium Health Sciences Centre, Mississauga, ON, Canada, ⁵University Hospital Institute for Infectious Diseases, Aix-Marseille University, Marseille, France, ⁶Johns Hopkins University School of Medicine, Baltimore, MD, United States, ⁷J.D. MacLean Centre for Tropical Diseases, McGill University Health Centre, Montreal, QC, Canada, ⁸National Institutes of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁹Sheba Medical Center Tel Hashomer & Sackler School of Medicine, Tel Aviv University, Tel Aviv, Israel, ¹⁰Johns Hopkins University Bloomberg School Public Health, Baltimore, MD, United States, ¹¹Boston University School of Public Health; Boston University School of Medicine, Boston, MA, United States

4:45 p.m.

655

ASSOCIATIONS BETWEEN PARASITOLOGICAL AND SEROLOGICAL INDICATORS OF INFECTION AND THE DEVELOPMENT OF CLINICAL VISCERAL LEISHMANIASIS IN ETHIOPIA

Asrat Hailu¹, Laura Skrip², Oscar Kirstein³, Welelta Shiferaw¹, Shewaye Belay⁴, Aysheshm Kassahun¹, Asrat Bezuneh¹, Habtamu Belete¹, Alison Galvani², Charle Jaffe³, Alon Warburg³, Amit Huppert⁵

¹Addis Ababa University, Addis Ababa, Ethiopia, ²Yale School of Public Health, New Haven, CT, United States, ³The Hebrew University of Jerusalem, Jerusalem, Israel, ⁴Mekele University, Mekele, Ethiopia, ⁵The Gertner Institute for Epidemiology and Health Policy Research, Ramat Gan, Israel

5 p.m.

656

PROGRESSION AND MORTALITY RATES FOR MODELLING THE BURDEN OF CHAGAS DISEASE

Zulma Cucunubá, Pierre Nouvellet, Omolade Okuwoga, Lesong Conteh, María-Gloria Basañez

Imperial College London, London, United Kingdom

5:15 p.m.

657

DEFINITIONS AND FEASIBILITY OF ELIMINATION OF VISCERAL LEISHMANIASIS

Epke Le Rutte¹, Lloyd A. Chapman², Luc E. Coffeng¹, Sarah Jervis², Graham F. Medley³, Deirdre T. Hollingsworth², Sake J. de Vlas¹

¹Erasmus MC, Rotterdam, Netherlands, ²University of Warwick, Warwick, United Kingdom, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

5:30 p.m.

658

VISCERAL LEISHMANIASIS IN THE INDIAN SUBCONTINENT: HOW MUCH DO ASYMPTOMATICS CONTRIBUTE TO TRANSMISSION AND HOW DOES TRANSMISSION DECREASE WITH DISTANCE FROM A CASE?

Lloyd Chapman¹, Rajib Chowdhury², Caryn Bern³, Orin Courtenay¹, Graham Medley⁴, Deirdre Hollingsworth¹

¹University of Warwick, Coventry, United Kingdom, ²KalaCORE Programme, Dhaka, Bangladesh, ³University of California San Francisco, San Francisco, CA, United States, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom

Symposium 48

Inaugural Alan J. Magill Malaria Eradication Symposium

Marriott - Atrium A

Monday, November 14, 4 p.m. - 5:45 p.m.

Supported with funding from the Bill & Melinda Gates Foundation



To honor 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 as the Malaria Director at the Bill & Melinda Gates Foundation, a symposium on malaria eradication will be held each year during the Annual Meeting. This inaugural symposium will include a historical review of lessons from

previous malaria eradication campaigns, cutting-edge science that may transform malaria eradication strategies, the latest results of applications of molecular and immunological tools to understand malaria transmission, and challenges and progress in the development of a Single Encounter Radical Cure and Prophylaxis (SERCaP) drug for malaria eradication. These talks will be followed by a panel discussion of prospects of and progress toward malaria eradication at which diverse viewpoints will be solicited from the panelists and audience. Melinda Gates will provide introductory remarks via video.

CHAIR

Christopher V. Plowe

Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

Regina Rabinovich

Harvard T.H. Chan School of Public Health, Boston, MA, United States

4 p.m.

OPENING REMARKS (VIDEO)

Melinda Gates

Bill & Melinda Gates Foundation, Seattle, WA, United States

4:05 p.m.

THE CASE FOR MALARIA ERADICATION

Bruno Moonen

Bill & Melinda Gates Foundation, Seattle, WA, United States

4:15 p.m.

MALARIA ERADICATION: HISTORICAL LESSONS AND NEW STRATEGIES

Pedro Alonso

World Health Organization, Geneva, Switzerland

4:35 p.m.

EXPANDING THE ERADICATION TOOLKIT

Dyann Wirth

Harvard T.H. Chan School of Public Health, Boston, MA, United States

4:55 p.m.

MALARIA'S FOOTSTEPS: SEEING TRANSMISSION THROUGH THE LENS OF HOST IMMUNITY

Chris Drakeley

London School of Hygiene & Tropical Medicine, London, United Kingdom

5:15 p.m.

THE KNOCKOUT PUNCH: SINGLE ENCOUNTER RADICAL CURE AND PROPHYLAXIS

Thierry Diagana

Novartis Institute for Tropical Diseases, Singapore, Singapore

5:35 p.m.

DISCUSSION AND QUESTIONS

Symposium 49

Global Health Education, Service and Research Opportunities for Medical Students and Trainees: Successes, Challenges and Opportunities

Marriott - Atrium B

Monday, November 14, 4 p.m. - 5:45 p.m.

There is tremendous interest in global health (GH) among medical students and trainees in high-income countries (HIC). HIC institutions are engaging universities, non-governmental organizations, and other partners in low- and middle-income countries (LMIC) to address partners in low- and middle-income countries (LMIC) to address key education, service and research GH priorities. While this creates opportunities for education for the trainees and potentially service for the host community, it also creates significant logistical burdens and potential ethical challenges. Medical schools are developing curricula with increasing emphasis on competencies in GH and innovative strategies are being developed to meet the needs of HIC trainees while dealing with the logistical and ethical issues. This symposium will share experiences of faculty who lead unique global health education and research programs in LMIC. Challenges and concerns will be described and discussed and success stories from key GH programs will be shared. The first presenter will discuss the complex ethical issues involved in short-term GH service and research projects involving students and trainees from HIC travelling to LMIC and highlight the importance of a rights-based approach to health. The second presenter is the Executive Director of Andean Health & Development (AHD), which operates hospitals in underserved areas of Ecuador and frequently receives requests from U.S. trainees to perform rotations. This presenter will describe the challenges involved in bearing the costs and the responsibilities to both the trainees and the patients when accepting these requests and financial and academic strategies he has developed

Monday
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to deal with those challenges. The third speaker will discuss the successes and challenges of implementing an innovative surgery program in the Dominican Republic in collaboration with a corporate sponsor. The final presenter has developed a two-week course in field epidemiology that is very popular with trainees from the U.S. Work is focused on hands-on activities such as case tracing, vector and reservoir collection and control, and respiratory virus surveillance. This presenter will discuss the development of a course with a defined curriculum as an alternative to clinical rotations and the value of partnering with U.S. institutions to tailor courses to the needs of their students as an innovative approach to GH training.

CHAIR

John W. Sanders

Wake Forest University School of Medicine, Winston-Salem, NC, United States

Avi Shetty

Wake Forest University School of Medicine, Winston-Salem, NC, United States

4 p.m.

ETHICAL CHALLENGES IN SHORT TERM GLOBAL HEALTH PROJECTS

Dabney Evans

Emory University, Rollins School of Public Health, Atlanta, GA, United States

4:20 p.m.

MANAGING THE BURDEN OF HOSTING STUDENTS FOR CLINICAL ROTATIONS

David Gaus

University of Wisconsin, Madison, WI, United States

4:40 p.m.

UNEXPECTED CHALLENGES AND REWARDING SUCCESSES IN DEVELOPING A RECURRING SURGICAL MISSION

James D. Browne

Wake Forest University School of Medicine, Winston-Salem, NC, United States

5 p.m.

A FIELD EPIDEMIOLOGY COURSE: AN INNOVATIVE ALTERNATIVE APPROACH TO GLOBAL HEALTH TRAINING

Andres G. Lescano

Universidad Peruana Cayetano Heredia, School of Public Health and Management, Lima, Peru

Symposium 50

Mapping the Denominator

Marriott - Room A602

Monday, November 14, 4 p.m. - 5:45 p.m.

Reliable health metrics are crucial for accurately assessing disease burden, epidemiological modelling and planning of interventions. Moreover, many Sustainable Development Goal (SDG) health indicators will be measured through passive surveillance systems reporting at the level of health facilities or districts and are reliant on estimates of facility catchment or district populations to convert case counts to population-level metrics. Typically, denominators are based on static census-derived estimates or annual projections from these baselines. However, in low-income settings, census population counts can be unreliable and outdated. Moreover, they only provide a single snapshot of estimates, often missing substantial seasonal changes in population distributions. This symposium

will provide participants with an overview of ongoing work on 'bottom-up' population mapping, whereby subnational population distributions, demographics and dynamics are estimated in the absence of census data, using a combination of satellite, survey and cellphone data. The first presentation will describe the work being lead by the Gates Foundation in producing detailed maps of settlements, populations and their demographics in Nigeria and other low income countries. The presenter will outline how these data are vital to planning and undertaking polio vaccination in northern Nigeria, and how the maps are being used for wider public health purposes. The second speaker will outline the work of a team in mapping human settlements from 0.5m resolution satellite imagery to provide the basis for mapping population distributions for the Nigeria project. The session will then describe approaches used to integrate the satellite-derived maps of human settlement with ground surveys in statistical models to estimate population distributions and demographics, drawing from applications in Nigeria in collaboration with the Bill & Melinda Gates Foundation, and Afghanistan in collaboration with UNFPA. The final presenter will describe work on mapping population dynamics using mobile phone call data records and demonstrate how this novel data source can be used to derive weekly, monthly and annual estimates of population distributions at high resolution. In collaboration with malaria control programs, the presenter will show how utilizing these denominator estimates over static census-based estimates result in significantly different malaria incidence estimates that better account for seasonal changes in health facility catchment population sizes.

CHAIR

Andrew J. Tatem

University of Southampton, Southampton, United Kingdom

4 p.m.

BOTTOM-UP POPULATION ESTIMATION FOR POLIO VACCINATION PLANNING

Vince Seaman

Bill & Melinda Gates Foundation, Seattle, WA, United States

4:20 p.m.

MAPPING HUMAN SETTLEMENTS AT HIGH RESOLUTION FROM SATELLITE IMAGERY FOR PUBLIC HEALTH SUPPORT

Budhu Bhaduri

Oak Ridge National Laboratories, Knoxville, TN, United States

4:40 p.m.

BAYESIAN GEOSTATISTICAL MODELLING OF POPULATION DISTRIBUTIONS AND DEMOGRAPHICS FOR HEALTH APPLICATIONS

Nicola Wardrop

WorldPop, Southampton, United Kingdom

5 p.m.

THE USE OF CELLPHONE CALL DATA RECORDS TO MAP DENOMINATOR DYNAMICS

Elisabeth zu Erbach-Schoenberg

Flowminder Foundation, Stockholm, Sweden

Scientific Session 51

Mosquitoes: Vector Biology - Epidemiology II

Marriott - Room A706/A707

Monday, November 14, 4 p.m. - 5:45 p.m.

CHAIR

Marco Pombi

Sanità Pubblica e Malattie Infettive, Università di Roma, Rome, Italy

Courtney Shelley

University of California Davis, Davis, CA, United States

4 p.m.

659**DOES ARTIMISININ BASED COMBINATION THERAPY INFLUENCE MOSQUITO FITNESS AND HOST-SEEKING BEHAVIOR?**

Jetske de boer, Annette Busula, Willem Takken

Wageningen University, Wageningen, Netherlands

4:15 p.m.

660**UNEXPECTEDLY LOW HUMAN BLOOD INDEX ASSOCIATED TO HIGH PLASMODIUM SPOOROZITE RATES IN ANOPHELES GAMBIAE COMPLEX SPECIES FROM A LLIN-PROTECTED VILLAGE IN BURKINA FASO**

Marco Pombi¹, Maria Calzetta², Wamdaogo M. Guelbeogo³, Emiliano Mancini⁴, N'Fale Sagnon³, Hilary Ranson⁵, Alessandra della Torre²

¹Dip. Sanità Pubblica e Malattie Infettive - Università di Roma "Sapienza", Rome, Italy, ²Dip. Sanità Pubblica e Malattie Infettive - Università di Roma, Rome, Italy,

³Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, ⁴Dipartimento di Scienze - Università Roma Tre, Rome, Italy, ⁵Liverpool School of Tropical Medicine, Liverpool, United Kingdom

4:30 p.m.

661**THE WMEL STRAIN OF WOLBACHIA REDUCES TRANSMISSION OF ZIKA VIRUS IN Aedes Aegypti**

Matthew T. Aliota¹, Stephen A. Peinado¹, Ivan Dario Velez², Jorge E. Osorio¹

¹University of Wisconsin Madison, Madison, WI, United States, ²Programa de Estudio y Control de Enfermedades Tropicales (PECE), Medellín, Colombia

4:45 p.m.

662**COMBINING CONTACT TRACING WITH TARGETED INDOOR RESIDUAL SPRAYING SIGNIFICANTLY IMPACTS DENGUE TRANSMISSION**

Gonzalo M. Vazquez-Prokopec¹, Brian Montgomery², Peter Horne³, Julie Clennon¹, Scott Ritchie⁴

¹Emory University, Atlanta, GA, United States, ²Queensland Health, Brisbane, Australia, ³Queensland Health, Cairns, Australia, ⁴James Cook University, Cairns, Australia

5 p.m.

663**ZIKA VIRUS IN THE AMERICAS: A MODEL-BASED ASSESSMENT OF FACTORS AFFECTING EMERGENCE**

Courtney D. Shelley, Christopher M. Barker

University of California Davis, Davis, CA, United States

5:15 p.m.

664**WIND-ASSISTED LONG-DISTANCE MIGRATION OF MALARIA MOSQUITOES IN THE SAHEL**

Tovi Lehmann¹, Diana Huestis¹, Alpha Yaro², Jenna Florio¹, Moussa Diallo², Zana Sanogo², Samake Djibril², Roy Faiman¹, Jason W. Chapman³, Donald R. Reynolds⁴, Laura E. Burgin⁵, Adama Dao²

¹National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ²ICER Mali, Bamako, Mali, ³Department of AgroEcology, Rothamsted Research, Harpenden, United Kingdom, ⁴Department of AgroEcology, Rothamsted Research, Harpenden, United Kingdom, ⁵Met Office, London, United Kingdom

5:30 p.m.

665**GENERIC AND STANDARDIZED DATA COLLECTION FORMS AND DATABASE APPLICABLE TO DIVERSE ENTOMOLOGICAL STUDIES OF MOSQUITOES**

Samson S. Kiware¹, Alpha Malishee¹, Dickson Msaky¹, George Corliss², Gerry Killeen¹

¹Ifakara Health Institute, Dar Es Salaam, United Republic of Tanzania, ²Marquette University, Milwaukee, WI, United States

Peer-to-Peer Networking Session: Navigate as an Early Career Professional and Build Your Peer Network

Marriott - Room M301/M302

Monday, November 14, 5:45 p.m. - 6:45 p.m.

Please note that this meeting is limited to those who pre-registered for the event.

Peer networking is an essential skill to establish and progress through a career in science, yet often not addressed in graduate research programs. The connections you establish with peers today can be the foundation of future employment, career advancement, key collaborations, successful grants and major scientific advances. This one-hour student networking event will start with a brief overview of tips to navigate toward a first or early career position by professionals currently working within the field of global health, including how to maximize networking platforms like social and other online media. After Q&A with the panelists, students and trainees will participate in a networking exercise and mixer to facilitate a successful interaction among peers. Students will have the opportunity to "build their peer network" with other students and trainees in global health.

CHAIR

Koya C. Allen

U.S. European Command Headquarters, U.S. Department of Defense, Stuttgart, Germany

Maha A. Elbadry

University of Florida, Gainesville, FL, United States

Simon Pollett

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

Monday
November 14

Plenary Session 52

Plenary Session II: Charles Franklin Craig Lecture

Marriott - Marquis B

Monday, November 14, 6:15 p.m. - 7 p.m.



Charles Franklin Craig

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, he began a long association with the Army Medical School in Washington, DC in 1909, 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

Robert B. Tesh

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

6:15 p.m.

INTRODUCTION

Scott Weaver

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

6:30 p.m.

CHARLES FRANKLIN CRAIG LECTURE: THE EMERGENCE OF ZIKA CONGENITAL SYNDROME



Albert Icksang Ko, MD, FACP, FIDSA

*Professor and Department Chair, Epidemiology
of Microbial Diseases*

Yale School of Public Health

*Collaborating Investigator, Oswaldo Cruz
Foundation, Brazilian Ministry of Health*

After graduating from Harvard Medical School, Albert Ko performed his residency at Brigham and Women's Hospital and infectious disease fellowship at Massachusetts General Hospital. At Weill Medical College of Cornell University faculty, he spent 15 years at the Oswaldo Cruz Foundation in the city of Salvador, Brazil, where he and his colleagues established a Global Infectious Disease Training Program. In 2010, Dr. Ko became Chair of the Department of Epidemiology and Microbiology at the Yale School of Public Health and Medicine. He also serves as its Director for the Fogarty Global Health Equity Scholars Program. Dr. Ko's research centers on health problems that have emerged as a consequence of rapid urbanization and social inequity. He coordinates a research and training program on urban slum health in Brazil and conducts prospective cohort studies on leptospirosis, dengue, meningitis

and respiratory infections. His research combines multidisciplinary epidemiology, ecology and translational research-based approaches to identify prevention and control strategies that can be implemented in slum communities. More recently, Dr. Ko and his team have mobilized the public health research capacity at their site in the city of Salvador to investigate the ongoing outbreak of Zika virus infection and microcephaly.

Poster Session A Dismantle

Hilton - Grand Ballroom and Grand Salon

Monday, November 14, 7 p.m. - 8 p.m.

Sponsored Symposium

Applying Experience from the Management of Infectious Diseases to Address the Rise of Chronic Illness in the Developing World

Marriott - Imperial A

Monday, November 14, 7:15 p.m. - 9 p.m.

Sponsored by Novartis Social Business

See page 41 for information.

Sponsored Symposium

Malaria. Faster and More Accurate Diagnosis is Vital in the Fight for Eradication

Marriott Marquis D

Monday, November 14, 7:15 p.m. - 9 p.m.

Sponsored by Meridian Bioscience, Inc.

See page 41 for information.

Tuesday, November 15

Registration

Marriott - Marquis Foyer

Tuesday, November 15, 7 a.m. - 5 p.m.

Speaker Ready Room

Marriott - International A

Tuesday, November 15, 7 a.m. - 5 p.m.

TropStop - Student/Trainee Lounge

Marriott - Atrium Loft

Tuesday, November 15, 7 a.m. - 5 p.m.

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 "Office Hours," held in the TropStop. This will be your opportunity to meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Internet Nook

Marriott - Imperial Foyer

Tuesday, November 15, 7 a.m. - 5 p.m.

Sponsored by Takeda Pharmaceuticals International AG

PREMIER

Meeting Sign-Up Room

Hilton - Rooms 206 and 207

Tuesday, November 15, 7 a.m. - 10 p.m.

AJTMH Editorial Board Meeting

Marriott - Room M202

Tuesday, November 15, 7 a.m. - 8 a.m.

Clinical Group (ACCTMTH) Past Presidents Meeting

Hilton - Room 205

Tuesday, November 15, 7 a.m. - 8 a.m.

Education Committee Meeting

Marriott - Room M108

Tuesday, November 15, 7 a.m. - 8 a.m.

Shope Fellowship Committee Meeting

Hilton - Room 208

Tuesday, November 15, 7 a.m. - 8 a.m.

Special Interactive Experience: The Refugee Journey to Wellbeing

Marriott - Atrium Foyer

Tuesday, November 15, 7:30 a.m. - 7 p.m.

At the end of 2015, there were an estimated 65.3 million people displaced around the world, largely because of extended conflicts in the Middle East, Northern and sub-Saharan Africa, and Asia. The American Society of Tropical Medicine and Hygiene and the U.S. Centers for Disease Control and Prevention (CDC), with participation from a number of domestic and international partners, are hosting this unique interactive experience on refugee health. Through video, photos, live testimonials, hands-on activities and replicated scenes from the field, The Refugee Journey to Wellbeing highlights the clinical and public health aspects of the refugee experience from displacement to resettlement.

Press Room

Marriott - Room M102

Tuesday, November 15, 8 a.m. - 5 p.m.

Symposium 53

The 14th Annual American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium: Parasitology and the CRISPR-Cas Revolution

Marriott - Imperial A

Tuesday, November 15, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

Parasites that cause significant tropical disease span a broad range of species, most of which are only distantly related to model experimental eukaryotes. This means that much of their biology is unique, and must be studied in the organisms themselves rather than inferred from model systems. Genetic manipulation has been a major tool to investigate this unique biology, but its application has often been limited and is currently routine in only a handful of parasite species. Genome editing by the CRISPR-Cas system radically increases the efficiency of genetic manipulation by using short guide RNAs to target an endonuclease to generate double stranded breaks at specific locations in genomes. CRISPR-Cas systems, and variants thereof, are currently revolutionizing genetic manipulation in many areas of biology, and have the potential to do the same to the study of parasite species. This symposium will present the current state of the art in the application of CRISPR-Cas to globally significant parasites species and the vectors that transmit them. In keeping with the breadth of fundamental parasitology covered by ACMCIP, the symposium covers a range of significant species: *Leishmania donovani*, the causative agent of visceral leishmaniasis; *Cryptosporidium parvum*, where genetic manipulation was not possible before the application of CRISPR-Cas; *Plasmodium falciparum*, where CRISPR-Cas is being applied to understand drug resistance and raising the prospect of large-scale genetic screens, and *Anopheles* species, where CRISPR-Cas is being applied to gene drive mechanisms aimed at controlling malaria transmission. The symposium will explain the science behind these revolutionary tools, and outline how they are being used to both understand basic parasite biology as well as to develop novel intervention tools.

CHAIR

Julian C. Rayner

Wellcome Trust Sanger Institute, Cambridge, United Kingdom

Christine Petersen

University of Iowa, Iowa City, United States

8 a.m.

CRISPR-CAS DRIVEN GENETIC MANIPULATION OF THE DIARRHEAL PATHOGEN *CRYPTOSPORIDIUM PARVUM*

Boris Striepen

University of Georgia, Athens, GA, United States

8:20 a.m.

NEW TOOLS FOR MANIPULATION OF *PLASMODIUM FALCIPARUM* BY CRISPR-CAS

Jacquin C. Niles

Massachusetts Institute of Technology, Cambridge, MA, United States

8:40 a.m.

CRISPR-CAS, LEISHMANIA PARASITES AND ATTENUATED STRAINS FOR VACCINE DEVELOPMENT

Greg Matlashewski

McGill University, Montreal, QC, Canada

9 a.m.

CRISPR-CAS IN ANOPHELES MOSQUITOES: A POWERFUL TOOL TO BLOCK MALARIA TRANSMISSION

Flaminia Catteruccia

Harvard T.H. Chan School of Public Health, Cambridge, MA, United States

9:30 a.m.

ACMCIP ANNUAL BUSINESS MEETING

Julian C. Rayner

Welcome Trust Sanger Institute, Cambridge, United Kingdom

Symposium 54

Advanced Diagnostics in Filarial Infections

Marriott - Imperial B

Tuesday, November 15, 8 a.m. - 9:45 a.m.

This symposium will detail the most cutting-edge diagnostics available - and on the horizon - for filarial infections. Emphasis will be placed on rapid point-of-contact approaches to filarial infections, with a particular emphasis on those filarial infections with overlapping geographic distribution (e.g. *Wuchereria bancrofti*, *Onchocerca volvulus*, *Loa loa*, and *Mansonella perstans*).

CHAIR

Thomas B. Nutman

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States

8 a.m.

MOBILE PHONE BASED VIDEOMICROSCOPY FOR QUANTITATION OF LOA LOA (AND OTHER FILARIA) MICROFILARIAE

Daniel Fletcher

University of California Berkeley, Berkeley, CA, United States

8:25 a.m.

MOLECULAR APPROACHES TO THE DIAGNOSIS OF FILARIAL INFECTIONS OF HUMANS

Steven A. Williams

Smith College, Northampton, MA, United States

8:50 a.m.

NEW GENERATION RAPID DIAGNOSTIC TESTS IN FILARIAL INFECTIONS

Tala de los Santos

PATH, Seattle, WA, United States

9:15 a.m.

MULTIPLEXED IMMUNOASSAYS FOR FILARIAL INFECTIONS

Patrick Lammie

Centers for Disease Control and Prevention/Task Force for Global Health, Atlanta, GA, United States

Symposium 55

Malaria Elimination Strategies Using Targeted and Mass Drug Administration: Lessons from the Field

Marriott - Marquis A

Tuesday, November 15, 8 a.m. - 9:45 a.m.

Attempts to determine the effectiveness of and operationalize community-based treatment strategies to accelerate malaria elimination have gained momentum in recent years. Mass drug administration (MDA) strategies for malaria are being explored in a number of countries and, in combination with vector control strategies, potentially provides an effective complement to help countries achieve malaria elimination in certain settings. Many questions exist regarding effectiveness or cost-effectiveness of MDA strategies, in combination with other strategies. Further, once effectiveness is known, operational parameters including appropriate levels of transmission, methods for obtaining optimal coverage, frequency of application, and concomitant exit strategies are needed to move from research to policy prior to targeted scale up. Effective combinations of chemotherapeutic and vector control interventions likely also yields dramatic changes in the resulting parasite genomic structure which may provide clues to the progress towards achieving elimination. Research on malaria MDA activities from three countries, Senegal, Zambia and Mozambique will be reviewed to share experiences and lessons learned related to effectiveness, cost-effectives, and operational parameters for success. Zambia has recently completed a two-year community-randomized controlled trial assessing the impact of MDA with dihydroartemisinin + piperazine (DHAp). This session will present on the effectiveness, cost-effectiveness, coverage and acceptability of MDA strategies from high and low transmission areas in Southern Zambia. The symposium will include a presentation on the extent to which a targeted malaria control strategy combining vector control with indoor residual spraying and chemotherapy reduced malaria in Central Senegal. The session will describe lessons learned from a pilot elimination strategy including results from MDA in a district in southern Mozambique. The final speaker will present on the genetic signals to detect and measure changes in malaria transmission in the context of MDA interventions, including evidence from these three study areas in Senegal, Mozambique and Zambia. This symposium will showcase the collective efforts of these research and implementation groups and will share lessons learned from the application of community-based treatment strategies in combination with vector control from diverse transmission and malaria programming backgrounds, including the latest methods for evaluating malaria elimination strategies.

CHAIR

John M. Miller

MACEPA, PATH, Lusaka, Zambia

Thom Eisele

Tulane University, New Orleans, LA, United States

8 a.m.

REVIEW OF THE EXTENT TO WHICH A TARGETED MALARIA CONTROL STRATEGY COMBINING VECTOR CONTROL WITH INDOOR RESIDUAL SPRAYING AND CHEMOTHERAPY, REDUCED MALARIA IN CENTRAL SENEGAL

Badara Cisse

Université Cheikh Anta Diop, Dakar, Senegal

8:15 a.m.

LESSONS LEARNED FROM A PILOT ELIMINATION STRATEGY INCLUDING RESULTS FROM MDA IN A DISTRICT IN SOUTHERN MOZAMBIQUE

Pedro Aide

Centro de Investigação em Saúde de Manhiça (CISM), Manhica, Mozambique

8:30 a.m.

THE EFFECTIVENESS, COST-EFFECTIVENESS, COVERAGE AND ACCEPTABILITY OF MDA STRATEGIES FROM HIGH AND LOW TRANSMISSION AREAS IN SOUTHERN ZAMBIA

Thom Eisele

International Health and Development, Tulane University, New Orleans, LA, United States

8:45 a.m.

GENETIC SIGNALS TO DETECT AND MEASURE CHANGES IN MALARIA TRANSMISSION IN THE CONTEXT OF MDA AND FDA INTERVENTIONS

Sarah K. Volkman

Harvard School of Public Health, Boston, MA, United States

Scientific Session 56

Global Health: Ebola

Marriott - Marquis B

Tuesday, November 15, 8 a.m. - 9:45 a.m.

CHAIR

Aminata Fofana

IRSS, Bobo-Dioulasso, Burkina Faso

Suzanne Van Hulle

Catholic Relief Services, Baltimore, MD, United States

8 a.m.

666

IMPLEMENTATION OF A MULTI-COUNTRY RESPONSE TO THE EBOLA VIRUS DISEASE EPIDEMIC IN WEST AFRICA: LESSONS FROM THE FIELD

Reshma Roshania¹, Nelson Dunbar², Michaela Mallow¹, Pranav Shetty¹, Taralyn Lyon¹, Kacey Pham¹, Matthew Abad¹, Erin Shedd¹, Alexander Tran¹, Sarah Cundy¹, Adam Levine³

¹International Medical Corps, Los Angeles, CA, United States, ²Ministry of Health, Monrovia, Liberia, ³Warren Alpert Medical School of Brown University, Providence, RI, United States

8:15 a.m.

667

THE NATURAL HISTORY OF EBOLA VIRUS DISEASE: A RETROSPECTIVE STUDY OF THE WEST AFRICA EPIDEMIC

Reshma Roshania¹, Kelly Skrable², Ryan Burbach¹, Nelson Dunbar³, Adam Levine²

¹International Medical Corps, Los Angeles, CA, United States, ²Warren Alpert Medical School of Brown University, Providence, RI, United States, ³Ministry of Health, Monrovia, Liberia

8:30 a.m.

668

BIAS ADJUSTMENT OF CASE FATALITY RATE ESTIMATES IN THE EBOLA OUTBREAK IN WEST AFRICA

Tini Garske, World Health Organization Ebola Response Team

Imperial College, London, United Kingdom

8:45 a.m.

669

QUANTIFICATION OF THE IMPACT OF SAFE AND DIGNIFIED BURIALS DURING THE 2013-2016 WEST AFRICAN EBOLA VIRUS DISEASE EPIDEMIC

Amanda Tiffany¹, Benjamin Dalziel², Ginger Johnson³, Juliet Bedford⁴, Amanda McClelland⁵

¹Epicentre, Geneva, Switzerland, ²Princeton University, Princeton, NJ, United States, ³Anthrologica, Washington, DC, United States, ⁴Anthrologica, Oxford, United Kingdom, ⁵International Federation of the Red Cross and Red Crescent Societies, Geneva, Switzerland

9 a.m.

670

MORTALITY OUTCOMES AMONG PATIENTS WITH VARIABLE INFECTION STATES WITH EBOLA VIRUS DISEASE AND MALARIA IN SIERRA LEONE: A RETROSPECTIVE COHORT STUDY

Adam Aluisio¹, Matthew Waxman², Adam Levine¹

¹Warren Alpert Medical School of Brown University, Providence, RI, United States, ²Olive View - University of California Los Angeles Medical Center, Los Angeles, CA, United States

9:15 a.m.

671

IMPLEMENTING SEASONAL MALARIA CHEMOPREVENTION (SMC) IN THE CONTEXT OF EBOLA VIRUS DISEASE (EVD) IN GUINEA

Suzanne Van Hulle¹, Timothee Guilavogui²

¹Catholic Relief Services, Baltimore, MD, United States, ²National Malaria Control Program of the Republic of Guinea, Conakry, Guinea

Scientific Session 57

Water, Sanitation, Hygiene and Environmental Health I

Marriott - Marquis C

Tuesday, November 15, 8 a.m. - 9:45 a.m.

CHAIR

Suzanne J. Campbell

Australian National University, Canberra, ACT, Australia

Ayse Ercumen

University of California Berkeley, Berkeley, CA, United States

8 a.m.

672

EFFECTS OF FUNCTIONAL LATRINE DENSITY ON HOUSEHOLD DRINKING WATER CONTAMINATION, SOIL-TRANSMITTED HELMINTH INFECTION AND DIARRHEA: A SPATIAL ANALYSIS

Heather K. Amato¹, Howard Chang¹, Sophie Boisson², Thomas F. Clasen¹

¹Emory University, Atlanta, GA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom

8:15 a.m.

673

FECAL CONTAMINATION ALONG MULTIPLE ENVIRONMENTAL PATHWAYS IS ASSOCIATED WITH SUBSEQUENT DIARRHEA AMONG CHILDREN IN RURAL BANGLADESH

Amy J. Pickering¹, Ayse Ercumen², Benjamin F. Arnold², Laura H. Kwong¹, Sarker Masud Parvez³, Craig Kullmann⁴, Rokeya Ahmed⁵, Claire Chase⁴, Leanne Unicomb³, John M. Colford², Stephen P. Luby¹

¹Stanford University, Stanford, CA, United States, ²University of California Berkeley, Berkeley, CA, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴The World Bank, Washington, DC, United States, ⁵The World Bank, Dhaka, Bangladesh

8:30 a.m.

674

QUANTIFYING FECAL CONTAMINATION LEVELS OF DRINKING AND AMBIENT WATERS, HANDS, FOOD, SOIL AND FLIES IN THE DOMESTIC ENVIRONMENT IN RURAL BANGLADESH

Ayse Ercumen¹, Amy J. Pickering², Benjamin F. Arnold¹, Laura H. Kwong², Sarker Masud Parvez³, Craig Kullman⁴, Claire Chase⁴, Rokeya Ahmed⁵, Leanne Unicomb³, Stephen P. Luby², John M. Colford, Jr.¹

¹University of California Berkeley, Berkeley, CA, United States, ²Stanford University, Stanford, CA, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴Water and Sanitation Program, World Bank, Washington, DC, United States, ⁵Water and Sanitation Program, World Bank, Dhaka, Bangladesh

8:45 a.m.

675

UNSAFE CHILD FECES DISPOSAL IS ASSOCIATED WITH ENVIRONMENTAL ENTEROPATHY AND IMPAIRED GROWTH

Christine Marie George¹, Lauren Oldja¹, Shwapon Biswas², Jamie Perin¹, R. Bradley Sack¹, Shahnawaz Ahmed², Shahnawaj Ali², Rashidul Haque², Tahmina Parvin², Ishrat J. Azmi², Sazzadul Islam Bhuyian², Kaisar A. Talukder², Abu G. Faruque²

¹Johns Hopkins University, Baltimore, MD, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

9 a.m.

676

THE MAPUTO SANITATION (MAPSAN) TRIAL: ASSESSING A SANITATION INTERVENTION'S IMPACT ON HELMINTHIASIS IN CHILDREN <5 YEARS OLD IN MAPUTO, MOZAMBIQUE

Trent Sumner¹, Jacqueline Knee¹, Rassul Nala², Joseph Brown¹

¹Georgia Institute of Technology, Atlanta, GA, United States, ²Ministério de Saúde, Maputo, Mozambique

9:15 a.m.

677

WATER, SANITATION AND HYGIENE (WASH) AND ENVIRONMENTAL RISK FACTORS FOR SOIL-TRANSMITTED HELMINTH INTENSITY OF INFECTION IN TIMOR-LESTE, USING REAL TIME PCR

Suzu J. Campbell¹, Susana Nery¹, Rebecca Wardell¹, Catherine D'Este¹, Darren Gray¹, James McCarthy², Rebecca Traub³, Ross Andrews⁴, Stacey Llewellyn², Andrew Vallely⁵, Gail Williams⁶, Archie Clements¹

¹Australian National University, Canberra, ACT, Australia, ²QIMR Berghofer Medical Research Institute, Brisbane, QLD, Australia, ³University of Melbourne, Melbourne, VIC, Australia, ⁴Charles Darwin University, Casuarina, NT, Australia, ⁵University of New South Wales, Sydney, NSW, Australia, ⁶University of Queensland, Brisbane, QLD, Australia

9:30 a.m.

678

WASH FOR WORMS: END-POINT RESULTS FROM A CLUSTER RANDOMIZED CONTROLLED TRIAL OF THE IMPACT OF A COMMUNITY-BASED INTEGRATED WASH AND DEWORMING PROGRAM ON SOIL-TRANSMITTED HELMINTH INFECTIONS

Susana Vaz Nery¹, James S. McCarthy², Rebecca Traub³, Edmund Weking⁴, Darren Gray¹, Ross Andrews⁵, Andrew Vallely⁶, Gail Williams⁷, Archie Clements¹

¹Australian National University, Canberra, Australia, ²QIMR Berghofer Medical Research Institute, Brisbane, Australia, ³University of Melbourne, Melbourne, Australia, ⁴WaterAid, Australia, Dili, Timor-Leste, ⁵Charles Darwin University, Darwin, Australia, ⁶University of New South Wales, Sydney, Australia, ⁷University of Queensland, Brisbane, Australia

Symposium 58

Molecular Basis of Severe Malarial Anemia (SMA): Bridging the Gap between Findings in Human Studies, Pathogenic Mechanisms in Non-Human Primates, and Mathematical Modeling

Marriott - Marquis D

Tuesday, November 15, 8 a.m. - 9:45 a.m.

Severe anemia is the most common complication of malaria that accounts for more than 50% of the cases defined as severe. Although severe malaria has traditionally been associated with *Plasmodium falciparum* infections, clinical and epidemiological data demonstrate that *P. vivax* infections can also result in severe disease. The overall goal of the symposium is to bring together an interdisciplinary group of experts on SMA to bridge perspectives ranging from expertise in the basic and clinical sciences through mathematical modeling of the disease. The largest global burden of SMA occurs in children less than five years of age residing in holoendemic areas of *P. falciparum* transmission. The molecular pathways that mediate susceptibility to SMA in pediatric populations will be discussed by the first speaker. Importantly, non-human primate (NHP) models can be utilized to investigate pathogenic mechanisms that are difficult to discern in human-based studies. Two simian malaria parasites, *P. cynomolgi* and *P. coatneyi*, can be utilized in rhesus macaques to investigate the pathogenic mechanisms underlying the clinical outcomes reported in humans infected with *P. vivax* and *P. falciparum*, respectively. Such studies are currently being conducted by the Malaria Host-Pathogen Interaction Center (MaHPIC), a large, system biology consortium studying the complexity of malaria infections in longitudinal investigations of NHP models. The clinical and immunological outcomes occurring in rhesus that are experimentally infected with *P. cynomolgi* or *P. coatneyi*, will be compared and contrasted by the second presenter to highlight both the unique and common features of the experimental models with human disease. The next presenter will discuss the development of a computational model designed to quantify the number of erythrocytes both produced and destroyed during the course of experimental infections in NHPs. The mathematical model will highlight the critical role that "bystander destruction" plays in the pathogenesis of SMA. The following speaker will present a mechanistic basis for the substantial removal of uninfected RBCs that occur during malarial infections. Specifically, the role of auto-antibodies against phosphatidylserine will be discussed in the context of results

collected through a combination of approaches. The final speaker will discuss the clinical profile of *P. vivax* malarial anemia in a unique epidemiological setting of South America. Taken together, the collection of presentations will illustrate the relevance of utilizing high-throughput technologies and mathematical modeling to advance our understanding of the complex host-pathogen interactions in malaria aimed at the development of novel intervention measures and effective adjunctive therapies.

CHAIR

Alberto Moreno

Emory University, Atlanta, GA, United States

Douglas Perkins

University of New Mexico, Albuquerque, NM, United States

8 a.m.

UNCOVERING MOLECULAR PATHWAYS FOR PEDIATRIC MALARIAL ANEMIA PATHOGENESIS

Douglas Perkins

University of New Mexico, Albuquerque, NM, United States

8:20 a.m.

NHP MODELS TO UNRAVEL MECHANISMS OF MALARIAL ANEMIA AND OTHER ADVERSE CLINICAL OUTCOMES

Chet Joyner

Emory University, Atlanta, GA, United States

8:40 a.m.

A MATHEMATICAL MODEL TO CHARACTERIZE THE REMOVAL OF RBCS IN A NHP MODEL OF MALARIA

Luis Fonseca

Georgia Institute of Technology, Atlanta, GA, United States

9 a.m.

ANTI-PHOSPHATIDYL SERINE AUTOANTIBODIES IN MALARIAL ANEMIA

Ana Rodriguez

New York University School of Medicine, New York, NY, United States

9:20 a.m.

GAPS IN THE KNOWLEDGE ABOUT ANEMIA RELATED TO *P. VIVAX* INFECTION: AN AMAZONIAN PERSPECTIVE

Marcus Lacerda

Fiocruz Amazônia/Tropical Medicine Foundation Dr. Heitor Vieira Dourado, Manaus, Amazonas, Brazil

Scientific Session 59

Bacteriology: Trachoma

Marriott - Room M103/M104/M105

Tuesday, November 15, 8 a.m. - 9:45 a.m.

CHAIR

Kelly Fletcher

Emory University, Rollins School of Public Health, Atlanta, GA, United States

Amy Pinsent

Monash University, Melbourne, Australia

8 a.m.

679

THE NEW WORLD HEALTH ORGANIZATION APPROACH TO SURVEILLANCE FOR TRACHOMA, EXPERIENCE IN NEPAL AND ADDED BENEFIT OF ANTIBODY PREVALENCE TO *CHLAMYDIA TRACHOMATIS* PGP3 PROTEIN: NESTS STUDY

Andrea I. Zambrano¹, Beatriz E. Muñoz¹, Shekhar Sharma², Sailesh Mishra²,

Laura Dize³, Katherine Crowley⁴, Lisa Rotondo⁴, Sheila K. West¹

¹Johns Hopkins University, Baltimore, MD, United States, ²Nepal Netra Jyoti Sangh,

Kathmandu, Nepal, ³International Chlamydia Laboratory, Baltimore, MD, United

States, ⁴RTI International, Washington, DC, United States

8:15 a.m.

680

SERO-SURVEILLANCE IS AN INFORMATIVE INDICATOR OF TRACHOMA TRANSMISSION INTENSITY

Amy Pinsent¹, Michael T. White², Manoj Gambhir¹, Diana L. Martin³

¹Monash University, Melbourne, Australia, ²Imperial College London, London, United

Kingdom, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m.

681

INFLUENCE OF INDIVIDUAL AND ENVIRONMENTAL FACTORS ON THE PREVALENCE OF TRACHOMA IN THE HEALTH DISTRICT OF MOKOLO AFTER 3 YEARS OF MASS TREATMENT WITH ZITHROMAX AND TETRACYCLINE

Assumpta Lucienne Bella¹, Emilienne Epée², Armelle Ngomba³, Godefroy Koki⁴,
Fabrice Nembot Djouma⁵, Georges Nko'o Ayissi², Julie Akame⁶, Patrick Mbia⁶,
Henri MOUNGUI⁶, Yaobi Zhang⁷

¹National Programme for the Prevention of Blindness, Ministry of Public Health,

Yaoundé, Cameroon, ²National NTD Coordination Unit, Ministry of Public Health,

Yaoundé, Cameroon, ³Department of Public Health, Faculty of Medicine and

Pharmaceutical Sciences, University of Douala, Douala, Cameroon, ⁴Faculty of

Medicine and Biomedical Sciences, University of Yaoundé, Yaoundé, Cameroon,

⁵Department of Epidemiology, University of Dschang, Dschang, Cameroon, ⁶Helen

Keller International, Yaoundé, Cameroon, ⁷Helen Keller International, Regional Office

for Africa, Dakar, Senegal

8:45 a.m.

682

A SPATIAL ANALYSIS OF ENVIRONMENTAL FACTORS AND TRACHOMATOUS-INFLAMMATION FOLLICULAR AMONG CHILDREN 1-9 YEARS IN SOUTH GONDAR, ETHIOPIA

Kelly Fletcher¹, Aisha Stewart², Mulat Zerihun³, Demelash Gessesse³, Berhanu Melaku³, Tekola Endeshaw³, Eshetu Sata³, Melsew Chanyalew⁴, Birhan Gaudie⁴, Zerihun Tadesse³, Kelly Callahan², Scott Nash²

¹Emory University, Rollins School of Public Health, Atlanta, GA, United States, ²The

Carter Center Atlanta, Atlanta, GA, United States, ³The Carter Center Ethiopia, Addis

Ababa, Ethiopia, ⁴Amhara Regional Health Bureau, Bahir Dar, Ethiopia

9 a.m.

683

USE OF MULTIPLE STRATEGIES TO MOBILIZE TRACHOMATOUS TRICHIASIS CASES FOR SURGERY IN 4 DISTRICTS OF KATSINA STATE, NIGERIA

Shamsudeen Yahaya¹, Aliyu Mohammed², Olufunto Adewusi², Moses Odenyi²,
Nicholas Olobio³, Yaobi Zhang⁴

¹Ministry of Health, Katsina, Nigeria, ²Helen Keller International, Abuja, Nigeria,

³Federal Ministry of Health, Abuja, Nigeria, ⁴Helen Keller International, Regional

Office for Africa, Dakar, Senegal

9:15 a.m.

684

CHLAMYDIA TRACHOMATIS INFECTION IN AMHARA, ETHIOPIA 2011-2015

Scott D. Nash¹, Aisha E. Stewart¹, Mulat Zerihun², Demelash Gessesse², Berhanu Melaku², Tekola Endeshaw², Eshetu Sata², Zerihun Tadessee², Melsew Chanyalew³, Birhan Gaudie³, Ambahun Chernet², Jeanne Moncada⁴, Thomas M. Lietman⁵, Paul M. Emerson⁶, Jonathan D. King⁷, E. Kelly Callahan¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center-Ethiopia, Addis Ababa, Ethiopia, ³Amhara Regional Health Bureau, BahirDar City, Ethiopia, ⁴University of California San Francisco, San Francisco, CA, United States, ⁵Francis I Proctor Foundation, San Francisco, CA, United States, ⁶International Trachoma Initiative, Atlanta, GA, United States, ⁷World Health Organization, Geneva, Switzerland

9:30 a.m.

685

TRACHOMA IMPACT SURVEYS IN MAINLAND TANZANIA: LESSONS LEARNED FROM IMPLEMENTATION OF THE SAFE STRATEGY

Jeremiah M. Ngondi¹, George Kabona², Mathias Kamugisha³, Edward Kirumbi², Maria Chikawe², Andreas Nshala², Boniphace, Idindili⁴, Delali Bonuedi⁵, Kathryn Crowley⁵, Lisa Rotondo⁵, Upendo J. Mwingira²

¹RTI International, Dar Es Salaam, United Republic of Tanzania, ²Neglected Tropical Disease Control Program/MoHCDCG, Dar Es Salaam, United Republic of Tanzania, ³National Institute for Medical Research, Tanga, United Republic of Tanzania, ⁴IMA World Health, Dar es Salaam, United Republic of Tanzania, ⁵RTI International, Washington, DC, United States

Symposium 60

ASTMH Committee on Global Health (ACGH) Symposium I: Building a Successful Career in Global Health - Global Health Leaders from Around the Globe Share Their Experiences

Marriott - Atrium A

Tuesday, November 15, 8 a.m. - 9:45 a.m.

Global health is filled with ambitious students, trainees, researchers and clinicians from across the globe. Given lack of funding and commitment to global health activities and research in some areas, early career individuals often struggle to get their careers off the ground. This can be particularly true in low- and middle-income countries. This session, organized by the ASTMH Committee on Global Health (ACGH), brings together global experts from around the world to discuss some of their pearls of wisdom on how to succeed in global health. Representatives from both academia and governmental/NGO entities will speak on their career experiences. These same experts will lead small group sessions in ACGH Symposium II where trainees and others will have the unique opportunity to interact with them and receive practical advice. ACGH Symposium I features the ACGH business meeting, and everyone is encouraged to stay, participate and get involved with ACGH.

CHAIR

Juliette Morgan

Centers for Disease Control and Prevention, Tblisi, Georgia

Jessica Fairley

Emory University School of Medicine, Atlanta, GA, United States

Christina Polyak

U.S. Military HIV Research Program, Bethesda, MD, United States

8 a.m.

SKILLS AND STRATEGIES TO SUCCEED IN GLOBAL HEALTH IN LOW- AND MIDDLE-INCOME COUNTRIES

Eusebio Macete

Centro de Investigação em saúde de Manhica, Manhica, Mozambique

8:25 a.m.

SKILLS AND STRATEGIES TO SUCCEED IN GLOBAL HEALTH IN THE UNITED STATES

Parminder Suchdev

Emory University School of Medicine, Atlanta, GA, United States

8:50 a.m.

SKILLS AND STRATEGIES TO SUCCEED IN GLOBAL HEALTH IN LOW- AND MIDDLE-INCOME COUNTRIES

9:15 a.m.

ACGH ANNUAL BUSINESS MEETING

Juliette Morgan

Centers for Disease Control and Prevention South Caucasus, Tbilisi, Georgia

9:45 a.m.

NETWORKING AND SOCIAL TIME

Scientific Session 61

Clinical Tropical Medicine II

Marriott - Atrium B

Tuesday, November 15, 8 a.m. - 9:45 a.m.

CHAIR

John Gawoski

Lahey Hospital and Medical Center, Burlington, MA, United States

Patricia C. Henwood

Brigham and Women's Hospital, Boston, MA, United States

8 a.m.

686

COMPARISON OF EPIDEMIOLOGY, TRANSMISSION DYNAMICS AND CLINICAL PRESENTATIONS OF GENITAL AND SKIN ULCERATIONS CAUSED BY *HAEMOPHILUS DUCREYI*: EXPERIENCE FROM HYPER-ENDEMIC AREAS IN AFRICA AND PACIFIC ISLANDS

Tun Ye, Cheng Y. Chen, Allan Pillay, Ronald C. Ballard

Centers for Disease Control and Prevention, Atlanta, GA, United States

8:15 a.m.

687

DIFFERENCES IN THE CLINICAL AND LABORATORY FEATURES OF ONCHOCERCIASIS IN ENDEMIC AND NONENDEMIC POPULATIONS REFLECT IMMUNE-MEDIATED PROCESSES

Adrienne J. Showler, Thomas Nutman

National Institutes of Health, Bethesda, MD, United States

8:30 a.m.

688

DIAGNOSIS OF LOW-INTENSITY *SCHISTOSOMA* INFECTION IN A NON-ENDEMIC SETTING USING THE ULTRASENSITIVE LATERAL FLOW TEST FOR DETECTION OF SCHISTOSOME CIRCULATING ANODIC ANTIGEN (CAA)

Lisette van Lieshout, Rebecca Van Grootveld, Claudia De Dood, Jutte De Vries,

Leo G. Visser, Darius Soonawala, Paul Corstjens, Govert J. Van Dam

Leiden University Medical Center (LUMC), Leiden, Netherlands

8:45 a.m.

689

FIELD-TESTING OF A COST-EFFECTIVE MOBILE-PHONE BASED MICROSCOPE FOR SCREENING OF *SCHISTOSOMA HAEMATOBIIUM*

Isaac I. Bogoch¹, Hatice Koydemir², Derek Tseng², Richard K.D. Ephraim³, Evans Duah³, Joseph Tee⁴, Jason R. Andrews⁵, Aydogan Ozcan²

¹Toronto General Hospital, Toronto, ON, Canada, ²University of California Los Angeles, Los Angeles, CA, United States, ³University of Cape Coast, Cape Coast, Ghana, ⁴Volta River Authority, Accra, Ghana, ⁵Stanford University, Palo Alto, CA, United States

9 a.m.

690

THE EMERGENCE AND EPIDEMIOLOGY OF ENDEMIC (FLEA-BORNE) TYPHUS IN TEXAS, 2003-2013

Kristy O. Murray¹, Nicole Evert², Bonny Mayes², Eric Fonken², Timothy Erickson¹, Melissa N. Garcia¹, Tom Sidwa²

¹Baylor College of Medicine and Texas Children's Hospital, Houston, TX, United States, ²Texas Department of State Health Services, Austin, TX, United States

9:15 a.m.

691

ZIKA VIRUS DISEASE AMONG TRAVELERS RETURNING FROM THE AMERICAS BETWEEN JANUARY 2013 AND FEBRUARY 2016: A GEOSENTINEL ANALYSIS

Davidson H. Hamer¹, Kira Barbre², Susan Anderson³, Elizabeth D. Barnett⁴, Andrea Boggild⁵, Emmanuel Bottieau⁶, Gary Brunette⁷, Eric Caumes⁸, Marty Cetron⁹, Lin H. Chen⁹, Gilles Eperon¹⁰, Philippe Gautret¹¹, Abraham Goorhuis¹², Martin P. Grobusch¹², Stefan Hagmann¹³, Noreen Hynes¹⁴, Phyllis Kozarsky¹⁵, Sanne Jespersen¹⁶, Michael Libman¹⁷, Rogelio Lopez-Velez¹⁸, Denis Malvy¹⁹, Frank Mockenhaupt²⁰, Israel Molina²¹, Cecilia Perret²², Camilla Rothe²³, Patricia Schlagenhauff²⁴, Eli Schwartz²⁵, Perry Van Genderen²⁶, Annelies Wilder-Smith²⁷, Doug Esposito⁷

¹Center for Global Health and Development, Boston University, Boston, MA, United States, ²Task Force for Global Health, Decatur, GA, United States, ³Travel Medicine and Emergency/Urgent Care - Palo Alto Medical Foundation, Palo Alto, CA, United States, ⁴Maxwell Finland Laboratory for Infectious Diseases - Boston Medical Center, Boston, MA, United States, ⁵Centre for Travel and Tropical Medicine - Toronto General Hospital, Toronto, ON, Canada, ⁶Institute of Tropical Medicine, Antwerp, Belgium, ⁷Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁸Service des Maladies Infectieuses et Tropicales - Hôpital Pitié-Salpêtrière, Paris, France, ⁹Travel Medicine Center - Mt. Auburn Hospital, Cambridge, MD, United States, ¹⁰Travel and Tropical Medicine - Division of Tropical and Humanitarian Medicine - Geneva University Hospitals, Geneva, Switzerland, ¹¹Infectious and Tropical Diseases Unit - Hôpital Nord, Marseille, France, ¹²Center for Tropical and Travel Medicine - University of Amsterdam, Amsterdam, Netherlands, ¹³Division of Pediatric Infectious Diseases - Bronx-Lebanon Hospital Center, Bronx, NY, United States, ¹⁴Johns Hopkins University School of Medicine - Geographic Medicine Center - Division of Infectious Diseases, Baltimore, MD, United States, ¹⁵TravelWell, Atlanta, GA, United States, ¹⁶Department of Infectious Disease - Aarhus University Hospital, Aarhus, Denmark, ¹⁷McGill University Centre for Tropical Diseases - Montreal General Hospital, Montreal, QC, Canada, ¹⁸Unidad de Medicina Tropical - Servicio de Enfermedades Infecciosas - Hospital Ramon y Cajal, Madrid, Spain, ¹⁹Santé-Voyages et Médecine tropicale - Niveau -1, Hôpital Saint-André, Bordeaux, France, ²⁰Institute of Tropical Medicine and International Health - Charité - Universitätsmedizin Berlin, Berlin, Germany, ²¹Anexos 6ª Planta. Hospital General Vall d'Hebron, Barcel

9:30 a.m.

692

OUTCOMES OF PREGNANT PATIENTS PRESENTING TO EBOLA TREATMENT UNITS IN SIERRA LEONE AND LIBERIA: A RETROSPECTIVE COHORT STUDY

Patricia Henwood¹, Lisa Babell¹, Reshma Roshania², Michaela Mallow², Adam Levine³

¹Brigham and Women's Hospital/Harvard Medical School, Boston, MA, United States, ²International Medical Corps, Los Angeles, CA, United States, ³Warren Alpert Medical School of Brown University, Providence, RI, United States

Symposium 62

American Committee of Medical Entomology (ACME) Symposium I: Annual Business Meeting, Awards and Hoogstraal Medal Presentations and Networking Reception

Marriott - Room A601

Tuesday, November 15, 8 a.m. - 9:45 a.m.

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 and by the Hoogstraal medal recipient. The objective of both ACME symposia is to highlight the next generation of medical entomologists. Related to this theme, the session will include the 2016 SC Johnson (SCJ) Innovation Award. The session will also feature a plenary talk on the state of the art in urban mosquito control to contain Zika virus and conclude with an informal reception to foster conversations between trainees and professionals in academia, industry, government and military.

CHAIR

Gonzalo M. Vazquez Prokopec
Emory University, Atlanta, GA, United States

Lytic Bartholomay
University of Wisconsin Madison, Madison, WI, United States

8 a.m.

ACME ANNUAL BUSINESS MEETING AND AWARDS PRESENTATION

Lytic C. Bartholomay
University of Wisconsin Madison, Madison, WI, United States

8:15 a.m.

STATE OF THE ART IN URBAN *AE. AEGYPTI* CONTROL FOR ZIKA EMERGENCY RESPONSE

Scott Ritchie
James Cook University, Cairns, Australia

8:45 a.m.

NETWORKING AND SOCIAL TIME

Symposium 63

Schistosomiasis Control with a View Toward Elimination

Marriott - Room A602

Tuesday, November 15, 8 a.m. - 9:45 a.m.

This symposium reports the results of several broad-based operational research projects initiated by SCORE, the Schistosomiasis Consortium for Operational Research and Evaluation. Speakers will relate their new findings on: i) the final outcomes of five-year long randomized trials of school- and community-based mass drug administration for *S. mansoni* in Kenya; ii) the performance of point-of-care antigen detection diagnostics for rapid community screening in follow up of mass treatment campaigns in Burundi; iii) the influential performance factors in a *S. haematobium* elimination trial in Zanzibar; and iv) the detection and evaluation of 'hot spot' villages that have persistently high prevalence of *Schistosoma* infection despite

Tuesday
November 15

their reaching target coverage levels during MDA campaigns, along with an assessment of the likely impact of hot spots on chances for regional elimination.

CHAIR

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

Daniel G. Colley

University of Georgia, Athens, GA, United States

8 a.m.

OUTCOMES OF FIVE-YEAR LONG RANDOMIZED TRIALS OF SCHOOL- AND COMMUNITY-BASED MASS DRUG ADMINISTRATION FOR *S. MANSONI* IN KENYA

Susan P. Montgomery

Centers for Disease Control and Prevention, Atlanta, GA, United States

8:25 a.m.

THE PERFORMANCE OF POINT-OF-CARE ANTIGEN DETECTION DIAGNOSTICS FOR RAPID COMMUNITY SCREENING IN FOLLOW-UP OF MASS TREATMENT CAMPAIGNS IN BURUNDI

Michelle N. Clements

Schistosomiasis Control Initiative, Imperial College, London, United Kingdom

8:50 a.m.

UROGENITAL SCHISTOSOMIASIS ELIMINATION IN ZANZIBAR: PROGRESS AND CHALLENGES OF AN INTEGRATED MULTIDISCIPLINARY PROGRAM

Stefanie Knopp

Swiss Tropical and Public Health Institute, Basel, Switzerland

9:15 a.m.

DETECTION AND EVALUATION OF 'HOT SPOT' VILLAGES DURING MDA AND WHAT THEY MAY MEAN FOR ELIMINATION STRATEGIES

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

Symposium 64

Where Will the Next Malaria Medicines Come From?

Marriott - Room A703/A704

Tuesday, November 15, 8 a.m. - 9:45 a.m.

Despite substantial scientific progress over the past decade, new, affordable and safe malaria medicines are urgently required to overcome increasing resistance against artemisinin based combination treatments, treat vulnerable populations, interrupt the parasite life cycle by blocking transmission to the vectors, prevent infection and target malaria species that transiently remain dormant in the liver. Based on an estimate of the probability of success it has been calculated that, on average, 18 candidate molecules will be needed for every new blood-stage antimalarial launched. The existing preclinical, Phase I and Phase II portfolio contains less than 15 new molecules targeting blood-stage malaria. In addition, there are no non 8-aminoquinoline anti-relapse scaffolds in the pipeline and molecules with potential use as transmission blocking or chemopreventative medicines still need to be confirmed in human clinical studies. These and other factors including drug resistance and safety profiles sufficiently robust for use in vulnerable patient populations such

as children and pregnant women underline the need for continual replenishment of the pipeline. This symposium will critically evaluate the potential of the existing drug discovery paradigms, successfully used to build the current discovery/translational portfolio, to continue to fill the pipeline of new medicines. Lessons can be learned from previous screening campaigns and the knowledge should be used to increase the likelihood of discovering new chemical series with potent antimalarial activity. Furthermore, the identification of new high quality, drug-like, chemical series is dependent on the quality of the compounds tested. Malaria drug discovery projects cannot afford the luxury of testing compounds with inherent developmental challenges based on either a lack of structural novelty or chemical groups associated with poor pharmacokinetics or safety. With this in mind, researchers have developed exacting compound selection criteria that they can share with the wider community for improving the diversity and property profile of screening libraries. Finally, following over five years successful phenotypic screening, a renaissance in target based screening is creating new and exciting opportunities in antimalarial drugs discovery. This is especially important given that an enrichment of phenotypic screening hits that tend to target relatively few mechanisms of action has been observed. The symposium aims to have a broad appeal to both the academic and industrial communities.

CHAIR

James Duffy

Medicines for Malaria Venture, Geneva, Switzerland

Elizabeth Winzeler

University of California San Diego, San Diego, CA, United States

8 a.m.

THE PIPELINE FOR NEW MALARIA MEDICINES: THE GOOD AND THE BAD NEWS

James Duffy

Medicines for Malaria Venture, Geneva, Switzerland

8:20 a.m.

WHAT CAN BE LEARNED FROM THE PHENOTYPIC SCREENING OF OVER 6 MILLION COMPOUNDS?

Jim Brown

GlaxoSmithKline, Collegeville, PA, United States

8:40 a.m.

SCREENING NEW COMPOUNDS: WHAT AND WHY?

Paul Wyatt

University of Dundee, Dundee, United Kingdom

9 a.m.

TARGET-BASED SCREENING FOR MALARIA

Aled Edwards

Structural Genomics Consortium (SGC), Toronto, ON, Canada

Symposium 65

If You Neglect It, It Will Grow: Addressing Fungal Infections in Advanced HIV Care

Marriott - Room A706/A707

Tuesday, November 15, 8 a.m. - 9:45 a.m.

Despite marked increases in ART availability and HIV testing, a significant proportion of individuals continue to present to care with advanced HIV. These patients often require complicated clinical management and are at a much higher risk for life-threatening opportunistic infections (OIs). Of these OIs, invasive fungal infections are responsible for up to 50% of all AIDS-related deaths. Although recent technological advances have made the detection and treatment of these AIDS-related mycoses easier, these diseases largely remain underemphasized in HIV programs worldwide, resulting in inadequate health systems planning and missed opportunities to save lives. This session seeks to inform HIV providers, researchers and policymakers on the current state of AIDS-related mycoses, exploring new tools available for preventing fungal deaths and highlighting areas where further research is needed.

CHAIR

Tom Chiller

Centers for Disease Control and Prevention, Atlanta, GA, United States

David Boulware

University of Minnesota, Minneapolis, MN, United States

8 a.m.

CRYPTO SCREENING AND TREATMENT: TAKING THE HEADACHE OUT OF HIV CARE

Greg Greene

Centers for Disease Control and Prevention, Atlanta, GA, United States

8:20 a.m.

CURRENT DIAGNOSTIC PRACTICES FOR HISTOPLASMOSIS IN THE AMERICAS AND CARIBBEAN

Diego H. Caceres

Centers for Disease Control and Prevention, Atlanta, GA, United States

8:40 a.m.

TALAROMYCOSIS (FORMERLY PENICILLIOSIS) - A NEGLECTED MYCOSIS IN TROPICAL ASIA

Thuy Le

Oxford University, Ho Chi Minh City, Vietnam

9 a.m.

HIV-ASSOCIATED PCP AND EMMONSIOSIS: RARE BUT STILL THERE

Nelesh Govender

National Institute for Communicable Diseases, Johannesburg, South Africa

Exhibit Hall Open

Marriott - International Hall

Tuesday, November 15, 9:30 a.m. - 10:30 a.m.

Coffee Break

Marriott - International Hall

Tuesday, November 15, 9:45 a.m. - 10:15 a.m.

Sponsored by **Sanofi Pasteur** CONTRIBUTOR

Poster Session B Set-Up

Hilton - Grand Ballroom and Grand Salon

Tuesday, November 15, 9:45 a.m. - 10:15 a.m.

TropStop Office Hours

Marriott - Atrium Loft

Tuesday, November 15, 10 a.m. - 11 a.m.

Meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer questions you may have.

PRESENTERS

Philip J. Rosenthal, *Editor-in-Chief, AJTMH*

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

Cathi Siegel, *Managing Editor, AJTMH*

AJTMH, Cleveland, OH, United States

Poster Session B Viewing

Hilton - Grand Ballroom and Grand Salon

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

Symposium 66

Strategies to Control Hepatitis E Virus, an Emerging Global Pathogen

Marriott - Imperial A

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

Globally, Hepatitis E Virus (HEV) is a leading cause of acute, hepatitis in adults. However, 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. As a result, many basic questions regarding the pathogenesis, immunology and epidemiology of HEV infection remain unanswered. Recently, increased recognition of autochthonous Hepatitis E (HE) in the United States and Europe, and the development of a highly efficacious vaccine have focused greater attention on this otherwise neglected pathogen. Despite a paucity of cases in developed countries, antibodies to HEV were recently found in at least 21% of the general U.S. population. In addition to cases associated with travel to highly-endemic low-income countries, reports of autochthonous HE in industrialized countries have steadily increased during the last decade, including persistent HEV infections in transplant recipients and other immune-compromised individuals. In developing countries, HEV is usually transmitted fecal-orally, often through a contaminated water supply. Many large epidemics have been attributed to HEV throughout Asia and Africa, starting with a 29,000-case-epidemic in New Delhi, India in 1955. Since then, over 30 epidemics of HEV have been reported from India alone with similar outbreaks throughout Asia. The hallmark of HE in these areas is a greater

disease severity in pregnant women. While the case fatality rate in men and non-pregnant women is 1-2%, that among pregnant women is about 30%. Children show low rates of infection and disease, despite likely environmental exposure. A variety of methods have been proposed to prevent HEV transmission, including water treatment, improved hygiene and sanitation, increased food safety, and vaccination. In 2010, a recombinant, subunit HEV vaccine from China reported 100.0% (95% CI, 72.1 to 100.0) efficacy against disease. Although the vaccine has not been tested specifically in pregnant women, pregnant women who were inadvertently vaccinated in the above trial showed no adverse effects. A large trial of the HEV vaccine is underway in women of childbearing age in Bangladesh, to determine the efficacy of the vaccine in preventing hepatitis E during pregnancy. However, the vaccine is not available for use outside of China and has not yet been prequalified by the WHO. Therefore, the people who need the vaccine the most cannot access it.

CHAIR

Alain B. Labrique

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Brittany Kmush

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:15 a.m.

FOOD-BORNE AND BLOOD TRANSFUSION TRANSMISSION OF HEV AND CHRONIC AND EXTRA-HEPATIC HEV

Kenrad Nelson

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

10:35 a.m.

HEPATITIS E: EPIDEMIOLOGY AND CLINICAL FEATURES OF WATER BORNE-OUTBREAKS IN ASIA AND AFRICA

Rakesh Aggarwal

Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India

10:55 a.m.

HEPATITIS E VACCINE STUDIES IN BANGLADESH

K. Zaman

International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

11:15 a.m.

HEPATITIS E VACCINES: CURRENT STATUS AND POSSIBLE PATH FORWARD

Laura Digilio

International Vaccine Institute, Seoul, Republic of Korea

Symposium 67

Perspectives on the Global Burden of Diarrhea and Refined Strategies for Quantification

Marriott - Imperial B

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

Diarrhea remains the second leading infectious cause of death among children under-five despite dramatic reductions over the last decade. Improved understanding of the pathogen-specific burden of severe episodes is warranted to inform strategic allocation of limited resources to research, development and delivery of the interventions with the highest probability of impact on residual diarrheal mortality. In recent years, novel quantitative

molecular diagnostics have transformed our understanding of the etiologic fraction of diarrhea attributable to various enteropathogens among young children in high burden settings. In addition, questions remain on the regional and country-level impact of rotavirus vaccination introduction on the pathogen-specific burden of diarrheal disease. It is thus important to reflect upon the implications of emerging data on the shifting etiology of childhood diarrhea globally. As mortality declines, it is also essential that research and policy highlight enteric and diarrheal diseases as a significant cause of morbidity among both children and adults. Repeated bouts of diarrhea and the underlying condition of environmental enteric dysfunction lead to poor growth, cognitive deficits and reduced immune response to childhood vaccines. These effects are more pronounced when chronic infections occur early in life, especially during the critical period between birth and 24 months of age. The pathways by which enteric infections lead to ill health and development are complex and incompletely understood. Efforts should therefore be made to quantify these long-term sequelae in order to better inform estimation of the disability associated with diarrhea among young children. This symposium will present holistic perspectives on the burden of diarrhea in terms of shifting etiology by various quantification techniques and the associated long-term sequelae.

CHAIR

Laura Lamberti

Bill & Melinda Gates Foundation, Seattle, WA, United States

Ibrahim Khalil

Institute for Health Metrics and Evaluation, Seattle, WA, United States

10:15 a.m.

METHODOLOGY AND ESTIMATION FOR DIARRHEAL DISEASES IN THE GLOBAL BURDEN OF DISEASE STUDY

Chris Troeger

Institute for Health Metrics and Evaluation, Seattle, WA, United States

10:40 a.m.

LONG-TERM HEALTH CONSEQUENCES OF CHILDHOOD DIARRHEA: THE DAMAGING EFFECT ON MALNUTRITION, PHYSICAL GROWTH AND COGNITIVE DEVELOPMENT

Ibrahim Khalil

Institute for Health Metrics and Evaluation, Seattle, WA, United States

11 a.m.

UPDATING GLOBAL DIARRHEA BURDEN ESTIMATES USING MOLECULAR DIAGNOSTICS: WHAT WE HAVE LEARNED THUS FAR

James Platts-Mills

University of Virginia, Charlottesville, VA, United States

11:25 a.m.

STRATEGIES AND PERSPECTIVES ON QUANTIFYING THE GLOBAL BURDEN OF DIARRHEA

Laura Lamberti

Bill & Melinda Gates Foundation, Seattle, WA, United States

Symposium 68

Moving Toward a PfSPZ Malaria Vaccine for Protecting Travelers and Use in Elimination Campaigns

Marriott - Marquis A

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

The International *Plasmodium falciparum* (Pf) sporozoite (SPZ) vaccine consortium (I-PfSPZ-C), which includes more than 150 members from 35 organizations in 18 countries is moving forward to conduct studies that will lead to licensure of PfSPZ-based vaccines for prevention of Pf malaria in travelers, including military, and for use in mass vaccine administration (MVA) campaigns to halt transmission of Pf in endemic areas. Stage 2 clinical trials have begun or will soon begin in the United States, Germany, Tanzania, Kenya, Mali, Burkina Faso, Ghana, and Equatorial Guinea. The goal is to finalize immunization regimens that can be used in phase 3 clinical trials to support licensure for both indications. Based on data acquired in stage 1 clinical trials in the U.S., Germany, Mali, Tanzania, and Equatorial Guinea, it is likely that immunization regimens will be different for the two indications. However, all the current trials are focused on establishing tolerability safety, immunogenicity and durable protective efficacy against heterologous/heterogeneous Pf parasites in all age groups, using the least number of PfSPZ administered in the shortest period of time. PfSPZ Vaccine (radiation attenuated PfSPZ) and PfSPZ-CVac (infectious PfSPZ with an antimalarial) are being advanced in parallel, the latter requires less than 10% of the PfSPZ to induce comparable protection. In this symposium data will be presented on the safety, tolerability, and immunogenicity from trials in 6-12 month old infants, young and older children, adolescents, and adults in Tanzania, Mali, U.S. and Germany. Data will also be presented on the protective efficacy against controlled human malaria infection (CHMI) from studies of PfSPZ Vaccine and PfSPZ-CVac in adults in Tanzania, Mali, Germany and the United States. These studies include data on sustained protection against homologous CHMI at 14 months after the last dose of vaccine and against heterologous CHMI at 9 months after the last dose of vaccine. They also include 10- and 28-day immunization regimens, and use of novel anti-malarials in PfSPZ-CVac that kill all the parasites by the late liver stage, thereby preventing any risk of blood stage infection. The plans and timelines for transition to phase 3 clinical trials and product launch will be discussed.

CHAIR

Judith E. Epstein

Naval Medical Research Center, Silver Spring, MD, United States

Peter G. Kremsner

Institute of Tropical Medicine, Universitätsklinikum Tübingen, Tübingen, Germany

10:15 a.m.

PROTECTIVE EFFICACY OF TEN TO TWENTY EIGHT DAY IMMUNIZATION REGIMENS FOR PFSPZ VACCINE AND PFSPZ-CVAC

Benjamin Mordmueller

Institute of Tropical Medicine, Universitätsklinikum Tübingen, Tübingen, Germany

10:40 a.m.

NINE MONTH PROTECTION AGAINST HETEROLOGOUS CHMI BY A 3-DOSE REGIMEN OF PFSPZ VACCINE

Kirsten E. Lyke

University of Maryland at Baltimore, Baltimore, MD, United States

11:05 a.m.

ASSESSMENT OF PFSPZ VACCINE AGAINST CHMI IN ADULT MALIANS

Mahamadou Sissoko

University of Bamako, Bamako, Mali

11:30 a.m.

SAFETY AND IMMUNOGENICITY OF PFSPZ VACCINE IN TANZANIAN INFANTS, YOUNG CHILDREN, ADOLESCENTS AND ADULTS, AND EFFICACY AGAINST CHMI IN ADULTS

Said Jongo

Ifakara Health Institute, Dar es salaam, United Republic of Tanzania

Symposium 69

Ivermectin to Reduce Malaria Parasite Transmission: Clinical Trials, Models and Regulatory Pathways to Accelerate Implementation

Marriott - Marquis B

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

Novel vector control tools are urgently needed to aid malaria elimination efforts worldwide. Although insecticide treated bednets and indoor residual spraying have dramatically reduced malaria transmission burden, it has become clear that these measures alone cannot thwart all transmission due to vectors that feed outside the home or outside the period of time that persons are protected by bed nets. Ivermectin, an anthelmintic drug widely taken in malaria endemic regions, has been shown to reduce the survivorship of *Anopheles* vectors taking bloodmeals containing the drug. Ivermectin mass drug administrations (MDAs) in West Africa reduced wild *Anopheles gambiae* survivorship and the proportion of vectors with *Plasmodium falciparum*. Ivermectin MDA is a promising new tool as it targets vectors at the point of blood feeding, regardless of *Anopheles* temporal or spatial blood feeding behaviors. Thus, ivermectin MDA has the potential to work in a diverse range of ecological settings and should be evaluated in multiple malaria transmission settings throughout the world. Here we present results from three clinical trials being conducted in Burkina Faso, Kenya and Thailand to assess the potential effectiveness of ivermectin for malaria parasite transmission suppression. Each trial assesses different drug regimens and critical *Anopheles* vectors found worldwide. The field MDA trial in Burkina Faso is the first to assess the impact of repeated ivermectin (200 µg/kg) MDAs on both mosquito and human *Plasmodium* transmission outcomes. The clinical trial in Kenya is the first to assess the safety, tolerability, pharmacokinetic interaction and mosquito-lethal efficacy of three daily doses of ivermectin (300 or 600 µg/kg/day) in conjunction with dihydroartemisinin-piperaquine against *An. gambiae*. The clinical trial in Thailand is the first to assess the safety, tolerability, pharmacokinetic interaction and mosquito-lethal efficacy of single-dose ivermectin (400 µg/kg) in conjunction with dihydroartemisinin-piperaquine and primaquine

against *An.dirus* and *An. minimus*. As the use of antimalarial MDA has been increasing, it is important to evaluate the safety of ivermectin with these antimalarial drugs as their simultaneous deployment could have dramatic impact on malaria incidence. Some of these trial results have been incorporated into robust malaria transmission models to better understand the most appropriate use of ivermectin MDA in a malaria elimination context. Finally, the symposium will discuss some of the regulatory and policy issues surrounding the use of ivermectin MDA for malaria parasite transmission control.

CHAIR

Kevin C. Kobylinski

Armed Forces Institute of Medical Sciences, Bangkok, Thailand

Carlos Chaccour

IS Global, Barcelona, Spain

10:15 a.m.

RESULTS FROM RIMDAMAL, A PILOT RANDOMIZED CLUSTER-DESIGN TRIAL IN BURKINA FASO, DESIGNED TO ASSESS THE SAFETY AND EFFICACY OF REPEAT IVERMECTIN MASS DRUG ADMINISTRATIONS TO CONTROL MALARIA AND NTDS

Brian D. Foy

Colorado State University, Fort Collins, CO, United States

10:35 a.m.

EFFICACY AND SAFETY OF HIGH-DOSE IVERMECTIN FOR REDUCING MALARIA TRANSMISSION: A DOSE FINDING STUDY (IVERMAL STUDY, KENYA)

Menno Smit

Liverpool School of Tropical Medicine, based at KEMRI/Centers for Disease Control and Prevention, Kisumu, Kenya

10:55 a.m.

SAFETY AND MOSQUITO-LETHAL EFFICACY OF IVERMECTIN, DIHYDROARTEMISININ-PIPERAQUINE AND PRIMAQUINE: IVERMECTIN FOR MALARIA IN SOUTHEAST ASIA (IMSEA STUDY, THAILAND)

Podjane Jittamala

Mahidol University, Bangkok, Thailand

Kevin C. Kobylinski

Armed Forces Research, Institute of Medical Sciences, Bangkok, Thailand

11:35 a.m.

MODELLING THE IMPACT OF IVERMECTIN ON MALARIA TRANSMISSION

Hannah Slater

Imperial College London, London, United Kingdom

Symposium 70

Building Clinical Research Capacity in Resource-Limited Countries: Lessons from Sub-Saharan Africa and South Asia

Marriott - Marquis C

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

This symposium will begin with an introduction explaining why clinical research and the training of host-country investigators are essential health priorities, followed by presentations related to accessing and leveraging data from NIAID-supported clinical trials in the areas of HIV, parasitic diseases and TB; the implementation and value of adaptive clinical trial designs and examples of clinical trials in sub-Saharan Africa which require long-term treatment and follow-up for HIV and TB.

CHAIR

Donald J. Krogstad

Tulane University, New Orleans, LA, United States

Tina Mendelson

Deloitte Consulting LLC, Arlington, VA, United States

10:15 a.m.

ACCESSING DATA FROM NIAID-SUPPORTED CLINICAL TRIALS USING TRANSSMART

Sheikh Usman

Deloitte Consulting LLP, Arlington, VA, United States

10:35 a.m.

ADAPTIVE CLINICAL TRIAL DESIGNS

Joseph Sgherza

Clinical Research Management, Inc., Hinckley, OH, United States

10:55 a.m.

USE OF ADAPTIVE CLINICAL TRIAL DESIGNS TO DEVELOP CURATIVE TREATMENT STRATEGIES FOR HIV IN MALI

Robert L. Murphy

Northwestern University, Chicago, IL, United States

11:15 a.m.

IMPROVING THE DIAGNOSIS OF TB: LED MICROSCOPY AND PCR IN RWANDA AND LIQUID-BASED CULTURE IN MALI

Yanis Ben Amor

Earth Institute, Columbia University, New York, NY, United States

Symposium 71

Key Elements for Improving Management of Pneumonia in Children in Resource-Poor Settings

Marriott - Marquis D

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

Pneumonia still remains the number one killer of children in the world and therefore addressing pneumonia is a key component in achieving the target for Sustainable Development Goal 3.2 is 'by 2030, end preventable deaths of newborns and children under 5 years of age'. The objective of this symposium is to share learning and enhance global understanding of how to improve pneumonia case management in resource-poor settings from a number of innovative studies recently conducted. Malaria Consortium has recently conducted a large-scale evaluation of new pneumonia diagnostic tools in sub-Saharan Africa and Southeast Asia that

could improve the responsiveness of the health system in detecting pneumonia at community level. UNICEF Supply Division is running a project called ARIDA – focused on supporting the development and introduction at scale of improved diagnostic devices for pneumonia. The Bill & Melinda Gates Foundation is supporting a number of initiatives to improve the management of pneumonia in resource-poor settings and one is with the Federal Ministry of Health in Ethiopia. The symposium will outline the experiences from these organizations and provide learnings gained through their activities. Firstly, a short overview will be given on the broader environmental and structural implications driving the need for improvements in the management of pneumonia in these settings. The significant research findings from the Malaria Consortium pneumonia diagnostics project will be presented. UNICEF will highlight their work done on modelling the financial impact of better diagnostic tools. The public health and programmatic implications for the improved management of pneumonia in a specific setting, Ethiopia, will then be discussed. The session will end with a moderated discussion which will facilitate a structured interaction between the presenters and the audience.

CHAIR

Kevin N. Baker
Malaria Consortium, London, United Kingdom

10:15 a.m. PROGRESS TOWARDS UNIVERSAL ACCESS TO PNEUMONIA TREATMENT

Ebenezer Sheshi Baba
Malaria Consortium, Kampala, Uganda

10:25 a.m. FINDINGS FROM THE EVALUATION OF ACCURACY AND ACCEPTABILITY OF PNEUMONIA DIAGNOSTIC TOOLS FOR COMMUNITY HEALTH WORKERS IN LOW- AND MIDDLE- INCOME COUNTRIES

Kevin Baker
Malaria Consortium, London, United Kingdom

10:45 a.m. ARIDA PROJECT – RESULTS OF THE FINANCIAL MODELLING DETAILING THE BENEFITS OF THE INTRODUCTION OF IMPROVED PNEUMONIA DIAGNOSTICS TOOLS

Kristoffer Gandrup-Marino
UNICEF, Copenhagen, Denmark

11:05 a.m. HEALTH SYSTEMS STRENGTHENING FOR BETTER PNEUMONIA CASE MANAGEMENT – AN ETHIOPIA CASE STUDY

Hillena Kebede
Federal Ministry of Health, Ethiopia, Addis Ababa, Ethiopia

11:30 a.m. MODERATED DISCUSSION

Madeleine Marasciulo
Malaria Consortium, Raleigh, NC, United States

Scientific Session 72

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoal Diseases - Biology and Pathogenesis

Marriott - Room M103/M104/M105

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

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Charlie Jennison
Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia

Gabriel W. Rangel
Harvard University, Boston, MA, United States

10:15 a.m.

1931

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2016. SEE THE PROGRAM UPDATE FOR SPEAKER INFORMATION.

10:30 a.m.

1932

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2016. SEE THE PROGRAM UPDATE FOR SPEAKER INFORMATION.

10:45 a.m.

693

DECIPHERING THE BIOLOGY OF THE DORMANT MALARIA PARASITE, *PLASMODIUM VIVAX*, VIA AN *IN VITRO* PLATFORM

Nil Gural
Massachusetts Institute of Technology, Cambridge, MA, United States

11 a.m.

694

CELL TRAVERSAL BY MALARIA PARASITES: *PLASMODIUM CELTOS* BINDS AND DISRUPTS PLASMA MEMBRANES FROM THE CYTOPLASMIC FACE TO ENABLE THE EXIT OF PARASITES FROM CELLS DURING HOST AND VECTOR CELL TRAVERSAL

John R. Jimah, Nichole D. Salinas, Monica Sala-Rabanal, Nathaniel G. Jones, L. David Sibley, Colin Nichols, Paul Schlesinger, Niraj H. Tolia
Washington University School of Medicine, St. Louis, MO, United States

(ACMCIP Abstract)

11:15 a.m.

695

MECHANISM OF FETAL GROWTH RESTRICTION IN PLACENTA MALARIA

Kris Genelyn Dimasuay¹, Fredrick Rosario², Jocelyn Glazier³, James Beeson⁴, Stephen Rogerson¹, Thomas Jansson², Philippe Boeuf⁴

¹University of Melbourne at the Peter Doherty Institute for Infection and Immunity, Melbourne, Australia, ²University of Colorado Anschutz Medical Campus, Denver, CO, United States, ³University of Manchester, St. Mary's Hospital, Manchester, United Kingdom, ⁴Burnet Institute, Melbourne, Australia

(ACMCIP Abstract)

11:30 a.m.

696

THROMBOSPONDIN RELATED SPOROZOITE PROTEIN IS IMPORTANT FOR THE ESTABLISHMENT OF *P. FALCIPARUM* LIVER STAGE INFECTION

Charlie Jennison¹, Matthew T. O'Neill¹, Jennifer S. Armistead¹, Annie S. Yang¹, Sash Lopaticki¹, Norman M. Kneteman², Justin A. Boddey¹

¹Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia,

²University of Alberta, Edmonton, AB, Canada

(ACMCIP Abstract)

11:45 a.m.

697

A SYSTEMATIC APPROACH TO THE OPTIMIZATION OF *PLASMODIUM VIVAX* IN VITRO CULTURE

Gabriel Rangel¹, Martha A. Clark¹, Kathryn Shaw-Saliba¹, Usheer Kanjee¹, Cael Lim¹, Marcelo U. Ferreira², Anjali Mascarenhas³, Laura Chery³, Edwin Gomes⁴, Pradipsinh K. Rathod³, Manoj T. Duraisingh¹

¹Harvard University, Boston, MA, United States, ²University of São Paulo, São Paulo, Brazil, ³University of Washington, Seattle, WA, United States, ⁴Goa Medical College, Goa, India

Symposium 73

**ASTMH Committee on Global Health (ACGH)
Symposium II: Building a Successful Career in
Global Health - An Interactive Session with Global
Health Experts**

Marriott - Atrium A

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

Finding one's niche, collaborating with others, finding a job and promoting one's skills are all areas that can pose obstacles at the beginning and throughout one's global health career. How does one translate the skills learned in the classroom into a fulfilling vocation? This symposium, sponsored by the ASTMH Committee on Global Health (ACGH), aims to address some of these challenges by delivering participants practical tools and skills essential to global health career development. This symposium will follow the ACGH Symposium I where international global health experts share their experience. In this exciting interactive session, those same experts, as well as others, will meet with attendees in small groups to share practical experience and skills. Topics will include mentorship, scientific writing and other career building skills. Over the past two years, the small discussion group format featured in this session has drawn significant attendance. The small group, interactive environment has made this an innovative environment for attendees to begin developing important career-building skills. Participants will have a unique opportunity to focus on individual skills in interactive small-group sessions led by global health experts from the U.S. and overseas. By giving early career individuals the tools to develop their careers, the ACGH aims to foster the growth of the global health field. By imparting practical wisdom in this unique setting, ACGH continues to foster the enthusiasm and drive that brought them to global health in the first place.

CHAIR

Jessica K. Fairley

Emory University School of Medicine, Atlanta, GA, United States

Ramin Asgary

New York University School of Medicine, New York, NY, United States

Jonathan Ripp

Mount Sinai Global Health Center, New York, NY, United States

10:15 a.m.

INTRODUCTION

Jessica K. Fairley

Emory University School of Medicine, Atlanta, GA, United States

10:25 a.m.

FIRST SMALL GROUP DISCUSSION SESSION (SEE LIST OF SMALL GROUP DISCUSSIONS BELOW)

11:05 a.m.

SECOND SMALL GROUP DISCUSSION SESSION (SEE LIST OF SMALL GROUP DISCUSSIONS BELOW)

11:45 a.m.

WRAP-UP

Jessica K. Fairley

Emory University School of Medicine, Atlanta, GA, United States

SMALL GROUP DISCUSSIONS

(Attendees will have two opportunities to meet with discussion leaders)

SKILLS AND STRATEGIES TO SUCCEED IN WRITING, PRESENTING AND PUBLISHING GLOBAL HEALTH-RELATED RESEARCH AT SCIENTIFIC FORUMS AND IN MEDICAL/ PUBLIC HEALTH JOURNALS

Ramin Asgary

New York University School of Medicine, New York, NY, United States

STRATEGIES TO SUCCEED IN GLOBAL HEALTH: PERSPECTIVES FROM MALI

Ousmane Koita

University of Bamako, Bamako, Mali

STRATEGIES TO SUCCEED IN GLOBAL HEALTH: PERSPECTIVES FROM MOZAMBIQUE

Eusbeio Macete

Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique

SKILLS AND STRATEGIES TO SUCCEED IN GLOBAL HEALTH IN THE UNITED STATES

Jonathan Ripp

Mount Sinai School of Medicine, New York, NY, United States

Symposium 74

Recent Advances in the Development of New Treatments for Chronic Chagas Disease

Marriott - Atrium B

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

Chagas disease ranks among the world's most neglected diseases. After decades of limited progress, the last few years have witnessed a significant change in the landscape of research and drug development in Chagas disease. New information is available on the two registered compounds for Chagas disease, benznidazole and nifurtimox. New developments have arisen in the field of biological markers for Chagas disease. This symposium will provide an overview of new clinical studies on benznidazole and nifurtimox, including the assessment of these compounds in new treatment regimens and new populations; present new data on biological markers of therapeutic response, as well as review the status of review the pipeline of new drug candidates and new population pharmacokinetics and pharmacodynamics data from key experts in the field. The first presentation will provide an overview of the preclinical landscape and results of experimental studies on new compounds for Chagas disease. The second presentation will review new data on biological markers of therapeutic response, taking into consideration data from studies with long-term follow-up. The third presentation will provide information on recent clinical trials on pharmacokinetics of nifurtimox for Chagas disease and review the status of the new Phase III study on pediatric Chagas disease. The fourth and last presentation will review new data on benznidazole and review the status of clinical trials on new treatment regimens.

CHAIR

Isabela Ribeiro

Drugs for Neglected Diseases initiative, Geneva, Switzerland

Sergio Sosa Estani

Instituto Nacional de Parasitología "Dr. Mario Fátala Chaben", Buenos Aires, Argentina

10:15 a.m.

REVIEW OF RECENT PRECLINICAL INFORMATION AND PHARMACOKINETIC-PHARMACODYNAMIC DATA IN CHAGAS DISEASE

Isabela Ribeiro

Drugs for Neglected Diseases initiative, Geneva, Switzerland

10:35 a.m.

BIOLOGICAL MARKERS OF THERAPEUTIC RESPONSE IN CHAGAS DISEASE - NEW DEVELOPMENTS

Igor Almeida

University of Texas El Paso, El Paso, United States

10:55 a.m.

NEW TREATMENT REGIMENS OF BENZNIDAZOLE - PRECLINICAL RESULTS AND OVERVIEW OF PLANNED STUDIES

Joaquim Gascon

IS Global Barcelona Institute for Global Health, Barcelona, Spain

11:15 a.m.

NIFURTIMOX FOR CHAGAS DISEASE – RECENT CLINICAL STUDIES AND PERSPECTIVES

Jaime Altcheh

Hospital de Niños Ricardo Gutierrez, Buenos Aires, Argentina

Symposium 75

American Committee of Medical Entomology (ACME) Symposium II: Applied Medical Entomology: Bridging Field and Laboratory Studies

Marriott - Room A601

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

This symposium will showcase recent findings from senior ACME members and trainees (graduate students and postdocs) who are working in the laboratories of members of the American Committee of Medical Entomology, or are themselves ACME members. The main emphasis of this year's symposium is in applied medical entomology. Symposium participants will be invited based on a targeted approach to represent a diversity of *taxa* of medically relevant arthropods (to include ticks, fleas, mosquitoes, sand flies, black flies, lice, kissing bugs and bedbugs), of research approaches (to include applied and basic research, and emphasize burgeoning approaches/technologies), geographical regions and institutions, and of demographics (to balance representation of age, gender, race, ethnicity and training levels).

CHAIR

Gonzalo Vazquez-Prokopec

Emory University, Atlanta, GA, United States

Lyric Bartholomay

University of Wisconsin Madison, Madison, WI, United States

10:15 a.m.

CASE STUDY PERSPECTIVES ON THE BIODIVERSITY OF THE MOSQUITO FAUNA OF BRAZIL

Vinicios Ferreira-de-freitas

University of Wisconsin Madison, Madison, WI, United States

10:30 a.m.

BACTERIAL COMPOSITION OF LARVAL BREEDING SITES OF AFRICAN *Aedes Aegypti* AND ITS EFFECT ON VECTORIAL CAPACITY

Laura Dickson

Pasteur Institute, Paris, France

10:45 a.m.

SPATIAL HETEROGENEITY IN INSECTICIDE RESISTANCE PATTERNS IN *Ae. Aegypti*

Marissa Grossman

Emory University, Atlanta, United States

11 a.m.

INTERROGATING INDOOR AND OUTDOOR MOSQUITO POPULATIONS AND TRANSMISSION OF EMERGING ARBOVIRUSES ALONG THE TEXAS-MEXICO BORDER

Gabriel Hamer

Texas A&M University, College Station, United States

Symposium 76

How Can We Use the Tools of Genomics and Evolution to Study and Control Malaria?

Marriott - Room A602

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

This symposium presents four experts, from a diverse set of national and international backgrounds, to discuss how the tools of genomics and evolution can be used to study and control malaria. A common misconception is that sequencing *Plasmodium* or *Anopheles* genomes is a purely academic exercise that has little application to the field. In fact, malaria research can leverage ongoing advances in genomics and computational biology in order to link the parasite's extensive genetic diversity with highly relevant phenotypes. The significant amount of malaria genomics data now being produced can be mined and translated into information that can support elimination efforts. In particular, genomic approaches allow us to better understand the evolution of phenotypes such as resistance to antimalarial drugs in the parasite, or insecticide resistance in the vector. Furthermore, population genomics facilitates the identification of proteins that potentially could be targeted by vaccines, or developed as novel diagnostic tools. Finally, genomics also allow for marker discovery that can be used in the context of epidemiological surveillance systems. As a key component, this symposium will highlight the importance of making genomic data available, and in a manner that is linked to properly curated metadata. The session organizers conclude that evolutionary genomics can propel innovation in the malaria research community by facilitating linkage of the parasite's and vector's genetic and phenotypic diversities.

CHAIR

Jane Carlton

New York University, New York, NY, United States

Ananias Escalante

Temple University, Philadelphia, PA, United States

10:15 a.m.

POPULATION GENOMICS REVEALS SIGNATURES OF GLOBAL DISPERSAL AND DRUG RESISTANCE IN *PLASMODIUM VIVAX*

Jane Carlton

New York University, New York, NY, United States

10:40 a.m.

EVOLUTIONARY GENETICS OF *PLASMODIUM VIVAX* IN SOUTH AMERICA

Ananias Escalante

Temple University, Philadelphia, PA, United States

11:05 a.m.

PLASMODIUM FALCIPARUM GENOMICS FOR THE IDENTIFICATION OF DRUG RESISTANCE MARKERS IN SOUTHEAST ASIA

Liwang Cui

The Pennsylvania State University, State College, PA, United States

11:30 a.m.

THE *ANOPHELES GAMBIAE* 1000 GENOMES PROJECT: REVOLUTIONIZING OUR UNDERSTANDING OF INSECTICIDE RESISTANCE

Martin Donnelly

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Scientific Session 77

Intestinal and Tissue Helminths: Soil-Transmitted Helminths – Epidemiology and Control

Marriott - Room A703/A704

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

CHAIR

Elise Michelle O'Connell

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Francesca Tamarozzi

University of Pavia, Pavia, Italy

10:15 a.m.

698

MOLECULAR TECHNIQUES IDENTIFY *ANCYLOSTOMA CEYLANICUM* AND *NECATOR AMERICANUS* AS THE MAJOR HOOKWORM PATHOGENS AMONG MYANMAR REFUGEES PRE-RESETTLEMENT AND DEFINE THEIR DIFFERENTIAL RESPONSE TO ANTHELMINTIC THERAPY

Elise M. O'Connell¹, Tarissa Mitchell², Georgiette Oduro-Boateng¹, Marina Papaikovou³, Nils Pilotte³, Deborah Lee², Steven Williams³, Michelle Weinberg², William Stauffer⁴, Thomas B. Nutman¹

¹National Institutes of Health, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ²Immigrant, Refugee and Migrant Health Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Department of Biological Sciences, Smith College, Northampton, MA, United States, ⁴Department of Infectious Diseases, University of Minnesota, Minneapolis, MN, United States

(ACMCIP Abstract)

10:30 a.m.

699

MULTI-PARALLEL QUANTITATIVE REAL-TIME PCR BASED DIAGNOSTICS AS THE NEW GOLD STANDARD FOR SOIL TRANSMITTED HELMINTHS

Marina Papaikovou¹, Nils Pilotte², Steven A. Williams¹, Paola Vargas³, Reynaldo Nicolás Caro³, Rubén Cimino³, Alejandro Krolewiecki⁴, Rojelio Mejía⁵

¹Smith College, Northampton, MA, United States, ²University of Massachusetts, Amherst, MA, United States, ³Instituto de Investigaciones en Enfermedades Tropicales, Universidad Nacional de Salta, Orán, Argentina, ⁴Instituto de Patología Experimental/CONICET, Salta, Argentina, ⁵Laboratory of Clinical Parasitology and Diagnostics, National School of Tropical Medicine Baylor College of Medicine, Houston, TX, United States

10:45 a.m.

700

DIAGNOSIS OF *STRONGYLOIDES STERCORALIS* FROM FILTERED URINE RESIDUE BY DETECTING CELL-FREE DNA

Nilanjan Lodh¹, Reynaldo Caro², Shterna Sofer³, Alan Scott³, Alejandro Krolewiecki², Clive Shiff³

¹Marquette University, Milwaukee, WI, United States, ²Universidad Nacional de Salta, Orán, Argentina, ³Johns Hopkins University, Baltimore, MD, United States

11 a.m.

701

MATERNAL POSTPARTUM DEWORMING AS A MEANS OF IMPROVING INFANT GROWTH AND MORBIDITY IN AREAS ENDEMIC FOR SOIL-TRANSMITTED HELMINTHIASIS

Layla S. Mofid¹, Martín Casapia², Eder Aguilar³, Hermán Silva³, Antonio Montresor⁴, Elham Rahme⁵, William D. Fraser⁶, Grace S. Marquis⁷, Jozef Vercruyse⁸, Lindsay Allen⁹, Brittany Blouin¹, Hugo Razuri⁶, Lidsky Pezo², Theresa W. Gyorkos¹

¹Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montreal, QC, Canada, ²Asociación Civil Selva Amazónica, Iquitos, Peru, ³Hospital Iquitos "César Garayar García", Iquitos, Peru, ⁴Department of Control of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland, ⁵Research Institute of the McGill University Health Centre, Division of Clinical Epidemiology, Montreal, QC, Canada, ⁶Centre de recherche et Département d'obstétrique et de gynécologie, Université de Sherbrooke, Sherbrooke, QC, Canada, ⁷McGill University, School of Dietetics and Human Nutrition, Ste. Anne-de-Bellevue, QC, Canada, ⁸Department of Virology, Parasitology and Immunology, Faculty of Veterinary Medicine, Ghent University, Merelbeke, Belgium, ⁹United States Department of Agriculture, ARS Western Human Nutrition Research Center, University of California Davis, Davis, CA, United States

11:15 a.m.

702

STH CONTROL, ELIMINATION, AND DEVELOPMENT OF DRUG RESISTANCE: REPERCUSSIONS OF SYSTEMATIC NON-PARTICIPATION TO PREVENTIVE CHEMOTHERAPY

Luc E. Coffeng, Wilma A. Stolk, Roel Bakker, Sake J. de Vlas
Erasmus MC, University Medical Center, Rotterdam, Netherlands

11:30 a.m.

703

DIFFERENTIAL IMPACT OF MASS AND TARGETED DEWORMING CAMPAIGNS FOR SOIL-TRANSMITTED HELMINTH CONTROL IN CHILDREN: A SYSTEMATIC REVIEW AND META-ANALYSIS

Susana Vaz Nery, Archie C. Clements, Suhail A. Doi, Dongxu Wang, Suzy J. Campbell, Darren Gray, Naomi E. E. Clarke
Australian National University, Canberra, Australia

11:45 a.m.

704

RESULTS OF A COMBINED PUBLIC HEALTH INTERVENTION AGAINST *S. STERCORALIS* IN AN ARGENTINIAN ENDEMIC REGION MONITORED THROUGH NIE-ELISA

Paola Vargas¹, Adriana Echazú¹, Marisa Juárez¹, Pamela Cajal¹, Nicolas Caro¹, Julio Nasser², Alejandro Krolewiecki³, Rubén Cimino¹

¹Instituto de Investigaciones en Enfermedades Tropicales-Universidad Nacional de Salta, Salta, Argentina, ²Cátedra de Química Biológica-Universidad Nacional de Salta, Salta, Argentina, ³Consejo Nacional de Investigaciones Científicas y Técnicas, Buenos Aires, Argentina

Symposium 78

Update on Research and Control of Viral Diseases in Cuba

Marriott - Room A706/A707

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

The recent progressive normalization of relations between Cuba and the United States holds the promise of renewing the once-strong scientific collaborations between these two countries. At last year's annual meeting, ASTMH furthered this aim by bringing Cuban and American experts together in a ground-breaking symposium to discuss the many scientific advances coming from Cuba and what the future might bring if the two countries can rekindle their history of cooperation in science and global health.

This year, ASTMH renews and deepens the scientific exchange by presenting a symposium focused on advances in tropical virology, a field in which Cuba has and continues to be a historic "hotspot" and Cuban scientists leaders in research and control.

CHAIR

Maria G. Guzman

Center for Research, Diagnostic and Surveillance (CIDR), Instituto de Medicina Tropical "Pedro Kouri", Havana, Cuba

Daniel G. Bausch

World Health Organization, Geneva, Switzerland

10:15 a.m.

UPDATE ON RESEARCH AND CONTROL OF DENGUE AND OTHER ARTHROPOD-BORNE VIRAL DISEASES IN CUBA

Maria G. Guzman

Center for Research, Diagnostic and Surveillance (CIDR), Instituto de Medicina Tropical "Pedro Kouri", Havana, Cuba

10:40 a.m.

HIV-1 VIRAL VARIANTS CIRCULATING IN CUBA: IMPLICATIONS FOR DISEASE PROGRESSION

Vivian Kouri

Center for Research, Diagnostic and Surveillance (CIDR), Instituto de Medicina Tropical "Pedro Kouri", Havana, Cuba

11:05 a.m.

CUBA'S POLIO VACCINE INVESTIGATIONS

Sonia Resik

Center for Research, Diagnostic and Surveillance (CIDR), Instituto de Medicina Tropical "Pedro Kouri", Havana, Cuba

11:30 a.m.

UPDATE ON INFLUENZA AND OTHER RESPIRATORY VIRUSES IN CUBA

Betsy Acosta

Center for Research, Diagnostic and Surveillance (CIDR), Instituto de Medicina Tropical "Pedro Kouri", Havana, Cuba

Exhibit Hall Open and Light Lunch

Marriott - International Hall

Tuesday, November 15, Noon - 1:45 p.m.

Poster Session 79

Poster Session B: Presentations and Light Lunch

Hilton - Grand Ballroom and Grand Salon

Tuesday, November 15, Noon - 1:45 p.m.

Poster Session B Directory

Alphaviruses (Includes Chikungunya): #705 – 712

Flaviviridae – Dengue: #713 – 742

Flaviviridae – Other: #743 - 757

Viruses – Other: #758 – 771

Mosquitoes – Biochemistry and Molecular Biology: #772 – 775

Mosquitoes – Insecticide Resistance and Control: #776 – 787

Mosquitoes – Vector Biology-Epidemiology: #788 - 807

Global Health: #808 - 839

Malaria – Biology and Pathogenesis: #840 - 850

Malaria – Chemotherapy and Drug Resistance: #851 - 871

Malaria – Diagnosis: #872 - 888

Malaria – Elimination: #889 - 909

Malaria – Epidemiology: #910 - 933

Malaria – Genetics/Genomics: #934 - 948

Malaria – Immunology: #949 - 966

Malaria – Modeling: #967 - 980

Malaria – Other: #981 - 996

Malaria – Vaccines: #997 - 1014

Malaria/Mosquitoes – Field Prevention: #1015 - 1027

Bacteriology – Enteric Infections: #1028 – 1041

Bacteriology – Other Bacterial Infections: #1042 - 1059

Clinical Tropical Medicine: #1060 - 1086

Helminths – Nematodes – Filariasis (Epidemiology): #1087 - 1108

Helminths – Nematodes – Filariasis (Other): #1109 - 1120

Helminths – Nematodes – Intestinal Nematodes: #1121 - 1137

HIV and Tropical Co-Infections: #1138 - 1147

Kinetoplastida – Epidemiology (Including *Leishmania* and Trypanosomes): #1148 – 1164

Pneumonia, Respiratory Infections and Tuberculosis: #1165 - 1175

Trematodes – Schistosomiasis – Epidemiology, Diagnosis and Treatment: #1176 - 1187

Water, Sanitation, Hygiene and Environmental Health: #1188 - 1200

Alphaviruses (Includes Chikungunya)

705

COMPARISON OF ALPHAVIRUS AND FLAVIVIRUS PREVALENCE IN WESTERN KENYA

Elysse N. Grossi-Soyster¹, Elizabeth A. Cooke², Eric M. Fèvre³, A. Desiree LaBeaud¹

¹Stanford University School of Medicine, Stanford, CA, United States, ²International Livestock Research Institute, Nairobi, Kenya, ³Institute of Infection and Global Health, University of Liverpool, Neston, United Kingdom

706

SEROPREVALENCE OF FLAVIVIRUSES AND ALPHAVIRUSES IN CHILDREN IN COASTAL KENYA: A 2015 SNAPSHOT

Elysse Noel Grossi-Soyster¹, Francis Mutuku², Saidi Lipi³, Charles Ng'ang'a³, A. Desiree LaBeaud¹

¹Stanford University School of Medicine, Stanford, CA, United States, ²Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, ³Vector Borne Disease Control Unit, Msambweni, Kenya

707

CHIKUNGUNYA VIRUS INFECTION IS CAUSING ACUTE FEBRILE ILLNESS AMONG CHILDREN IN KENYA

Jimmy Hortion¹, David M. Vu², Elysse N. Grossi-Soyster², Victoria Okuta³, Zainab Jembe⁴, Priscillah Maina⁴, Philip Chebii⁴, Winnie A. Onyango³, Charles H. King⁵, Bryson A. Ndenga³, Francis M. Mutuku⁶, A. Desiree LaBeaud²

¹Ecole Normale Supérieure de Lyon, Lyon, France, ²Stanford University Department of Pediatrics, Stanford, CA, United States, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴Ministry of Health-Kenya, Msambweni, Kenya, ⁵Case Western Reserve University, Cleveland, OH, United States, ⁶Technical University of Mombasa, Mombasa, Kenya

708

IDENTIFICATION OF FACTORS ASSOCIATED WITH CHRONIC CHIKUNGUNYA DISEASE IN PATIENTS IN GRENADA, WEST INDIES

Claire J. Heath¹, Jason Lowther², Trevor P. Noël², Idis Mark-George², Derek B. Boothroyd¹, Calum N. MacPherson², A. Desiree LaBeaud¹

¹Stanford University, San Francisco, CA, United States, ²WINDREF, St. George's University, St. George's, Grenada

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SIMULATING CHIKUNGUNYA OUTBREAKS IN COLOMBIA USING AN AGENT-BASED MODEL

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VACCINES AGAINST EMERGING ALPHAVIRUSES

A. B. Silva, M. P. López-Deber, P. Reis, S. Thapa, S. Ghimire, S. Nallet, A. Michalec, A. Serra, D. T. Hickman, M. Pihlgren, J. G. Wettstein, A. Pfeifer, A. Muhs

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IMMUNE PROFILING AND NETWORK MODELING OF CHIKUNGUNYA INFECTION IN A HOSPITAL-BASED STUDY IN NICARAGUA

Daniela Michlmayr¹, Adeeb Rahman², Lionel Gresh³, Seunghee Kim-Schulze², Guajira P. Thomas⁴, Theodore Pak⁵, Federico Narvaez⁶, Andrew Kasarskis⁵, Steven M. Wolinsky⁴, Angel Balmaseda⁷, Miriam Merad⁸, Eva Harris¹

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ATYPICAL CHIKUNGUNYA PRESENTATION DURING THE 2014 EPIDEMIC IN VENEZUELA

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Flaviviridae - Dengue

PREDICTORS OF PLASMA LEAKAGE IN ADULT DENGUE PATIENTS

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EARLY SEASON INCIDENCE, SUSCEPTIBILITY, AND WEATHER PREDICTS ANNUAL DENGUE HEMORRHAGIC FEVER INCIDENCE IN THAILAND

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SOCIAL CONNECTIONS AND CONTEXT IN DENGUE TRANSMISSION

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ZIKA VIRUS INFECTION IN A COHORT STUDY TO ASSESS THE INCIDENCE OF DENGUE, STATE OF SÃO PAULO, BRAZIL, 2015, 2016

Gerusa M. Figueiredo¹, Expedito J. Luna¹, Maria Regina Cardoso², José E. Levi¹, Alvina C. Felix¹, Nathalia C. C. Souza¹, Ana C. Souza¹, Sérgio R. Campos R. Campos¹, Walter M. Figueiredo¹, Angela A. Costa¹, Claudio S. Pannuti¹

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INAPPARENT DENGUE VIRUS INFECTION INCIDENCE, SAO PAULO, BRAZIL, 2014-2015

Expedito J. Luna, Gerusa M. Figueiredo, Sergio R. Campos, Jose E. Levi, Walter M. Figueiredo, Angela A. Costa, Alvina C. Felix, Ana C. Souza, Nathalia C. Souza, Maria R. Cardoso, Claudio S. Pannuti

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DENGUE VIRAL INFECTION INDUCED CD95 EXPRESSIONS IN DIFFERENT B CELL SUBSETS

Nattawat Onlamoon, Ampaiwan Chuansumrit, Kulkanya Chokepchaibulkit, Kanchana Tangnaratchakit, Chonnamet Techasaensiri, Nopporn Apiwatanakul, Siyu Wang, Premrutai Thitilertdecha, Kovit Pattanapanyasat

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DENGUE DIVERSITY ACROSS SPATIAL AND TEMPORAL SCALES: LOCAL STRUCTURE AND THE IMPACT OF HOST POPULATION SIZE

Henrik Salje¹, Justin Lessler¹, Irina Maljkovic Berry², Melanie Melendrez², Siripen Kalanao³, Atchareeya A-Nuegoonpipat⁴, Sumalee Chanama⁴, Somchai Sangkijporn⁴, Ananda Nisalak⁵, Robert Gibbons⁵, Sopon Iamsirithaworn⁴, Louis Macareo⁵, In-Kyu Yoon⁶, Areerat Sangasang⁴, Richard Jarman², Derek Cummings⁷

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Aedes albopictus MIDGUT CELL LINE: A PRISTINE CELL LINE FOR IN VITRO STUDY OF ARBOVIRAL PATHOGENESIS

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A FULLY-HUMAN HYPERIMMUNE POLYCLONAL ANTIBODY PRODUCT FROM TRANSCHEMOSOMIC BOVINES TO TREAT DENGUE INFECTIONS

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CHARACTERIZATION OF CYD DENGUE VACCINE VIRUSES WITH HUMAN MONOCLONAL ANTIBODIES TARGETING KEY CONFORMATIONAL EPITOPES

Valérie Lecouturier¹, Catherine Berry¹, Aure Saulnier¹, Sophie Naville¹, Catherine Manin¹, Gopal Sapparapu², James E. Crowe², Florence Boudet¹, Bruno Guy¹

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PERIODICITY (LONG-TERM AND SHORT-TERM CYCLES) OF DENGUE IN VENEZUELA

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USE OF THE DENGUE HUMAN CHALLENGE MODEL TO CHARACTERIZE THE ROLE OF HETEROTYPIC ANTIBODY IN PROTECTION AGAINST DENGUE INFECTION

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LONGITUDINAL ANALYSIS OF B CELL RESPONSE TO INFECTION WITH A DENGUE-2 CHALLENGE VIRUS

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DENV PREEXISTING IMMUNITY EFFECT ON ZIKV INFECTION AND THE RELIABILITY OF DIAGNOSIS IN AN AREA WITH CO-CIRCULATION OF SEVERAL ARBOVIRUSES

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VECTOR GENOTYPE INFLUENCES DENGUE VIRUS INTRA-HOST GENETIC DIVERSITY IN MOSQUITOES

Sebastian Lequime, Albin Fontaine, Meriadeg Ar Gouilh, Isabelle Moltini-Conclois, **Louis Lambrechts**
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A CLOSER LOOK AT ADE AND OAS IN THE SECONDARY DENGUE PLASMA BLAST RESPONSE

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DISPLAY OF QUATERNARY EPITOPES RECOGNIZED BY DENGUE VIRUS NEUTRALIZING ANTIBODIES

Stefan Metz, Michael Miley, Jason Coffman, Shaomin Tian, Chris Luft, Joe DeSimone, Aravinda de Silva

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RAPID ACTIVE SEROPREVALENCE SURVEYS AS A TOOL TO MEASURE DENGUE VIRUS DISEASE BURDEN IN RESOURCE-LIMITED SETTINGS

Daniel Olson¹, Molly M. Lamb², Alma Zacarias³, Maria Renee Lopez⁴, Maria Alejandra Paniagua⁵, Gabriela Samayoa-Reyes⁶, Ricardo Zambrano⁷, Sergio Rodriguez⁷, Celia Cordon-Rosales⁴, Edwin J. Asturias¹

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NATURAL AND LABORATORY-DERIVED GENETIC VARIATION IN DENGUE VIRUS TYPE 2 AT ENVELOPE PROTEIN POSITIONS 202 AND 203 MODULATES ANTIGENIC AND IMMUNOGENIC PROPERTIES

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CO-INFECTION OF DENGUE VIRUS BY SEROTYPES 1 AND 2 IN A PATIENT FROM STUNG TRENG PROVINCE, CAMBODIA

Jamal Dejli¹, Catherine Berjohn¹, Vireak Heang¹, Agus Rachmat¹, Pichit Pin¹, Sophal Ouk¹, Chonthida Supaprom¹, Rithea Leang², Rekol Huy², Andrew Vaughn¹

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MAPPING HUMAN NEUTRALIZING ANTIBODY RESPONSES TO DENGUE VIRUS SEROTYPE 4

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DETERMINING THE EFFICACY OF LARVIVOROUS FISH, COMMUNITY ENGAGEMENT, AND A NOVEL SLOW RELEASE PYRIPROXYFEN FORMULATION SUMILARV® 2MR ON DENGUE VECTORS (AEDES AEGYPTI AND AEDES ALBOPICTUS) IN CAMBODIA: A CLUSTER RANDOMIZED TRIAL

John Hustedt¹, Dyna Doum¹, Vanney Keo¹, Ly Sokha², BunLeng Sam², Vibol Chan³, Neal Alexander⁴, John Bradley⁴, Didot B. Prasetyo⁵, Agus Rachmat⁵, Sergio Lopes¹, Muhammad Shafique⁶, Rithea Leang², Jeffrey Hii⁶

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*East Delhi Municipal Corporation, Delhi, India***736****CORRELATION OF CLINICAL DIAGNOSIS AND DENGUE ASSAYS IN CAMBODIA OVER SIX YEARS****Catherine M. Berjohn**¹, Agus Rachmat¹, Chenda Yi¹, Vireak Heang¹, Chonthida Supaprom¹, Bolin Chum¹, Sim Kheng², Sokhal Buth³, Andrew F. Vaughn¹
¹*U.S. Naval Medical Research Unit – 2, Phnom Penh, Cambodia*, ²*Communicable Disease Control Department, Phnom Penh, Cambodia*, ³*National Institute of Public Health, Phnom Penh, Cambodia***737****REGULATION OF PROTEIN TRANSLATION IN MOSQUITO CELLS INFECTED BY DENGUE 2 VIRUS****Wei-June Chen**, Jion-Nan Hou, Tien-Huang Chen, Ching-Yun Perng
*Chang Gung University, Tao-Yuan, Taiwan***738****RECENT SCIENTIFIC AND CLINICAL ADVANCES IN SANOFI PASTEUR'S DENGUE VACCINE PROGRAM****Nicholas Jackson**¹, Janice Moser², Antony Byers², Valerie Lecouturier³, Ernesto Luna², Laurent Chambonneau³, Bruno Guy¹, Fernando Noriega⁴
¹*Sanofi Pasteur, Lyon, France*, ²*Sanofi Pasteur Vaxdesign, Orlando, FL, United States*, ³*Sanofi Pasteur, Marcy-l'Étoile, France*, ⁴*Sanofi Pasteur, Swiftwater, PA, United States***739****IMMUNITY TO ZIKV, DENV AND CHIKV IN A NON-ENDEMIC HUMAN IMMUNE COHORT IN PORTLAND, OREGON****William Messer**, Adam Brady, Sarah Gabriel, Brian Booty, Claire Dorfman, Jules Weinstein
*Oregon Health & Sciences University, Portland, OR, United States***740****SPATIOTEMPORAL ANALYSES OF DENGUE HOSPITALIZATIONS CODED IN BRAZIL****Juliane Wunderlich**¹, **Wladimir J. Alonso**²
¹*McGill University, Montreal, QC, Canada*, ²*Division of International Epidemiology and Population Studies, Bethesda, MD, United States***741****HYPOXIA ENHANCES ANTIBODY-DEPENDENT DENGUE****Esther S. Gan**¹, Wei Fun Cheong², Kuan Rong Chan¹, Eugenia Ong³, Xiaoran Chai¹, Hwee Cheng Tan¹, Sujoy Ghosh¹, Markus R. Wenk², Eng Eong Ooi¹
¹*Duke-NUS Medical School, Singapore, Singapore*, ²*National University of Singapore, Singapore, Singapore*, ³*Experimental Therapeutic Centre, Singapore, Singapore***742****VIREMIA AT PRESENTATION IS ASSOCIATED WITH LONG-LIVED ANTIBODY RESPONSES TO DENGUE VIRUS****Jesse J. Waggoner**¹, Lionel Gresh², Alisha Mohamed-Hadley¹, Angel Balmaseda³, K. James Soda⁴, Janaki Abeynayake¹, Malaya K. Sahoo¹, Yuanyuan Liu¹, Guillermina Kuan⁵, Eva Harris⁶, Benjamin A. Pinsky¹
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*The Rockefeller University, New York, NY, United States***745****COMPREHENSIVE MUTAGENESIS OF HCV E1/E2 ENVELOPE TO EPI TOPE MAP ANTI-ENV ANTIBODIES AND FUNCTIONAL RESIDUES CRITICAL FOR HCV INFECTIVITY****Jennifer Pfaff**, Trevor Barnes, Edgar Davidson, **Benjamin J. Doranz**
*Integral Molecular, Inc., Philadelphia, PA, United States***746****ANALYZING THE IMMUNE RESPONSE TO ZIKA VIRUS: A REPORTER VIRUS PARTICLE (RVP) SYSTEM FOR SERUM AND ANTIBODY NEUTRALIZATION ASSAYS, AND A COMPREHENSIVE ALA-SCAN MUTATION LIBRARY OF ZIKV PRM/E TO EPI TOPE MAP ANTI-ZIKV ANTIBODIES****Chuck Whitbeck**¹, Anu Thomas¹, David Tucker¹, Trevor Barnes¹, James E. Crowe Jr.², **Edgar Davidson**¹, Benjamin J. Doranz¹
¹*Integral Molecular, Inc., Philadelphia, PA, United States*, ²*Departments of Pathology, Microbiology and Immunology, Vanderbilt University, Nashville, TN, United States***747****EVALUATION OF SELECTED REAL-TIME RT-PCR PROTOCOLS AIMING AT THE BEST POSSIBLE MOLECULAR DIAGNOSIS OF ZIKA VIRUS INFECTIONS****Flávia M. Moraes**, Danillo L. Esposito, Taline M. Klein, **Benedito A. Fonseca**
*School of Medicine of Ribeirão Preto, Ribeirão Preto, S.P., Brazil***748****WHOLE GENOME SEQUENCING AND PHYLOGENETIC ANALYSIS OF ZIKA VIRUS ISOLATED IN INDONESIA****Amin Soebandrio**¹, Frilasita Yudhaputri¹, Aditya Perkasa¹, Benediktus Yohan¹, Sotianingsih Haryanto², Ageng Wiyatno¹, Ungke Antonjaya³, Hidayat Trimarsanto¹, Jeremy P. Ledermann⁴, Ronald Rosenburg⁴, Ann M. Powers⁴, R. Tedjo Sasmono¹, Khin Saw Aye Myint¹
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November 15

749**CLINICAL CHARACTERIZATION OF ACUTE ZIKA PATIENTS IN BRAZIL, VENEZUELA, AND EL SALVADOR IN 2015/16**

Patricia Brasil¹, Ernesto T. Marques², Adriana Tami³, Ernesto Pleiteuss Sandoval⁴, Andrea Caprara⁵, Tereza Magalhaes², Guilherme Calvet¹, Sarah Bethencourt⁶, Maria G. Guzman⁷, Cameron P. Simmons⁸, Ana Bispo¹, Marli Tenorio Cordeiro², Bridget Wills⁸, Kerstin Rosenberger⁹, **Thomas Jaenisch**⁹

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750**DETECTION AND DIFFERENTIATION OF IGM RESPONSE TO RECENT EXPOSURE TO ZIKA AND OTHER VECTOR BORNE VIRUSES USING A MULTIPLEXED, BEAD BASED SEROLOGY ASSAY**

Christy Weiss, Michele M. Bush, Arturo Cowes, Diamela Nunez, Félix W. Santiago, Amy Altman

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751**MAPPING THE GLOBAL DISTRIBUTION OF YELLOW FEVER**

Freya Shearer

University of Oxford, Oxford, United Kingdom

752**ACUTE ENCEPHALITIS SYNDROME IN ASSAM, INDIA: IMPORTANCE OF JAPANESE ENCEPHALITIS IN THE ADULT POPULATION, 2014-2015**

Ravi Vasanthapuram¹, Lahari Saikia², Sanjeeb Kakati², Aditi Baruah², Pritikar Bowerah², BC Bhagabati³, Reeta Mani¹, Shafeeq Hameed¹, Vijayalakshmi Reddy¹, Anita Desai¹, Vijaykiran Reddy¹, Leena Inamdar⁴, Sharon Daves⁴, Kayla Laserson⁴, **Padmini Srikantiah**⁴

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753**HOSPITALIZATIONS BY HEPATITIS C BETWEEN 1998 AND 2013 IN BRAZIL: AN INTRIGUING AMAZONIAN TALE**

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754**DESIGN AND VALIDATION OF A RAPID ASSAY FOR ZIKA VIRUS IN BIOFLUIDS AND INSECT VECTORS**

Rushika Perera¹, Nunya Chotiwan¹, Connie D. Brewster², James Weger-Lucarelli¹, Claudia Rückert¹, Chilingh Nguyen¹, Selene M. Garcia Luna¹, Joseph R. Fauver¹, Meg Gray¹, William C. Black IV¹, Brian Foy¹, Rebekah C. Kading¹, Gregory D. Ebel¹, Sandra L. Quackenbush², Joel Rovnak²

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755**MAPPING GLOBAL SEASONAL SUITABILITY FOR ZIKA VIRUS TRANSMISSION**

Oliver J. Brady¹, Moritz U. Kraemer², Isaac I. Bogoch³, Matthew German³, Alexander Watts³, Simon I. Hay⁴, Kamran Khan³

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756**WORKING WITH ZIKA AND USUTU VIRUSES *IN VITRO***

Kelli Barr

University of Florida, Gainesville, FL, United States

757**PREDICTING INTENSITIES OF ZIKA INFECTION AND MICROCEPHALY USING TRANSMISSION INTENSITIES OF OTHER ARBOVIRUSES**

Isabel Rodríguez Barraquer¹, Henrik Salje¹, Justin Lessler¹, Derek A. Cummings²

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Viruses - Other

758**CORRELATION BETWEEN SABIN POLIOVIRUS SHEDDING AND SUBSEQUENT SEROCONVERSION IN INDIAN CHILDREN VACCINATED WITH MONOVALENT TYPE 3 ORAL POLIOVIRUS VACCINE (MOPV3)**

Sidhartha Giri¹, Jacob John¹, Asha Mary Abraham¹, Miren Iturriza-Gomara², Nicholas C Grassly³, Gagandeep Kang¹

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759**CHIKUNGUNYA, ZIKA, AND DENGUE IN CALI, COLOMBIA: PRELIMINARY RESULTS OF EPIDEMIOLOGICAL AND GEOSPATIAL ANALYSES**

Amy R. Krystosik

Kent State University, Kent, OH, United States

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THE IMPACT OF LOCAL DISTRIBUTORS ON THE QUALITY OF MEDICINES IN RESOURCE-LIMITED SETTINGS: FIELD-BASED RECOMMENDATIONS

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COMMUNITY EXPERIENCES WITH BEDNET DISTRIBUTION AND INDOOR RESIDUAL SPRAYING CAMPAIGNS FOR MALARIA PREVENTION IN RURAL GHANA: A QUALITATIVE INVESTIGATION

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PEPFAR 3.0: OPPORTUNITIES FOR ENHANCED NCD CARE WITH DIFFERENTIATED MODELS OF HIV SERVICE DELIVERY

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THE GLOBAL HEALTH SERVICE PARTNERSHIP: AN ACADEMIC-CLINICAL PARTNERSHIP TO BUILD CAPACITY IN NURSING AND MEDICINE IN SUB-SAHARAN AFRICA

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ANTIMICROBIAL ACTIVITIES OF SIX SELECTED MEDICINAL PLANTS AGAINST STAPHYLOCOCCUS AUREUS

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CREATING A HOLISTIC FRAMEWORK FOR UNDERSTANDING THE FULL IMPACT OF THE ZIKA VIRUS ON MOTHERS, INFANTS, HEALTH SYSTEMS AND SOCIETY

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USING AMR DATA IN DATA-RICH COUNTRIES IN COMBINATION WITH UNIVERSAL 'MEDIA' DATA TO MAP ANTIMICROBIAL TRENDS AND DRIVERS ACROSS DATA-POOR AREAS OF AFRICA

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IMPROVEMENT OF CHILD NUTRITIONAL STATUS IN THE DEMOCRATIC REPUBLIC OF CONGO OVER TIME: SERIAL CROSS-SECTIONAL ANALYSIS OF THE DEMOGRAPHIC AND HEALTH SURVEY

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827**CAN WE TARGET MOBILE POPULATIONS WITH AN INTEGRATED DISEASE CONTROL APPROACH? A QUALITATIVE STUDY ON RISK BEHAVIOR FOR MALARIA AND HIV ALONG THE THAI-CAMBODIA BORDER****Charlotte Gryseels¹**, Sambunny UK², Sokha Suon², Srun Set², Therese Delvaux¹, Dysoley Lek², Vichea Ouk³, Koen Peeters Grietens¹¹Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ²National Centre for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ³National Centre for HIV/AIDS, Dermatology and STD, Phnom Penh, Cambodia

828**BANGLADESH OBSERVED NATIONWIDE MEASLES-RUBELLA VACCINATION CAMPAIGN****Muhammad Shariful Islam***Expanded Programme on Immunization (EPI), Dhaka, Bangladesh*

829**MOTHER AND CHILD PAIRS DOUBLE BURDEN OF MALNUTRITION IN THE SAME HOUSEHOLD, IN BENGU PROVINCE, ANGOLA****Miguel Brito**, Ania Soares, Claudia Façonny*CISA - Health Research Centre of Angola, Caxito, Angola*

830**JOINING THE HALVES: A PRIVATE PUBLIC PARTNERSHIP TO MAKE ROUTINE HEALTH REPORTING ATTRACTIVE TO PRIVATE SECTOR PROVIDERS IN UGANDA****Tonny Kyagulanyi¹**, Ronald Sserufusa², Robert Mugerwa¹, Elizabeth Streat³¹Malaria Consortium Uganda, Kampala, Uganda, ²Wakiso District Local Government, Wakiso, Uganda, ³Malaria Consortium AfRO, Kampala, Uganda

831**IMPACT OF MEASLES MASS-VACCINATION CAMPAIGN AMONG THE CHILDREN UNDER FIVE YEARS OLD IN THE DEMOCRATIC REPUBLIC OF THE CONGO****Kamy K. Musene¹**, Cyrus S. Sinai¹, Reena H. Doshi¹, Nicole A. Hoff¹, Patrick K. Mukadi¹, Sue Gerber², Anne Rimoin²¹University of California Los Angeles-DRC Research Program, Kinshasa, Democratic Republic of the Congo, ²University of California Los Angeles, Los Angeles, CA, United States

832**SEVERE MATERNAL MORBIDITY AND ASSOCIATED FACTORS IN TWO LARGE HOSPITALS IN THE ASHANTI REGION, GHANA****Nana Y. Peprah***National Malaria Control, Ghana Health Service, Accra, Ghana*

833**FACTORS AFFECTING REPORTING RATES OF COMMUNITY VOLUNTEERS IN AN MHEALTH INTERVENTION REPORTING DATA THROUGH CELL PHONES****Sanford Cheelo¹**, Illenga Nhkata¹, Nadaizja Bollin², Oswell Katooka³, Abel Manangi³, Engervell Musonda³, Rabson Zimba¹, Anna M. Winters¹, Benjamin Winters¹, **David Larsen¹**¹Akros, Lusaka, Zambia, ²Syracuse University Department of Public Health, Syracuse, NY, United States, ³Ministry of Local Government and Housing, Lusaka, Zambia

834**IMPACT OF COMPUTERIZED PHYSICIAN ORDER ENTRY (CPOE) SYSTEM IN PREVENTING PRESCRIPTION ERRORS IN ADMITTED PEDIATRIC PATIENTS IN A DEVELOPING COUNTRY****Mian Khalid Masud¹**, Junaid Bhatti², Ramzan Tahir³, Akmal Laeeq¹¹Mayo Hospital, King Edward Medical University, Lahore, Pakistan, ²Sunnybrook Research Institute, Toronto, ON, Canada, ³University of Montreal Health Centre Research Centre, Montreal, QC, Canada

835**LINKING HOUSEHOLD AND POINT-OF-CARE DATA TO ESTIMATE COVERAGE OF APPROPRIATE MANAGEMENT OF CHILDHOOD ILLNESS IN SOUTHERN PROVINCE, ZAMBIA****Emily Carter¹**, Micky Ndhlovu², Emmy Nkhama², Melinda Munos¹, Joanne Katz³, Thomas P. Eisele⁴¹Institute for International Programs, Johns Hopkins School of Public Health, Baltimore, MD, United States, ²Chainama College of Health Sciences, Lusaka, Zambia, ³Johns Hopkins School of Public Health, Baltimore, MD, United States, ⁴Center for Applied Malaria Research and Evaluation, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

836**USING THE KEMRI-CDC HEALTH AND DEMOGRAPHIC SURVEILLANCE SYSTEM TO DEMONSTRATE THE CHANGING NEONATAL MORTALITY RATE BETWEEN 2003 AND 2012 IN RURAL WESTERN KENYA****David K. Obor¹**, Peter Otieno¹, Jennifer R. Verani², Frank O. Odhiambo¹, Kayla Laserson³, Daniel Feikin³¹Center for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ²Division of Global Health Protection, Centers for Disease Control and Prevention, Nairobi, Kenya, ³Centers for Disease Control and Prevention, Kisumu, Kenya

837**STUDENTS AS AGENTS OF CHANGE: EXPERIENCES FROM SUDAN IN UPDATING NATIONAL SCHOOL CURRICULA TO INCLUDE TRACHOMA MESSAGING****Angelia Sanders¹**, Zeinab Abdalla², Balgesa Elshafie³, Nabil Mikhail², E. Kelly Callahan¹¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Khartoum, Sudan, ³Sudan Federal Ministry of Health, Khartoum, Sudan

838**GENERATING AN ELECTRICITY ACCESS MAP ACROSS AFRICA****Ricardo Andrade-Pacheco¹**, David J. Savory¹, Alemayehu Midekisa¹, Peter W. Gething², Hugh J. Sturrock¹, Adam Bennett¹¹MEI, Global Health Group, University of California San Francisco, San Francisco, CA, United States, ²Big Data Institute, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom

839**VOTING FOR BETTER HEALTH IN DEPRIVED COMMUNITIES****Anna Quine¹**, **Gladys U. Obuzor²**, Nthusi Nthula³, Lilian Ndomoto⁴, Charlotte Tulinus⁵, Arthur Hibble⁶, Prit Chahal¹, Njeri Nyanja⁷, Sammy Barasa⁸¹Health Education East Midlands, Nottingham, United Kingdom, ²Health Education East of England, Brompton, United Kingdom, ³Moi University, Eldoret, Kenya, ⁴Nazareth Hospital, Nairobi, Kenya, ⁵The Research Unit for General Practice, University of Copenhagen, Copenhagen, Denmark, ⁶Anglia Ruskin University, Cambridge, United Kingdom, ⁷Kabarak University, Nakuru, Kenya, ⁸Presbyterian University of East Africa, Kikuyu, Kenya

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A MULTI-OMIC SYSTEMS BIOLOGY APPROACH TO IDENTIFYING HOST AND PARASITE FEATURES THAT CONFER RESILIENCE TO MALARIA INFECTION

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MOLECULAR DISSECTION OF THE *PLASMODIUM* SPOROZOITE SURFACE GAPDH FOR MALARIA LIVER INVASION

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PFEBA-175 MEDIATED ROSETTING ENHANCES GROWTH OF *PLASMODIUM FALCIPARUM* AND OVERCOMES INHIBITORY ANTIBODIES: IMPLICATIONS FOR SEVERE MALARIA

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PLASMODIUM VIVAX INFECTIONS AMONGST DUFFY-NEGATIVE INDIVIDUALS IN THE DEMOCRATIC REPUBLIC OF THE CONGO: POSSIBLE ACQUISITION FROM APES

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CEREBROSPINAL FLUID CYTOKINE AND CHEMOKINE LEVELS AND NEUROCOGNITIVE FUNCTION IN UGANDAN CHILDREN WITH CEREBRAL MALARIA

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A NOVEL FACS TECHNIQUE TO MEASURE AUTOPHAGY IN *PLASMODIUM FALCIPARUM*

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DEVELOPMENTAL CYCLE AND TISSUE SEQUESTRATION OF *P. VIVAX* TRANSMISSION STAGES IN THE NON-HUMAN PRIMATE MODEL

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BIOENERGETIC CHARACTERIZATION OF MUTANT *PLASMODIUM FALCIPARUM* STRAINS RESISTANT TO MITOCHONDRIAL INHIBITORS

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DEVELOPMENT OF A NOVEL MOUSE MODEL FOR PREGNANCY MAINTENANCE DURING MATERNAL MALARIA INFECTION

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INVESTIGATING THE ROLE OF ACS5 IN *P. FALCIPARUM* FATTY ACID METABOLISM

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METABOLIC CONVERSION OF CARBOXY-PRIMAQUINE, A MAJOR METABOLITE OF PRIMAQUINE, TO POTENTIAL HEMOTOXIC INTERMEDIATES

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PHOSPHORYLATION OF *PLASMODIUM* EUKARYOTIC INITIATION FACTOR 2 α IN RESPONSE TO ARTEMISININ THERAPY

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EFFECTIVE SCALING-UP OF SEASONAL MALARIA CHEMOPREVENTION IN BURKINA FASO

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PREVALENCE OF MUTATIONS ASSOCIATED WITH SULPHADOXINE-PYRIMETHAMINE (SP) RESISTANCE IN *PLASMODIUM FALCIPARUM* SAMPLES FROM THE GENERAL POPULATION AND PREGNANT WOMEN IN NANORO, BURKINA FASO

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ON THE ADEQUACY OF A 28 DAY FOLLOW-UP PERIOD FOR ARTEMETHER LUMEFANTRINE AGAINST UNCOMPLICATED *P. FALCIPARUM* MALARIA

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PLASMODIUM FALCIPARUM PARASITE CLEARANCE IN THE PERUVIAN AMAZON AS PART OF A DOD HARMONIZED CLINICAL TRIAL

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DOES METHYLENE BLUE ENHANCE THE *EX VIVO* ANTIMALARIAL BLOOD SCHIZONTICIDAL ACTIVITY OF ARTESUNATE-AMODIAQUINE?

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PARASITE CLEARANCE AND DECLINES IN ARTEMETHER EXPOSURE OVER THE COURSE OF ARTEMETHER-LUMEFANTRINE TREATMENT FOR *PLASMODIUM FALCIPARUM* MALARIA IN UGANDAN CHILDREN

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DEFINING THE DESIRED ATTRIBUTES OF NEXT GENERATION SMC DRUG

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TARGETING ADENYLATE CYCLASE AS A NOVEL AVENUE FOR ANTIPARASITIC DRUG DESIGN

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KELCH PROTEIN GENE (K13) MUTATIONS IN *PLASMODIUM FALCIPARUM* POPULATIONS IN THREE MALARIA HOT SPOTS OF VIETNAM

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INTERMITTENT PREVENTIVE TREATMENT CONTINUES TO PROVIDE BENEFIT TO MALAWIAN PREGNANT WOMEN

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UNCOMPLICATED MALARIA TREATMENT FAILURES AFTER ARTESUNATE-AMODIAQUINE COMBINATION THERAPY IN TWO ECOLOGICAL ZONES IN GHANA

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DOSE-RESPONSE EFFECT OF SULFADOXINE-PYRIMETHAMINE ADMINISTERED AS INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY REDUCES ADVERSE BIRTH OUTCOMES RELATED TO SEXUALLY TRANSMITTED AND REPRODUCTIVE TRACT INFECTIONS

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POPULATION GENETICS OF THE CHLOROQUINE-RESISTANT GENE PFCRT IN CAMEROONIAN FIELD *PLASMODIUM FALCIPARUM* ISOLATES

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THE PROTECT STUDY: MATERNAL AND CHILD MALARIA CHEMOPREVENTION TO ENHANCE CHILD DEVELOPMENT

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THE EFFECT OF ARTEMISININ-BASED COMBINATION THERAPY (ACT) OPTIONS ON HEMATOLOGICAL RESPONSE IN *PLASMODIUM FALCIPARUM* MALARIA: A SYSTEMATIC REVIEW AND POOLED ANALYSIS OF INDIVIDUAL PATIENT DATA

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ANTIMALARIAL DRUG-RESISTANCE; WHAT DO HIV AND IMMUNITY HAVE TO DO WITH IT?

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EFFICACY OF ARTEMETHER-LUMEFANTRINE FOR TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN CRUZEIRO DO SUL, ACRE, BRAZIL

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SHOULD WE STILL USE QUININE IV FOR SEVERE MALARIA?

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SAFETY AND TOLERABILITY OF DIHYDROARTEMISININ-PIPERAQUINE AS INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN A REFUGEE CAMP, ADJUMANI, UGANDA

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FALSE SECURITY FROM OBSOLETE MALARIA DRUG-RESISTANCE MARKERS

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ASSESSMENT OF THE USE OF MALARIA RAPID DIAGNOSTIC TESTS IN HEALTH FACILITIES IN GHANA

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STRUCTURAL AND FUNCTIONAL EFFECTS OF HEME BINDING TO RCPFHRP2: IMPLICATIONS FOR MALARIA DIAGNOSIS

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IMPROVING QUALITY OF MALARIA RAPID DIAGNOSTIC TESTING AND TEST ADHERENCE THROUGH QUALITY ASSURANCE

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ALL-IN-ONE, MULTIPLEXED ON-BEAD ELISA FOR MALARIAL BIOMARKERS PLDH AND PFHRP2

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MALARIA MICROSCOPY COMPETENCY IN LIBERIA POST EBOLA DISEASE OUTBREAK

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877**FIELD EVALUATION OF A REAL TIME LOOP-MEDIATED ISOTHERMAL AMPLIFICATION ASSAY (REALAMP) FOR MALARIA DIAGNOSIS IN CRUZEIRO DO SUL, ACRE, BRAZIL**

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878**CAN PHARMACY PROVIDERS PROVIDE QUALITY MALARIA DIAGNOSTIC IN KENYA: RESULTS FROM EXIT INTERVIEW AND MYSTERY CLIENT STUDIES FROM THE KENYAN COAST**

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879**PFHRP2 DETECTING MALARIA RDTs: ALARMING FALSE NEGATIVE RESULTS IN ERITREA**

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(ACMCIP Abstract)**880****DIRECT, HIGH-THROUGHPUT QUANTIFICATION OF PARASITIC DNA IN MULTIPLE SAMPLE TYPES WITHOUT DNA EXTRACTION**

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881**HIGH-THROUGHPUT, MULTIPLEX GENOTYPING DIRECTLY FROM SALIVA AND BUCCAL SWABS WITHOUT DNA PURIFICATION**

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882**UPTAKE OF MALARIA DIAGNOSTIC TESTS AND ADHERENCE TO NEGATIVE TEST RESULTS AMONG FEVER CARE SEEKERS AT INFORMAL DRUG SHOPS IN UGANDA**

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883**A MINIATURIZED FLOW CYTOMETRY PLATFORM FOR MALARIA DIAGNOSTICS**

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884**EVALUATION OF THE PARASIGHT PLATFORM FOR RAPID AND HIGHLY ACCURATE MALARIA DIAGNOSIS**

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885**NO MORE HIDING: PICOGRAM DETECTION OF HISTIDINE-RICH PROTEIN 2 FROM *PLASMODIUM FALCIPARUM***

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886**APTAMER-BASED LOW RESOURCE DIAGNOSTICS FOR DETECTION OF MALARIAL BIOMARKER *PLASMODIUM* LACTATE DEHYDROGENASE**

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887**GUIDING THE DEVELOPMENT OF IMPROVED DIAGNOSTICS FOR MALARIA: LIMIT-OF-DETECTION OF CURRENT RAPID DIAGNOSTIC TESTS**

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888**LAMP VERSUS MICROSCOPY AND RDT TO DETECT MALARIA IN PREGNANT WOMEN: A CROSS SECTIONAL STUDY IN NW ETHIOPIA**

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Malaria – Elimination**889****MALARIA STRATIFICATION FOR ELIMINATION ACTIVITIES**

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INCREASED PREVALENCE OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* INFECTION IN DIENGA, SOUTHEASTERN GABON

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MOLECULAR EVIDENCE OF HIGH RATES OF ASYMPTOMATIC *P. VIVAX* INFECTION AND VERY LOW *P. FALCIPARUM* MALARIA IN BOTSWANA

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USE OF ACTIVE AND PASSIVE SURVEILLANCE TO DETERMINE THE RISK FACTORS FOR MALARIA INFECTION IN ACEH BESAR, INDONESIA, A LOW-ENDEMIC, MULTI-SPECIES SETTING (*PLASMODIUM KNOWLESI*, *P. VIVAX*, AND *P. FALCIPARUM* INFECTION) AIMING FOR MALARIA ELIMINATION

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USE OF 'EASY ACCESS GROUPS' TO GUIDE MALARIA ELIMINATION INTERVENTIONS IN HAITI - SURVEYS AMONG PRIMARY SCHOOL, HEALTH FACILITY AND CHURCH ATTENDEES TO REFINE TRANSMISSION RISK AREAS AND TARGET INTERVENTIONS

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PRIMAQUINE SAFETY IN G6PD-DEFICIENT MILITARY COHORT IN CAMBODIA USING THE LOWER-DOSE, EXTENDED COURSE REGIMEN AS PART OF MASS DRUG ADMINISTRATION FOR MALARIA ELIMINATION

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COMPARATIVE ACCURACIES OF THREE MODELS OF HOTSPOT PREDICTION IN THE PRE-ELIMINATION SETTING OF ZAMBEZI REGION, NAMIBIA

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ENTOMOLOGICAL MONITORING ACTIVITIES DURING A MALARIA ELIMINATION PILOT PROJECT IN SOUTHERN MOZAMBIQUE

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ASSESSING ASSOCIATIONS BETWEEN RECENT TRAVEL AND MALARIA PARASITE PREVALENCE DURING A MASS DRUG ADMINISTRATION CAMPAIGN IN SOUTHERN ZAMBIA

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DEMOGRAPHICS AND MALARIA PREVENTION IN MOBILE AND MIGRANT POPULATIONS IN SOUTHERN LAO PDR

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AN INVESTMENT CASE FOR MALARIA ELIMINATION IN THE PHILIPPINES

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REACTIVE CASE DETECTION FOR MALARIA ELIMINATION

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MALARIA ELIMINATION IN INDIA: LARVIVOROUS FISH PLAY AN IMPORTANT ROLE UNDER LARVAL SOURCE MANAGEMENT STRATEGY

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THE USE OF SCHOOL RECORDS TO MEASURE THE IMPACT OF A MALARIA CONTROL INTERVENTION ON ATTENDANCE IN A RURAL WESTERN KENYA

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TREATMENT ADHERENCE TO DIHYDROARTEMISININ-PIPERAQUINE DURING MASS DRUG ADMINISTRATION FOR MALARIA IN SOUTHERN PROVINCE, ZAMBIA

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ACCELERATING THE REDUCTION OF MALARIA TRANSMISSION IN KANEL, RANÉROU AND LINGUÈRE DISTRICTS (SENEGAL): CASE INVESTIGATION WITH FOCAL DRUG ADMINISTRATION

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HETEROGENEOUS PREVALENCE OF SUBCLINICAL MALARIA MEASURED BY ULTRASENSITIVE PCR IN MYANMAR

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REACTIVE CASE INVESTIGATION WITH REACTIVE FOCAL TESTING AND TREATMENT FOR MALARIA IN TARGETED REGIONS IN ETHIOPIA AND SENEGAL: OPERATIONAL LEARNINGS

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DO DASHBOARDS MATTER TO DISTRICT HEALTH MANAGERS? DOCUMENTED EXPERIENCE FROM THE DEVELOPMENT AND TESTING OF VISUALIZATIONS, DASHBOARDS AND ALERTS FOR MALARIA ELIMINATION IN SOUTHERN PROVINCE, ZAMBIA

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AUDIT OF MALARIA DEATHS REPORTED IN THE ROUTINE MALARIA INFORMATION SYSTEM (RMIS) IN 4 REGIONAL DEPARTMENTS, BENIN, 2015

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EVALUATING THE COVERAGE AND IMPACT OF A UNIVERSAL COVERAGE BED NET CAMPAIGN IN TWO DISTRICTS IN NAMPULA PROVINCE, MOZAMBIQUE: A SERIES OF CROSS-SECTIONAL HOUSEHOLD SURVEYS

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HIGH LEVEL OF SUBMICROSCOPIC INFECTIONS OF FOUR *PLASMODIUM* SPECIES DURING PRE-ELIMINATION PHASE IN NORTH SUMATERA, INDONESIA

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AN UPDATE ON EVIDENCE OF STRATEGIES TO PREVENT MALARIA IN PREGNANCY

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THE EPIDEMIOLOGY OF GENDER DIFFERENCES IN MALARIA UNRELATED TO PREGNANCY

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ASSOCIATIONS BETWEEN MEASURE OF MALARIA DURING PREGNANCY AND ADVERSE BIRTH OUTCOMES

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RECENT TRENDS IN MALARIA INCIDENCE AND SURVEILLANCE IN CAMBODIA

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SPATIAL CHANGE IN THE RISKS OF *PLASMODIUM VIVAX* AND *PLASMODIUM FALCIPARUM* MALARIA IN CHINA, 2005-2014

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MALARIA SURVEILLANCE DURING THE TRANSIT FROM CONTROL TO PRE-ELIMINATION

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DO MALARIA HOTSPOTS REALLY FUEL TRANSMISSION?

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HEALTH WORKER ADHERENCE TO MALARIA CASE MANAGEMENT GUIDELINES AT PUBLICLY FUNDED OUTPATIENT HEALTH FACILITIES — SOUTHERN MALAWI, 2015

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THE CHANGING BURDEN OF MALARIA IN PREGNANCY AND CURRENT EFFECTIVENESS OF INTERVENTIONS

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PREVALENCE OF ASYMPTOMATIC MALARIA AND ANAEMIA AMONG SCHOOL AGE CHILDREN IN TWO ECOLOGICAL ZONES IN GHANA

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FAILURE OF AVAILABLE MALARIA CONTROL INTERVENTIONS IN DANGASSA, MALI: CONTINUOUSLY HIGH PREVALENCE OF *P. FALCIPARUM* INFECTION IN A COHORT OF 1,400 INDIVIDUALS FROM 2012 TO 2015

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TREATMENT SEEKING BEHAVIOR, DIAGNOSIS AND TREATMENT PRACTICES IN TANZANIA: COMPARISON BETWEEN COMMUNITY SURVEYS CONDUCTED SOON AFTER THE IMPLEMENTATION OF THE AFFORDABLE MEDICINES FACILITY - MALARIA AND THE MRDTS ROLL OUT, AND THREE YEARS LATER

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Malaria - Genetics/Genomics

ACCESSING VIVAX MALARIA WITH OVERLOOKED GENES: THE DIVERSITY OF VIR GENES IN *PLASMODIUM VIVAX* FROM NORTHERN REPUBLIC OF KOREA

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PACBIO TECHNOLOGIES FACILITATE GENERATION OF A HIGH-QUALITY *PLASMODIUM COATNEYI* GENOME SEQUENCE AND ASSEMBLY

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GENETIC POPULATION STRUCTURE IN HOTSPOTS OF *P. VIVAX* INFECTIONS IN THE PERUVIAN AMAZON: CLOSING THE GAP BETWEEN GENETICS AND EPIDEMIOLOGY

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TEMPORAL DYNAMICS OF GENOME-WIDE TRANSCRIPTION IN MALARIAL CHILDREN IN BURKINA FASO

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GENOMIC SIGNALS OF CHANGING MALARIA TRANSMISSION

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DEVELOPMENT OF A MULTIPLEX QPCR ASSAY FOR THE QUANTIFICATION OF *P. FALCIPARUM* GAMETOCYTOGENESIS IN A COHORT OF ASYMPTOMATICALLY INFECTED ADULTS IN WESTERN KENYA

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TURNING BACK THE CLOCK: A HISTORY OF APICOMPLEXAN SPECIES DIVERGENCE

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DETERMINATION OF THE *PLASMODIUM VIVAX* RECURRENCE PATTERN IN INDIVIDUALS OF THE COMMUNITIES OF CAHUIDE AND LUPUNA OF THE PERUVIAN AMAZON

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A PARASITE GENETICS APPROACH TO EVALUATE MALARIA TRANSMISSION DYNAMICS IN ZAMBIA

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ORIGIN AND SPREAD OF *PLASMODIUM VIVAX* AND *PLASMODIUM FALCIPARUM* IN THE AMERICAS

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EVOLUTION OF THE TRANSMISSION-BLOCKING VACCINE CANDIDATES PVS28 AND PVS25 IN *PLASMODIUM VIVAX*: GEOGRAPHIC DIFFERENTIATION AND EVIDENCE OF POSITIVE SELECTION

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ASSOCIATION BETWEEN THE ALPHA THALASSEMIA TRAIT AND *PLASMODIUM FALCIPARUM* GAMETOCYTEA IN A MALARIA ENDEMIC AREA IN GHANA

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PLASMODIUM VIVAX ISOPRENOIDS BIOSYNTHESIS PATHWAY ENZYMES AS PROBABLE DRUG TARGETS

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NOVEL CLUSTERING ALGORITHM IMPROVES HAPLOTYPE DETERMINATION FROM PACBIO TARGETED AMPLICON SEQUENCING DATA

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EVIDENCE OF SELECTION AND GENE COPY NUMBER VARIATIONS IN VIRULENCE FACTORS AND RESISTANCE GENES IN *PLASMODIUM FALCIPARUM* FROM LORETO - PERU

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Malaria - Immunology

INFLUENCE OF SEASONAL MALARIA CHEMOPREVENTION ON MARKERS OF T CELL EXHAUSTION AND IMMUNOREGULATION

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SEASONAL MALARIA CHEMOPREVENTION IS ASSOCIATED WITH A REDUCTION IN SEROPOSITIVITY TO BLOOD-STAGE ANTIGENS

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IDENTIFICATION OF IMMUNE SIGNATURES UNDERLYING CLINICAL IMMUNITY TO *P. FALCIPARUM* MALARIA

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EFFECT OF ALLELIC POLYMORPHISM ON MALARIA PARASITE SPECIFIC *EX VIVO* IFN-GAMMA (IFN- γ) RESPONSES TO APICAL MEMBRANE ANTIGEN 1 (AMA1) IN A MALARIA EXPOSED POPULATION

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*Noguchi Memorial Institute for Medical Research, Accra, Ghana***(ACMCIP Abstract)****954****PURIFICATION OF PLASMODIUM SPOROZOITES ENHANCES PARASITE-SPECIFIC CD8+ T CELL RESPONSES**Zachary P. Billman, Annette M. Seilie, Sean C. Murphy
*University of Washington, Seattle, WA, United States***(ACMCIP Abstract)****955****T-CELL DYNAMICS REVEAL A POTENTIAL ROLE FOR CD8+ T-CELLS DURING BLOOD-STAGE P. CYNOMOLGI INFECTION OF RHESUS MACAQUES**Chet Joyner¹, Cristiana F. Brito², Yan Tang¹, Swetha Garimalla³, Chris C. Ibegbu¹, Monica Cabrera-Mora¹, the MaHPIC Consortium, Tracey J. Lamb⁴, Mary R. Galinski⁵¹Malaria Host-Pathogen Interaction Center, Emory Vaccine Center, Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, ²Research Center Rene Rachou, Oswaldo Cruz Foundation, Belo Horizonte, MG, Brazil, ³School of Biology, Georgia Institute of Technology, Atlanta, GA, United States, ⁴Division of Infectious Diseases, Department of Pediatrics, Emory University School of Medicine and Emory Children's Centre, Atlanta, GA, United States, ⁵Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, GA, United States**(ACMCIP Abstract)****956****DECREASED MALARIA TRANSMISSION IN KENYA LED TO DELAYED ACQUISITION OF ANTI-MALARIAL ANTIBODIES IN CHILDREN AND ADULTS**Grace E. Weber¹, Peter Odada Sumba², John Vulule², Elisabeth Baum³, Huw Davies³, Joseph Smith⁴, James W. Kazura¹, Arlene E. Dent¹¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³University of California Irvine, Irvine, CA, United States, ⁴University of Washington Seattle Biomedical Research Institute, Seattle, WA, United States**957****ANTIBODY RESPONSES IN MALARIA-NAÏVE ADULTS AFTER IMMUNIZATION VIA MOSQUITO BITE WITH RADIATION-ATTENUATED PLASMODIUM FALCIPARUM SPOROZOITES (IMRAS)**Joanne Lumsden¹, Nimfa Teneza-Mora², Bradley Hickey², Selma Akan³, Danielle Jateng³, Sharina Reyes¹, Jo Glenna Banania¹, Charlotte Fedders¹, Ivelese Padilla¹, Alicia Simmons¹, Harini Ganeshan¹, Megan Dowler³, Lindsey Garver³, Silas Davidson³, Martha Sedegah², James Moon³, Eileen Villasante², Judith Epstein²¹Henry M. Jackson Foundation, Rockville, MD, United States, ²Naval Medical Research Center, Silver Spring, MD, United States, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States**958****IDENTIFICATION OF PFEMP1 EPITOPES USING A DIVERSITY-COVERING ULTRADENSE PEPTIDE MICROARRAY**Mark A. Travassos¹, Andrea A. Berry¹, Andrew Pike¹, Jason A. Bailey¹, Emily M. Stucke¹, Antoine Dara¹, Sonia Agrawal¹, Amed Ouattara¹, Drissa Coulibaly², Kirsten E. Lyke¹, Matthew B. Laurens¹, Matthew Adams¹, Shannon Takala-Harrison¹, Amadou Niangaly², Bourema Kouriba², Abdoulaye K. Kone², J. Alexandra Rowe³, Ogobara K. Doumbo², Mahamadou A. Thera², Myaing M. Nyunt¹, Philip L. Felgner⁴, Jigar J. Patel⁵, John C. Tan⁵, Christopher V. Plowe¹¹University of Maryland School of Medicine, Baltimore, MD, United States, ²University Science, Techniques and Technologies of Bamako, Bamako, Mali, ³University of Edinburgh, Edinburgh, United Kingdom, ⁴University of California Irvine, Irvine, CA, United States, ⁵Roche NimbleGen Inc., Madison, WI, United States**(ACMCIP Abstract)****959****AN ULTRA-DENSE PEPTIDE ARRAY FOR IDENTIFYING HUMAN ANTIBODY BINDING SITES ON MALARIA PARASITE ANTIGENS**Andrea A. Berry¹, Andrew Pike¹, Jason A. Bailey¹, Mark A. Travassos¹, Amed Ouattara¹, Sonia Agrawal¹, Antoine Dara¹, Lauren M. Cohee¹, Drissa Coulibaly², Kirsten E. Lyke¹, Matthew B. Laurens¹, Matthew Adams¹, Shannon Takala-Harrison¹, Amadou Niangaly², Issa Diarra², Modibo Daou², Bourema Kouriba², Abdoulaye K. Kone², Ogobara K. Doumbo², Mahamadou A. Thera², Tracking Resistance to Artemisinin Collaboration, Myaing M. Nyunt¹, Philip L. Felgner³, Jigar J. Patel⁴, John C. Tan⁴, Christopher V. Plowe¹¹Institute for Global Health, Division of Malaria Research, University of Maryland School of Medicine, Baltimore, MD, United States, ²Malaria Research and Training Center, University of Sciences, Techniques and Technologies, Bamako, Mali, ³University of California Irvine, Irvine, CA, United States, ⁴Roche NimbleGen Inc., Madison, WI, United States**960****THE TRANSCRIPTION FACTOR T-BET COMPROMISES HUMORAL IMMUNITY TO BLOOD-STAGE MALARIA BY INHIBITING THE EFFICIENT DEVELOPMENT OF GERMINAL CENTRE RESPONSES**

Diana S. Hansen, Ann Ly, Lisa J. Ioannidis, Axel Kallies

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PROFILES OF PFEMP1-SPECIFIC IGG ANTIBODIES FROM BIRTH TO 12 MONTHS OF AGE IN BENINESE INFANTS

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(ACMCIP Abstract)

P. FALCIPARUM EPIDEMIOLOGY IS GOVERNED BY MULTI-SCALE IMMUNE SELECTION AND A DIVERSITY-TRANSMISSION FEEDBACK

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A PROSPECTIVE STUDY OF B CELL DYNAMICS IN PATIENTS WITH MALARIA USING MASS CYTOMETRY

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LONGITUDINAL ASSESSMENT OF PFSPZ-SPECIFIC T CELL RESPONSES IN MALARIA-NAÏVE ADULTS VACCINATED WITH PFSPZ VACCINE

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Malaria - Modeling

ASSESSING THE IMPACT OF NON-ADHERENCE TO ANTIMALARIALS USING WITHIN-HOST MODELING OF FALCIPARUM MALARIA

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FORECASTING MALARIA ADMISSIONS AT A RURAL DISTRICT HOSPITAL IN WESTERN KENYA USING REMOTE SENSING DATA

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A QUANTITATIVE ANALYSIS OF THE IMPROBABILITY OF FERTILIZATION AT LOW GAMETOCYTEMIAS IN THE ABSENCE OF TRANSMISSION-ENHANCING MECHANISMS

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(ACMCIP Abstract)

A SIMULATION STUDY OF WHEN MALARIA CONTROL AND ELIMINATION PROGRAMS CAN SAFELY REDUCE VECTOR CONTROL EFFORTS

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EPIDEMIA: AN ONLINE PLATFORM FOR DATA ACQUISITION, INTEGRATION, AND ANALYSIS TO SUPPORT ECOLOGICAL FORECASTING OF MALARIA OUTBREAKS

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MATHEMATICAL MODELLING OF TAFENOQUINE FOR P. FALCIPARUM MALARIA ELIMINATION

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IDENTIFYING MALARIA RISK FACTORS IN A HYPERENDEMIC SETTING USING BAYESIAN MODEL SELECTION

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ATTACKING THE MOSQUITO ON MULTIPLE FRONTS: INSIGHTS ON OPTIMAL COMBINATIONS OF VECTOR CONTROL INTERVENTIONS FOR MALARIA ELIMINATION FROM A MATHEMATICAL MODEL

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IMPACT OF SEASONAL MALARIA CHEMOPROPHYLAXIS IN A HIGH AND SEASONAL MALARIA TRANSMISSION SETTING IN BURKINA FASO

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SPRAYING OF MALE MATING SWARMS AS A NOVEL VECTOR CONTROL INTERVENTION: INSIGHTS FROM A MATHEMATICAL MODEL

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DEVELOPING AN EARLY WARNING SYSTEM FOR MALARIA IN THE AMAZON: PROGRESS IN PERU

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REQUIREMENTS FOR EFFECTIVE CRISPR-CAS9-BASED GENE DRIVE FOR THE CONTROL OF MALARIA AND OTHER VECTOR-BORNE DISEASES

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MODELING THE USE OF A 20-HYDROXYECDYSONE STEROID AGONIST FOR MALARIA CONTROL

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WITHIN-HOST MATHEMATICAL MODELS OF MALARIA BUILT FROM MULTI-OMIC DATASETS

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Malaria – Other

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ORDE WINGATE'S SUICIDE ATTEMPT, CAIRO, 1942: A CASE STUDY IN ACUTE ATABRINE PSYCHOSIS

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JOINT EFFORTS, A KEY TO SUCCESS FOR THE MALARIA IN PREGNANCY PROGRAM IN LUANDA, ANGOLA

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STUDY ON PATIENT ADHERENCE TO CHLOROQUINE AND PRIMAQUINE TREATMENT FOR *PLASMODIUM VIVAX* MALARIA IN MANAUS, STATE OF AMAZONAS

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PRE-SERVICE TRAINING INSTITUTIONS: AN IMPORTANT CONTRIBUTOR TO SCALE UP OF HIGH QUALITY MALARIA CASE MANAGEMENT SERVICES IN MALAWI

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IMPROVING QUALITY OF MALARIA CASE MANAGEMENT IN MALAWI THROUGH TARGETED CLINICAL MENTORING

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CLINICAL, DEMOGRAPHIC AND LABORATORY DATA AND METADATA COLLECTION FOR HUMAN MALARIA BLOOD SAMPLES COLLECTED FROM INDIVIDUALS LIVING IN DIVERSE EPIDEMIOLOGICAL SETTINGS

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USING OUTREACH TRAINING AND SUPPORTIVE SUPERVISION (OTSS) RESULTS TO MONITOR ADHERENCE TO REVISED MALARIA TREATMENT GUIDELINES IN THE EASTERN REGION OF GHANA

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Tuesday
November 15

LESSONS LEARNED: MALARIA CASE MANAGEMENT TRAINING IN MADAGASCAR

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ASSESSING THE PERFORMANCE OF AN INTEGRATED DISEASE SURVEILLANCE AND RESPONSE SYSTEM IN THE CONTEXT OF VARYING MALARIA TRANSMISSION: A CASE STUDY FROM MADAGASCAR

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MONITORING AND EVALUATION WORKSHOPS: AN APPROACH TO IMPROVE MALARIA INFORMATION SYSTEMS AND DATA USE TO BETTER INFORM PROGRAM IMPLEMENTATION

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MAPPING MALARIA RESEARCH FOCUS, CAPACITY AND INTERNATIONAL COLLABORATION IN NIGERIA

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THE INCUBATION PERIOD OF MALARIA AMONGST TRAVELERS RETURNING TO THE UK

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THE USE OF RESPONDENT-DRIVEN SAMPLING TO ASSESS MALARIA KNOWLEDGE, TREATMENT-SEEKING BEHAVIORS AND PREVENTIVE PRACTICES AMONG MOBILE AND MIGRANT POPULATIONS IN AN ARTEMISININ RESISTANCE SETTING IN WESTERN CAMBODIA

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LACK OF MORTALITY IN CHILDREN WITH SICKLE CELL DISEASE AND SEVERE MALARIAL ANEMIA WHO RECEIVE TIMELY BLOOD TRANSFUSION

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AGE- AND PREVALENCE-RELATED MALARIA INFECTION RISK AND TREATMENT BEHAVIOR: EVIDENCE FROM A HOUSEHOLD SURVEY IN UGANDA

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RELATIONSHIP BETWEEN THE PREVALENCE OF PARASITEMIA IN PREGNANT WOMEN AND CHILDREN: BIKO ISLAND MALARIA INDICATOR SURVEY 2008-2015

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Malaria - Vaccines

ONE YEAR STABILITY ANALYSES OF PFS25-EPA AND PFS230-EPA CONJUGATES ADJUVANTED WITH ALHYDROGEL[®]

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LONG TERM IMMUNE RESPONSES INDUCED AGAINST P. VIVAX CSP AND MSP-1 CHIMERIC VACCINE CANDIDATES DELIVERED BY NOVEL ADENOVIRAL VECTORS

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A HYBRID P. VIVAX BLOOD STAGE-TRANSMISSION BLOCKING VACCINE CANDIDATE ELICITS ROBUST CELLULAR IMMUNE RESPONSES AND LONG-LIVED FUNCTIONAL ANTIBODIES

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SAFETY AND IMMUNOGENICITY OF THE NOVEL *PLASMODIUM FALCIPARUM* BLOOD-STAGE VACCINE CHAD63-MVA RH5 IN A PHASE IA CLINICAL TRIAL

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ENHANCED PROTECTIVE EFFICACY OF A *P. FALCIPARUM* MALARIA VACCINE USING A HETEROLOGOUS PRIME-BOOST IMMUNIZATION WITH A BACULOVIRAL VACCINE AND CHAD63 EXPRESSING PFCSP AGAINST CHALLENGE WITH A TRANSGENIC *P. BERGHEI* SPOOROZOITES

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CRYOPRESERVATION RELATED LOSS OF ANTIGEN SPECIFIC IFN γ PRODUCING CD4+ T-CELLS: LESSONS FROM A MALARIA VACCINE TRIAL SUBSTUDY

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RTS,S MALARIA VACCINE EFFICACY DOES NOT VARY WITH SEASONAL PRECIPITATION: RESULTS FROM LILONGWE, MALAWI

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ANALYSIS OF THE CELLULAR IMMUNE RESPONSE IN C57BL/6 MICE TO FMP014 - A SELF-ASSEMBLING PROTEIN NANOPARTICLE BASED MALARIA VACCINE - DELIVERED IN ALF ADJUVANTS

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ANTIBODY RESPONSES TO VACCINATION WITH *PLASMODIUM FALCIPARUM* APICAL MEMBRANE ANTIGEN 1 ARE BIASED TOWARD THREE CONSERVED IMMUNODOMINANT EPITOPES AND DO NOT MIMIC THOSE TO NATURAL INFECTION

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LESSONS LEARNED FROM THE MANAGEMENT OF THE INVESTIGATIONAL PRODUCT DURING PHASES 1B AND 2B MALARIA VACCINES TRIAL IN BURKINA FASO

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BIVALENT CONJUGATE VACCINE TO BLOCK MALARIA TRANSMISSION AND TYPHOID FEVER

SoJung An, Emma Barnafo, Beth Chen, Christopher Rowe, Charles Anderson, Olga Muratova, Sarah Brockley, Lynn Lambert, Kelly Rausch, David Narum, Patrick E. Duffy, Puthupparampil Scaria

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IMPACT OF THE ADDITION OF A SIGNAL SEQUENCE ON THE IMMUNOGENICITY OF A MULTI-STAGE VACCINE AGAINST *PLASMODIUM VIVAX* DELIVERED BY A NOVEL RECOMBINANT SIMIAN ADENOVIRUS VECTOR

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ANTIBODY RESPONSES TO HEPATITIS B SURFACE ANTIGEN FOLLOWING ADMINISTRATION OF RTS,S/AS01E TO HIV-INFECTED AFRICAN INFANTS AND CHILDREN

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A CLINICAL TRIAL TO EVALUATE THE SAFETY AND INFECTIVITY OF DIRECT VENOUS INOCULATION OF ASEPTIC, PURIFIED, CRYOPRESERVED *PLASMODIUM FALCIPARUM* (7G8 AND NF54) SPOROZOITES IN MALARIA-NAÏVE ADULTS IN BALTIMORE, USA

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EVALUATION OF THE SAFETY AND IMMUNOGENICITY OF NANOPARTICLE FORMULATIONS WITH RECOMBINANT *PLASMODIUM FALCIPARUM* TRANSMISSION-BLOCKING ANTIGEN PFS25

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EVALUATING THE POTENTIAL TO TRANSMIT MALARIA FROM HUMANS TO MOSQUITOES DURING CONTROLLED HUMAN MALARIA INFECTION WITH *P. FALCIPARUM* AND *P. VIVAX*

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CLINICAL DEVELOPMENT OF A VAR2CSA-BASED PLACENTAL MALARIA VACCINE PLACMALVAC: DECRYPTION OF THE ANTIBODY ACQUISITION AGAINST THE VACCINE CANDIDATE ID1-ID2

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(ACMCIP Abstract)

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ANTIBODIES TO PLANT-PRODUCED *P. FALCIPARUM* SEXUAL STAGE PROTEINS EXHIBIT TRANSMISSION BLOCKING ACTIVITY

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Malaria/Mosquitoes - Field Prevention

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QUANTIFICATION OF BED-NET LOSS AND LEAKAGE FOLLOWING A MASS-DISTRIBUTION CAMPAIGN ON BIKO ISLAND USING THE CAMPAIGN INFORMATION MANAGEMENT SYSTEM (CIMS)

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DYNAMICS OF ENTOMOLOGICAL INOCULATION RATES FOLLOWING INDOOR RESIDUAL SPRAYING IN MALI

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USE AND USER CHARACTERISTICS OF INTACT OR "TOO TORN" INSECTICIDE-TREATED MOSQUITO NETS IN TANZANIA

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A COMPARISON OF THE EFFECTIVENESS OF BEHAVIOR CHANGE COMMUNICATION (BCC) PLUS REPAIR KITS AND BCC ALONE IN PROMOTING REPAIR OF LONG-LASTING INSECTICIDAL NETS IN BENIN

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DRY SEASON MALARIA TRANSMISSION REDUCES THE IMPACT OF SEASONAL INDOOR RESIDUAL SPRAYING IN BENIN

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DETECTION OF *PLASMODIUM FALCIPARUM* INFECTION IN *ANOPHELES SQUAMOSUS* IN AN AREA TARGETED FOR MALARIA ELIMINATION, SOUTHERN ZAMBIA

Jennifer C. Stevenson¹, Limonty Simubali², Saidon Mbambara², Michael Musonda², Sydney Mweetwa², Twig Mudenda², Julia C. Pringle¹, Christine M. Jones¹, Douglas E. Norris¹, Southern Africa ICMER
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A COMPREHENSIVE ACCESS METRIC FOR ESTIMATING THE GAP IN INSECTICIDE TREATED NET USE CONDITIONAL ON ACCESS

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MALARIA UPSURGE FOLLOWING WITHDRAWAL OF INDOOR RESIDUAL SPRAYING IN NORTHERN UGANDA

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COVERING HOUSE EAVE GAPS AND CEILINGS WITH OLYSET® NET REDUCES RISK OF *PLASMODIUM FALCIPARUM* PARASITE INFECTION AMONG CHILDREN: A CLUSTER RANDOMIZED CONTROLLED TRIAL

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REPELLENCY OF THREE ESSENTIAL OIL AND MAJOR CONSTITUENTS TO WILD ADULT *ANOPHELES KLEINI*

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Bacteriology - Enteric Infections

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PREVALENCE OF SOME ENTEROPATHOGENS AMONG DIARRHOEIC AND APPARENTLY HEALTHY CHILDREN IN EKET AND IBENO, AKWA IBOM STATE, NIGERIA

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DEFINING THE BURDEN AND EPIDEMIOLOGY OF SHIGELLOSIS IN RURAL ASEMBO, WESTERN KENYA, 2007-2014

Richard Omoro¹, Allan Audi¹, Billy Ogwel¹, Joshua Auko¹, Jon B. Ochieng¹, George Aol¹, Jane Juma¹, Godfrey Bigogo¹, Marc-Alain Widdowson², Jennifer R. Verani²
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RISK FACTORS ASSOCIATED WITH TYPICAL ENTEROPATHOGENIC *ESCHERICHIA COLI* INFECTION AMONG CHILDREN <5 YEARS OLD WITH MODERATE-TO-SEVERE DIARRHEA IN RURAL WESTERN KENYA, 2008-2012

Kirsten Fagerli¹, Richard Omoro², Sunkyung Kim³, John B. Ochieng², Tracy Ayers³, Tamer H. Farag⁴, Dilruba Nasrin⁴, Sandra Panchalingam⁴, Roy M. Robins-Browne⁵, James P. Nataro⁴, Karen L. Kotloff⁴, Myron M. Levine⁴, Joseph Oundo², Michele B. Parsons³, Kayla Laserson⁶, Eric D. Mintz³, Robert F. Breiman⁷, Ciara E. O'Reilly³

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CAUSES AND CONSEQUENCES OF *GIARDIA* INFECTION IN THE FIRST TWO YEARS OF LIFE IN THE MAL-ED BIRTH COHORT

Elizabeth T. Rogawski¹, Luther Bartelt², James A. Platts-Mills¹, Jessica C. Seidman³, Aldo A. Lima⁴, Richard L. Guerrant¹, Pascal O. Bessong⁵, and the MAL-ED Network Investigators

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Rolfy Perez-Holguin¹, Darya Nesterova¹, Wilbert Beachy¹, Anne Huyler¹, Olivia Munizza¹, Ivana Marji¹, Henry Montilla-Guedez¹, Loan Nguyen¹, Andrew Rogers¹, Mona Lotfipour¹, Rosa Burga², Ricardo Abadie², Claudio Rocha², H. Tilley², David Craft¹

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THE SHIFTING PATTERN OF *V. CHOLERA* O1 SEROTYPES OVER A PERIOD FROM 1996 TO 2016 IN BANGLADESH

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Ashraf I. Khan¹, Mohammad Ali², Alamgir Kabir¹, Fahima Chowdhury¹, Amit Saha¹, Iqbal A. Khan¹, Md. Arifuzzaman Khan¹, Afroza Akter¹, Muhammad Asaduzzaman¹, Md. Taufiqul Islam¹, Nirod C. Saha¹, John D. Clemens¹, Firdausi Qadri¹

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INCREASING ANTI-ADHESIN IMMUNE RESPONSES BY MODIFYING FIMBRIAL GENE STEM-LOOP STRUCTURE IN LIVE ATTENUATED SHIGELLA/ETEC VACCINES

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DIARRHEAGENIC *ESCHERICHIA COLI*: PREVALENCE AND PATHOTYPE DISTRIBUTION IN CHILDREN FROM PERUVIAN RURAL COMMUNITIES

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BURDEN OF CHOLERA IN THE WHO EASTERN MEDITERRANEAN REGION (EMR): A MAPPING EXERCISE

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UNDERSTANDING HOW THE FEEDBACK BETWEEN DIARRHEAL DISEASE AND MALNUTRITION IMPACTS THE DYNAMICS OF ENTERIC PATHOGEN TRANSMISSION: A MATHEMATICAL MODELING APPROACH

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EXPLORING HUMAN GUT MICROBIOTA DIVERSITY ACROSS A RURAL TO URBAN GRADIENT IN ECUADOR AND THEIR RESPONSE TO DIARRHEAL INFECTIONS

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1041**THE USE OF ZINC FOR TREATMENT OF CHILDHOOD DIARRHEA IN RURAL WESTERN KENYA, 2010-2014**George A. Otieno¹, Marc-Alain Widdowson², Allan Audi¹, Joshua Auko¹, Godfrey Bigogo¹, Jennifer R. Verani²¹Center for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ²Division of Global Health Protection, Centers for Disease Control and Prevention, Nairobi, Kenya**Bacteriology - Other Bacterial Infections****1042****DECREASED VIRULENCE ASSOCIATED WITH INCREASE EARLY PRO-INFLAMMATORY CYTOKINE INDUCTION BY MYCOBACTERIUM AFRICANUM INFECTED IN MATURE HUMAN MONOCYTE-DERIVED MACROPHAGES**John K. Tetteh¹, Ben Gyan¹, Damien Portevin², Adowa Asante-Poku¹, Mercy J. Newman³, Frank Bonsu⁴, Kwadwo Koram¹, Sebastein Gagneux², Dorothy Yeboah-Manu¹¹Noguchi Memorial Institute for Medical Research, Accra, Ghana, ²Department of Medical Parasitology and Infection Biology, Swiss Tropical and Public Health Institute; University of Basel, Basel, Switzerland, ³Department of Microbiology, School of Biomedical and Allied Health Sciences, University of Ghana Medical School, Accra, Ghana, ⁴Ghana Health Service, Accra, Ghana**1043****ANTIBIOTIC RESISTANCE PATTERNS OF COMMON GRAM-NEGATIVE UROPATHOGENS IN ST. PAUL'S HOSPITAL MILLENNIUM MEDICAL COLLEGE**

Yeshwondm Gebresilasie Mamuye

St. Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia

1044**FIVE-YEAR SURVEILLANCE OF DIPHTHERIA OUTBREAK IN INDONESIA**Dominicus Husada¹, Dwiyantri Puspitasari¹, Leny Kartina¹, Ismoedijanto Moedjito¹, Parwati S. Basuki¹, Bambang W. Kartiko²¹School of Medicine, Airlangga University, Surabaya, Indonesia, ²East Java Provincial Health Office, Surabaya, Indonesia**1045****TRENDS OF SEVERITY AND OUTCOMES OF PATIENTS WITH PNEUMOCOCCAL PNEUMONIA IN RELATION TO SEASONALITY IN NORTHERN AND SOUTHERN HEMISPHERES**Ahmed Babiker¹, Siddhartha Bhandary¹, Jennifer Fuh², Jose Bordon¹, Community Acquired Pneumonia Organisation (CAPO)¹Providence Hospital, Washington, DC, United States, ²A.T. Still University School of Osteopathic Medicine, Mesa, AZ, United States**1046****MOLECULAR-BASED ASSAYS REVEAL *STREPTOCOCCUS PNEUMONIAE* AS THE LEAD ETIOLOGICAL AGENT IN THE ONGOING MENINGITIS EPIDEMIC IN GHANA**

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1047**THE MOLECULAR EPIDEMIOLOGY OF *STAPHYLOCOCCUS AUREUS* SKIN AND SOFT TISSUE INFECTIONS IN THE LAO PEOPLE'S DEMOCRATIC REPUBLIC**Alicia D. Yeap¹, Kate Woods², David Dance², Bruno Pichon¹, Sayaphet Rattanaavong², Viengmon Davong², Paul N. Newton², Nandini Shetty¹, Angela M. Kearns¹¹Antimicrobial Resistance and Healthcare Associated Infections Reference Unit, National Infection Service, Public Health England, London, United Kingdom, ²Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit, Microbiology Laboratory, Mahosot Hospital, Vientiane, Lao People's Democratic Republic**1048****DISTINCT ARRANGEMENTS OF VIRULENCE GENE EXPRESSION IN UROPATHOGENIC *ESCHERICHIA COLI* STRAINS**

Gloria Luz Paniagua Contreras, Eric Monroy Pérez, Tania Hernández Jaimes, Ma. Patricia Sánchez Yáñez, Susana Esther González Almazán, Sergio Vaca Universidad Nacional Autónoma de México FES Iztacala, Tlalneantla, Mexico

1049**METHICILLIN-SENSITIVE AND METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS* (MRSA) CARRIAGE AT A UGANDAN REGIONAL REFERRAL HOSPITAL**Lisa M. Bebell¹, Arnold Ayebare², Yap Boum II³, Mark J. Siedner¹, Joel Bazira², Steven J. Schiff⁴, Joshua P. Metlay¹, David R. Bangsberg¹, Stephen Ttendo², Paul G. Firth¹¹Massachusetts General Hospital, Boston, MA, United States, ²Mbarara University of Science and Technology, Mbarara, Uganda, ³Epicentre Research Base, Mbarara, Uganda, ⁴The Pennsylvania State University, Hershey, PA, United States**1050****DEFINING THE MECHANISMS OF PROTECTIVE IMMUNITY ELICITED BY TWO VACCINE CANDIDATES AGAINST *ORIENTIA TSUTSUGAMUSHI* INFECTION**Chien-Chung Chao¹, Wei-Mei Ching¹, Lindsey Ledbetter², Laura Schoenlaub², Guoquan Zhang²¹Naval Medical Research Center, Silver Spring, MD, United States, ²University of Missouri-Columbia, Columbia, MO, United States**1051****SCRUB TYPHUS: A LONG NEGLECTED PUBLIC HEALTH THREAT IN THE ASIA-PACIFIC AREA AND WORLDWIDE**

Guang Xu, Christine M. Arcari, Daniel Jupiter, Peter C. Melby, David H. Walker The University of Texas Medical Branch, Galveston, TX, United States

1052**PERSISTENCE OF ST217 CLONAL COMPLEX LINEAGE B OF SEROTYPE 1 PNEUMOCOCCAL MENINGITIS IN NORTHERN GHANA - THE PROSPECT OF PNEUMOCOCCAL VACCINES IN AFRICAN MENINGITIS BELT**

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1053**PREVALENCE OF MATERNAL CARRIAGE OF GROUP B *STREPTOCOCCUS* AND *ESCHERICHIA COLI* IN SOUTHERN MOZAMBIQUE**Lola Madrid¹, Sonia Maculuvé², Alba Vilajeliu³, Emma Sáez-López¹, Sergio Massora², Anelsio Cossa², Sara Soto¹, Betuel Sigaúque², Clara Menéndez¹, Quique Bassat¹¹ISGlobal, Barcelona Ctr. Int. Health Res. (CRESIB), Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, ²Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, ³Department of Preventive Medicine and Epidemiology, Hospital Clínic - Universitat de Barcelona, Barcelona, SpainTuesday
November 15

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QUANTIFYING THE INDIRECT EFFECTS OF *HAEMOPHILUS INFLUENZAE* TYPE B VACCINATION IN CHILDREN UNDER AGE 5 YEARS

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BACTERIAL VAGINOSIS IN DAKAR (SENEGAL) IN 2015

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CHANGE IN NASAL COLONIZATION WITH *STAPHYLOCOCCUS AUREUS* IN ACTIVE PERUVIAN MILITARY POPULATION AFTER 1-YEAR FOLLOW-UP

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BLOCKADE OF CTLA-4 IMPAIRS ANTIBACTERIAL IMMUNITY BY REDUCING ACTIVATION OF CD8+ T CELLS AND INCREASING PRODUCTION OF IL-10 BY T CELLS IN MURINE *ORIENTIA TSUTSUGAMUSHI* INFECTION

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(ACMCIP Abstract)

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ANTIBIOTIC RESISTANCE PATTERNS IN BACTEREMIC CHILDREN FROM HOLOENDEMIC *P. FALCIPARUM* MALARIA REGION OF WESTERN KENYA

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RESISTANCE OF *NEISSERIA GONORRHOEAE* IN REMOTE PERUVIAN JUNGLE SETTINGS

Silvia Montano¹, Rosa Burga¹, Claudio Rocha¹, Esther Macedo², Norberto Tangoa³, Robert Cueva⁴, Cesar Ramal⁵, Melita Pizango¹, Nilda Gadea¹, Cristina Hidalgo⁴, Jose Luis Sanchez⁶, Mark P. Simons¹

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Clinical Tropical Medicine

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PRINCIPLES, PRACTICES, AND KNOWLEDGE OF PROVIDERS EVALUATING CHILDREN PRESENTING WITH FEVER IN KENYA

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HIGH PREVALENCE OF PARASITIC INFECTIONS AMONG RECENT IMMIGRANTS IN CHICAGO

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THE MHC CLASS I CHAIN-RELATED MOLECULE A (MICA) 129 METHIONINE/VALINE DIMORPHISM ASSOCIATED WITH CHAGASIC MEGACOLON IN BOLIVIA

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Walter Taylor¹, Rithea Leang², Htee Khu Naw¹, Mark Debackere³, Rupam Tripura¹, Ty Soy⁴, Say Chy⁴, Neeraj Kak³, Philippe Buchy⁶, Arnaud Tarantola⁶, Didier Menard⁶, Arantxa Roca-Feltrer⁷, Richard Fairhurst⁸, Sim Kheng², Sinoun Muth², Song Ngak⁹, Arjen Dondorp¹, Nicholas White¹⁰, Mavuto Mukaka¹
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Julie Akame¹, Assumpta Lucienne Bella², Georges Nko'ayissi², Godefroy Koki³, Emilienne Epee², Rebecca Djao², Henri MOUNGUI¹, Yannick Nkoumou¹, Ibrahim Mallam Salli⁴, Yaobi Zhang⁵, Awa Dieng⁵, Whitney Goldman⁶

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A DELPHI CONSULTATION TO ASSESS INDICATORS OF READINESS TO PROVIDE QUALITY HEALTH FACILITY-BASED LYMPHEDEMA MANAGEMENT SERVICES

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REEXAMINATION OF AREAS WITH PERSISTENT LYMPHATIC FILARIASIS 9 YEARS AFTER CESSATION OF MASS DRUG ADMINISTRATION IN SRI LANKA

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Martin Walker¹, Julia B. Halder¹, Kwablah Awadzi², Nicolas O. Opoku², Simon K. Attah³, Annette C. Kuesel⁴, Maria-Gloria Basáñez¹

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Isabelle Pearson, **Julia B. Halder**, Maria-Gloria Basáñez, Martin Walker
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APPLYING A MOBILE SURVEY TOOL FOR ASSESSING LYMPHATIC FILARIASIS MORBIDITY IN MTWARA MUNICIPAL COUNCIL OF TANZANIA

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MOSQUITO BITE HETEROGENEITY INFLUENCES LYMPHATIC FILARIASIS PREVALENCE, INTENSITY AND OPPORTUNITIES FOR CONTROL

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ONGOING TRANSMISSION OF ONCHOCERCIASIS IN THREE COMMUNITIES IN MASSANGAM DISTRICT IN WEST CAMERON AFTER 18 YEARS OF MDA OF IVERMECTIN

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ASSESSING AN IMPORTANT BARRIER TO ONCHOCERCIASIS ELIMINATION: DETERMINANTS AND CHARACTERISTICS OF LOA LOA INFECTION AND INTENSITY IN CAMEROON AND GABON

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LOSS OF CROSS-REACTIVE FILARIAL ANTIGENEMIA IN PERSONS WITH LOIASIS IN CENTRAL CAMEROON

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PREVALENCE OF ANTIBODIES TO WB123 SIX YEARS AFTER ELIMINATION OF LYMPHATIC FILARIASIS AS PUBLIC HEALTH PROBLEM IN TOGO

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Helminths - Nematodes - Filariasis (Other)

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A BIOINFORMATICS APPROACH TO ASSESS PARASITE KINASES AS DRUG TARGETS USING ANTI-CANCER DRUGS

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DEVELOPMENT OF IMMUNOCOMPETENT ANIMAL MODELS FOR SIMULTANEOUS AND SEPARATE TESTING OF DRUGS ON ONCHOCERCA AND LOA LOA MICROFILARIAE, AND ONCHOCERCA ADULT WORMS

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DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION OF NOVEL 7-AMINO PYRAZOLOPYRIMIDINE COMPOUNDS POSSESSING POTENT ANTI-WOLBACHIA ACTIVITY FOR THE TREATMENT OF ONCHOCERCIASIS AND LYMPHATIC FILARIASIS

Paul McGillan¹, Neil G. Berry¹, David W. Hong¹, Andy Cassidy², Rachel Clare², Darren Cook², Kelly Johnston², Stephen Ward², Paul M. O'Neill¹, Mark Taylor²

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ECONOMIC COSTS AND BENEFITS OF SCALING UP DISABILITY PREVENTION FOR LYMPHATIC FILARIASIS ACROSS INDIA

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APPLICATION OF ULTRASONOGRAPHY TO DETECT PERITONEAL FILARIAL DANCE SIGN IN PRECLINICAL RODENT BRUGIA MALAYI MACROFILARICIDAL DRUG SCREENING MODELS

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1114**INVESTIGATING EARLY INFECTION STATUS OF THE FILARIAL PARASITE *BRUGIA MALAYI* IN THE CAT, THE LABORATORY MODEL FOR LYMPHATIC FILARIASIS**

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(ACMCIP Abstract)**1115****CELLSCOPE-LOA: DISTRICT-WIDE DEPLOYMENT OF A POINT OF CARE TOOL FOR THE PREVENTION OF POST IVERMECTIN SERIOUS ADVERSE EVENTS IN LOA LOA ENDEMIC AREAS**

Sebastien Pion¹, Joseph Kamgno², Matthew Bakalar³, Jean Bopda², Cédric Chesnais¹, Mike D'Ambrosio³, Raceline Gonoue Kamkumo², Charles D. Mackenzie⁴, Steve Mbickmen Tchana², Hugues Clotaire Nana Djeunga², Narcisse Ngandjui⁵, Guy Roger Njitchouang², Philippe Nwane², Jules Brice Tchatchueng Mbouga², Samuel Wanji⁵, Amy Klion⁶, Michel Boussinesq¹, Daniel Fletcher², Thomas B. Nutman⁶

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1116**SYNERGY OF ALBENDAZOLE AND RIFAMPICIN COMBINATION THERAPY IN A MURINE INFECTION MODEL OF HUMAN LYMPHATIC FILARIASIS**

Raman Sharma, Joseph D. Turner, Ghaith Al Jayoussi, Hayley E. Tyrer, Joanne Gamble, Laura Hayward, Richard Priestly, Jill Davies, David Waterhouse, Darren A. Cook, Andrew Steven, Kelly L. Johnston, Louise Ford, Stephen A. Ward, Mark J. Taylor

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1117**FACTORS PREDICTING TRANSMISSION ASSESSMENT SURVEY OUTCOMES FOR LYMPHATIC FILARIASIS**

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1118**THREE-DIMENSIONAL VISUALIZATION OF THE INTERNAL ARRANGEMENT OF ONCHOCERCAL (*ONCHOCERCA VOLVULUS*) NODULES USING HIGH-RESOLUTION MAGNETIC RESONANCE IMAGING**

Maída Cardoso¹, Cédric B. Chesnais², Sébastien D. Pion², Michel Boussinesq², Frédéric Ben Naïm³, Christophe Goze-Bac¹, Michel Zanca⁴

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1119**IDENTIFICATION OF NEW MACROFILARICIDAL COMPOUNDS FOR TREATMENT OF ONCHOCERCIASIS**

Marc P. Hübner¹, Achim Hoerauf¹, Simon Townson², Suzanne Gokool², Coralie Martin³, Agnieszka Chojnowski⁴, Tamara Kreiss⁴, Monika Prorok⁴, John Siekierka⁴, Jerome Zeldis⁵, Stacie Canan⁶, Vikram Khetani⁵, Ivan Scandal⁷, Natalie A. Hawryluk⁶

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1120**COMPARISON OF THE ONCHOCERCIASIS OV16 IGG4 RAPID TEST AND OV16 ELISA AMONG CHILDREN IN TOGO: EXPERIENCES WITH A NEW SURVEILLANCE TOOL**

Rachel Bronzan¹, Adjaho Koba², Kossi Komlan³, Kossi Yakpa², Allison Golden⁴, Koffi Padjoudoum², Potchoziou Karabou², Efoe Sossou², Koffi S. Sognikin², Ameyo Dorkenoo⁵

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Helminths - Nematodes - Intestinal Nematodes**1121****DESIGN AND EVALUATION OF A HEALTH EDUCATIONAL BOARD GAME FOR THE CONTROL OF SOIL-TRANSMITTED HELMINTHIASIS AMONG PRIMARY SCHOOL CHILDREN IN ABEOKUTA, NIGERIA**

Uwemedimo F. Ekpo, Dorcas B. Olabinke, Bolanle Akeredolu-Ale, Gabriel A. Dedeke

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1122**RISK FACTORS ASSOCIATED WITH PREDISPOSITION TO SOIL-TRANSMITTED HELMINTH INFECTION IN SOUTHERN MYANMAR**

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1123**IMPLEMENTATION AND EVALUATION OF A QUALITY AND SAFETY TOOL FOR AMBULATORY STRONGYLOIDIASIS PATIENTS AT HIGH RISK OF ADVERSE OUTCOME**

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Tuesday
November 15

1124**STRONGYLOIDIASIS IN ONTARIO: INFORMING THE DIAGNOSTIC EVALUATION BY ESTABLISHING THE NUMBER NEEDED TO EXAMINE (NNE)****Michelle Dao Dong**¹, Michael Klownik², Nessikha Karsenti³, Omar Mourad³, Rachel Lau⁴, Filip Ralevski⁴, Karamjit Cheema⁴, Andrea K. Boggild³¹University of Western Ontario, London, ON, Canada, ²McMaster University, Hamilton, ON, Canada, ³University of Toronto, Toronto, ON, Canada, ⁴Public Health Ontario Laboratories, Toronto, ON, Canada

1125**EOSINOPHILIA, ANEMIA AND INTESTINAL PARASITES IN CHILDREN FROM RURAL COMMUNITIES OF VENEZUELA****Gladymar Perez**

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1126**PREVALENCE OF STH AT A COASTAL AREA IN INDIA - ROLE OF STUDENTS' HYGIENE PRACTICES, SCHOOL AND HOME SANITATION FACILITIES****Vinay K. Garg**

National Centre for Disease Control, New Delhi, India

1127**HIGH PREVALENCE RATES OF SOIL-TRANSMITTED HELMINTHS IN CHILDREN WHO RECEIVE MASSIVE DRUG ADMINISTRATION IN A REMOTE AMAZONIAN COMMUNITY IN PERU****Renato A. Errea**¹, George Vasquez-Rios¹, Kevin R. Duque², Diego Siu¹, Maria L. Calderon³, Luciana H. Juarez⁴, Celene Uriol⁴, Claudia R. Rondon³, Rodrigo Gallegos³, Katia P. Baca³, Rosario J. Fabian³, Angelica Terashima¹, Jorge D. Machicado⁵, Frine Samalvides⁶, Luis A. Marcos⁷¹Institute of Tropical Medicine "Alexander von Humboldt" - Universidad Peruana Cayetano Heredia, Lima, Peru, ²Department of Microbiology and Center for Global Health - Universidad Peruana Cayetano Heredia, Lima, Peru, ³Facultad de Medicina "Alberto Hurtado" - Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Sociedad Científica de Estudiantes de Medicina Cayetano Heredia - Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁶Hospital Cayetano Heredia, Lima, Peru, ⁷Stony Brook University, Stony Brook, NY, United States

1128**AN AUTOCHTHONOUS CASE OF GNATHOSTOMIASIS ACQUIRED IN QUEENSLAND, AUSTRALIA****Yi dan Lin**, Nicholas Anstey

Royal Darwin Hospital, Darwin, Australia

1129**MODELING COGNITIVE DEFICITS IN SOIL-TRANSMITTED HELMINTHIC INFECTION USING GOLDEN SYRIAN HAMSTER****Samuel Chi-yu Pan**¹, Thanh Nguyen², Yan Hu², Raffi Aroian², Robert Clark¹¹University of California San Diego, San Diego, CA, United States, ²University of Massachusetts Medical School, Worcester, MA, United States

1130**SOIL TRANSMITTED HELMINTHS IN BENIN: EVIDENCE OF COUNTRYWIDE HOOKWORM PREDOMINANCE****Moudachirou Ibikounle**¹, Wilfrid Batcho², **Jean Jacques Tougoue**³, Aboudou Dare⁴, Achille Kabore³¹University Abomey Calavi, Cotonou, Benin, ²Ministry of Health Benin, National NTD Program, Cotonou, Benin, ³RTI International, Washington, DC, United States, ⁴RTI International, Cotonou, Benin

1131**REPEATED ROUNDS OF MASS DEWORMING ADMINISTRATION STILL LEAVE HOUSEHOLD CLUSTERING OF SOIL-TRANSMITTED HELMINTH INFECTIONS****Rita G. Oliveira**¹, Alice V. Easton¹, Jimmy H. Kihara², Cassian Mwatele², Sammy M. Njenga², Charles S. Mwandawiro², Poppy H. Lamberton³, Simon J. Brooker⁴, Roy M. Anderson¹¹Imperial College London, London, United Kingdom, ²Kenya Medical Research Institute, Nairobi, Kenya, ³University of Glasgow, Glasgow, United Kingdom, ⁴Bill & Melinda Gates Foundation, Seattle, WA, United States

1132**UNDERSTANDING THE EPIDEMIOLOGY OF HOOKWORM INFECTION IN A LOW-TRANSMISSION SETTING IN SOUTHERN INDIA: ANALYSIS OF DATA FROM A CLUSTER-RANDOMIZED MASS DEWORMING TRIAL****Rajiv Sarkar**¹, James E. Truscott², Vasanthakumar Veluswamy¹, Sheela Roy¹, Anuradha Rose¹, Rajan Srinivasan¹, Venkata R. Mohan¹, Vinohar Balraj¹, Jayaprakash Muliyl¹, Gagandeep Kang¹, Roy M. Anderson²¹Christian Medical College, Vellore, India, ²Imperial College London, London, United Kingdom

1133**MODELLING THE EFFECT OF PATTERNS OF ADHERENCE AND NON-ADHERENCE TO TREATMENT IN PURSUIT OF HELMINTH ELIMINATION BY MASS DRUG ADMINISTRATION****Sam H. Farrell**

Imperial College London, London, United Kingdom

1134**TO WHAT EXTENT IS PREVENTIVE CHEMOTHERAPY FOR SOIL-TRANSMITTED HELMINTHIASIS 'PRO-POOR'? EVIDENCE FROM THE 2013 DEMOGRAPHIC AND HEALTH SURVEY, NIGERIA****Cameron Seider**¹, Katherine Gass², Jedidiah Snyder³, Nathan C. Lo⁴, David G. Addiss³¹George Washington University, Washington, DC, United States, ²NTD Support Center - Task Force for Global Health, Decatur, GA, United States, ³Children Without Worms - Task Force for Global Health, Decatur, GA, United States, ⁴Division of Infectious Diseases and Geographic Medicine, Stanford University School of Medicine, Stanford, CA, United States

1135**THE SECOND GLOBAL NGO DEWORMING INVENTORY: ASSESSING SOIL-TRANSMITTED HELMINTHIASES TREATMENT REPORTING****Jedidiah S. Snyder**¹, Alexei Mikhailov², Alexander Jones¹, Pamela Mbabazi², David Addiss¹¹Children Without Worms - Task Force for Global Health, Decatur, GA, United States, ²World Health Organization, Geneva, Switzerland

1136**GUIDANCE IN DESIGNING SURVEYS FOR MONITORING SURVEYS FOR MONITORING THE PROGRESS OF SCHOOL-BASED DEWORMING PROGRAMS TO CONTROL SOIL-TRANSMITTED HELMINTHIASIS****Bruno Levecke**¹, Aklilu H. Ghebretinsae¹, Roy M. Anderson², Dirk Berkvens³, Johnny Vlaminc¹, Brecht Devleeschauwer⁴, Niko Speybroeck⁵, Jozef Vercruyse¹, Stefan Van Aelst⁶¹Ghent University, Merelbeke, Belgium, ²Imperial College, London, United Kingdom, ³Institute of Tropical Medicine, Antwerp, Belgium, ⁴Scientific Institute of Public Health, Brussels, Belgium, ⁵Université Catholique de Louvain, Brussels, Belgium, ⁶KU Leuven - University of Leuven/Ghent University, Leuven/Ghent, Belgium

1137**IMPACT OF HELMINTH INFECTIONS DURING PREGNANCY ON HUMORAL VACCINE IMMUNOGENICITY IN INFANTS**

Meral Esen¹, Josiane Honkpehedji², Sina Brückner³, Vera Kühne³, Esther Askani³, Wiebke Lessmann³, Johanna Hass³, Marguerite Massinga Loembe⁴, Sonja Killinger³, Mohammed Duali², Benjamin Mordmüller¹, Bertrand Lell¹, Peter G. Kremsner¹, Akim Ayola Adegniko¹

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HIV and Tropical Co-Infection**1138****INTESTINAL PARASITIC INFECTIONS IN HIV INFECTED AND NON-INFECTED PATIENTS IN A HIGH HIV PREVALENCE REGION, ADAMAOUA-CAMEROON**

Celine N. Nkenfou¹, Sandrine M. Tchameni², Carine N. Nguéfeu³, Gabriel Kengne², William Estrin⁴

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1139**OLDER AND FORGOTTEN; SEXUAL BEHAVIOR AND PERCEIVED HEALTH STATUS AMONG HIV POSITIVE AND NEGATIVE MENOPAUSAL WOMEN IN NIGERIA**

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1140**PREVALENCE OF PREECLAMPSIA AMONG HIV-POSITIVE PREGNANT WOMEN AS COMPARED TO HIV-NEGATIVE WOMEN IN IBADAN**

Richard O. Olayide, Timothy A. Oluwasola, Olubukola A. Adesina
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1141**HTLV AND HIV CO-INFECTION AMONG KEY POPULATIONS, DOMINICAN REPUBLIC**

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1142**FACTORS ASSOCIATED WITH DEFAULTING FROM CARE AMONG ADULTS ON ANTI-RETROVIRAL TREATMENT PROGRAM IN ONDO STATE, NIGERIA, 2015**

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¹University of Ibadan, Ibadan, Nigeria; ²Nigeria Field Epidemiology and Laboratory Training Programme, Abuja, Nigeria

1143**MOLECULAR AND CLINICAL IMMUNE STATUS OF HIV EXPOSED BUT UNINFECTED (HIV EU) INFANTS COMPARED TO CONTROL HIV UNEXPOSED (HIV UU) INFANTS; A COHORT STUDY IN KISUMU DISTRICT, KENYA**

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1144**HIV EPIDEMIOLOGY AND COVERAGE OF HIV HEALTH SERVICES IN GEM COUNTY, SIAYA COUNTY, WESTERN KENYA, 2013-2014**

Barbara K. Burmen, Kennedy Mutai

Kenya Medical Research Institute Center for Global Health Research, Kisumu, Kenya

1145**USING THE LIVERPOOL HIV ICHART TO PREDICT THE SPECTRUM OF DRUG-DRUG INTERACTIONS IN A COHORT OF HAART- EXPOSED PERSONS LIVING WITH HIV (PLHIV) IN A TREATMENT CENTER IN SOUTH-SOUTH NIGERIA**

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1146**DIAGNOSIS OF TOXOPLASMOSIS REACTIVATION IN HIV PATIENTS IN URINE USING NANOPARTICLE TECHNOLOGY**

Hannah Steinberg¹, Maritza Calderon², Natalie M. Bowman³, Francesca Schiaffino¹, Ruben Magni⁴, Deanna Zhu¹, Edwardo Ticona⁵, Lance Liotta⁴, Robert Gilman¹, Alessandra Luchini⁴, uana Cayetano Heredia The Toxoplasmosis Working Group at Universidad Per

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1147**COULD ACCELERATION TOWARDS GLOBAL 90:90:90 HIV TARGET ALONE END TB BURDEN AMONG UNDIAGNOSED PEOPLE LIVING WITH HIV? A FOUR YEAR PRE- AND POST-ISONIAZID PREVENTIVE THERAPY IMPLEMENTATION COMPARATIVE DATA FROM COMPREHENSIVE HOSPITAL IN NORTHWESTERN NIGERIA**

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Kinetoplastida - Epidemiology (Including *Leishmania* and Trypanosomes)

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THE GENETIC VARIATION WITHIN SUB-SAHARAN POPULATIONS ENDEMIC TO HUMAN AFRICAN TRYPANOSOMIASIS

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EVIDENCE OF AUTOCHTHONOUS CHAGAS DISEASE TRANSMISSION IN SOUTH TEXAS

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PAN-AMERICAN MIGRATION PROMOTES THE SPREAD OF PATHOGENIC *TRYPANOSOMA CRUZI* HYBRID STRAINS

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(ACMCIP Abstract)

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EVIDENCE AND IMPORTANCE OF GENETIC EXCHANGE AMONG FIELD POPULATIONS OF *TRYPANOSOMA CRUZI*

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(ACMCIP Abstract)

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CHAGAS DISEASE IN PREGNANT WOMEN AND SCREENING BY PCR IN NEWBORNS FROM GUANAJUATO, MÉXICO

Lucio Galaviz-Silva, Zinnia J. Molina-Garza, Laura M. Montes-Rincon
Universidad Autonoma de Nuevo Leon, San Nicolas de los Garza, Mexico

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TRYPANOSOMA CRUZI PREVALENCE AND SEROPREVALANCE IN A COHORT OF U.S. SERVICE MEMBERS IN SOUTH TEXAS

Bryant Webber¹, Mary Pawlak¹, Sandra Valtier¹, Candelaria Daniels², Audra Blasi¹, Thomas Cropper¹, Sallie Hall¹, Charla Tully³
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TRANSMISSION DYNAMICS OF VISCERAL LEISHMANIASIS IN THE INDIAN SUBCONTINENT - A SYSTEMATIC LITERATURE REVIEW OF THE ROLE OF ASYMPTOMATIC LEISHMANIAL INFECTION, POST-KALA-AZAR DERMAL LEISHMANIASIS AND RELAPSE RATES

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World Health Organization, Mont-sur-Rolle, Switzerland

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MOLECULAR DETECTION OF *LEISHMANIA (VIANNIA) PANAMENSIS* IN ANTHROPOPHILIC AND ZOOPHILIC SANDFLIES FROM AN ENDEMIC FOCUS OF CUTANEOUS LEISHMANIASIS IN PANAMA

Chystrie A. Rigg¹, Kadir González¹, Anayansi Valderrama¹, Milixa Perea¹, Aracelis Miranda¹, Luis F. Chavez², Nicole Gottdenker³, José E. Calzada¹, Azael Saldaña¹
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EFFECT OF GEOGRAPHICAL DIFFERENCES, *T. CRUZI* INFECTION AND BLOOD MEAL ON MICROBIOME OF *TRITOMA INFESTANS*

Sandra Mendoza Guerrero¹, Katty Borrini Mayor², Renzo S. Salazar Sanchez², Sujata Balasubramanian¹, Carlos Condori Pino², Alexandra C. Willcox¹, Jonathan J. Juliano¹, Steven R. Meshnick¹, Robert H. Gilman³, Michael Z. Levy⁴, Natalie M. Bowman¹
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OUTCOMES OF A COMMUNITY INTERVENTIONAL-EVALUATIVE MODEL FOR NEGLECTED DISEASES IN EAST POKOT, KENYA

Grace Grifferty, Richard Wamai
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PREDICTORS OF CHAGAS INFECTION AMONG INDIGENOUS COMMUNITIES IN THE SIERRA NEVADA DE SANTA MARTA IN COLOMBIA

Gabriel Parra-Henao¹, Kathryn Colborn², Andrés F. Henao-Martínez²
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LONGITUDINAL CHANGES IN VECTOR BORNE DISEASE PREVALENCE IN A UNITED STATES DOG POPULATION

Angela J. Toepp¹, Mandy Larson¹, Tara Grinnage-Pulley¹, Carolyne Bennett¹, Michael Anderson¹, Hailie Fowler¹, Jill Saucier², Jesse Buch², Ramaswamy Chandrashekar², Christine Petersen¹
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(ACMCIP Abstract)

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SERIAL EVALUATIONS OF THE PARASITE LOAD OF *LEISHMANIA (VIANNIA) SPECIES* BY QPCR (QUANTITATIVE POLYMERASE CHAIN REACTION) OF NATURAL INFECTED WILD AND SYNANTHROPIC RODENTS FROM AN ENDEMIC AREA OF SOUTH FOREST ZONE OF PERNAMBUCO, BRAZIL

J. F. Marinho-Junior¹, J. F. Lima¹, L. P. Brito¹, A. W. Carvalho¹, F. G. Carvalho¹, M. P. Cavalcanti¹, J. J. Shaw², O. Courtenay³, S. Brandão-Filho¹
¹Centro de Pesquisas Aggeu Magalhães, Recife, Brazil, ²Instituto de Ciências Biológicas, Sao Paulo, Brazil, ³Warwick University, Coventry, United Kingdom

1161**ESTIMATING THE COSTS AND COST-EFFECTIVENESS OF EARLY DIAGNOSIS AND TREATMENT OF CHAGAS DISEASE IN COLOMBIA**Zulma M. Cucunubá¹, Elisa Sicuri¹, Diana Díaz², Maria-Gloria Basáñez¹, Pierre Nouvellet¹, Lesong Conteh¹¹Imperial College London, London, United Kingdom, ²Red Chagas Colombia, Bogotá, Colombia**1162****UNDERSTANDING LONG-TERM CYCLES OF VISCERAL LEISHMANIASIS IN BIHAR**Rinki M. Deb, Michelle C. Stanton, Geraldine M. Foster, Michael C. Coleman
Liverpool School of Tropical Medicine, Liverpool, United Kingdom**1163****CHAGAS DISEASE PREVALENCE AND RISK FACTORS IN WORKING DOGS ALONG THE TEXAS-MEXICO BORDER**Alyssa Meyers¹, Marvin Meinders², Sarah Hamer¹¹Department of Veterinary Integrative Biosciences, Texas A&M University, College Station, TX, United States, ²Office of Health Affairs, Department of Homeland Security, Washington, DC, United States**1164****EPIDEMIOLOGICAL EVIDENCE OF CANINE VISCERAL LEISHMANIASIS IN IÑAPARI-PUERTO MALDONADO, PERU, BORDER WITH BRAZIL AND BOLIVIA**Gloria Sonia Minaya - Gomez¹, André Reynaldo Santos Périssé², Fabiano Borges Figueiredo³, Nyshon M. Rojas Palomino¹¹Instituto Nacional de Salud, Lima, Peru, ²Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, ³Escola Nacional de Saúde Pública Sergio Arouca, Rio de Janeiro, Brazil**Pneumonia, Respiratory Infections and Tuberculosis****1165****THE IMPACT OF TEN-VALENT PNEUMOCOCCAL CONJUGATE VACCINE (PCV10) ON *STREPTOCOCCUS PNEUMONIAE* NASOPHARYNGEAL CARRIAGE RATE: PHENOTYPIC AND GENETIC DIVERSITY OF ISOLATES FROM VACCINATED CHILDREN IN ADDIS ABABA, ETHIOPIA**Wondewosen Tsegaye Sime¹, Abraham Aseffa², Sara Browall³, Eva Morfeldt⁴, Yimtubezenash Woldeamanel⁵, Birgitta Henriques-Normark Henriques-Normark³¹Saint Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia, ²Aramuer Hansen Research Institute, Addis Ababa, Ethiopia, ³Karoliniska Institutet, Stockholm, Sweden, ⁴Public Health Agency, Stockholm, Sweden, ⁵Addis Ababa University, Addis Ababa, Ethiopia**1166****ASSESSING THE BURDEN OF STIGMA AMONG TUBERCULOSIS PATIENTS IN A PASTORALIST COMMUNITY IN KENYA**Grace W. Mbuthia¹, Charles Olungah², Tom Ondicho², Henry Nyamogoba¹¹Moi University, Eldoret, Kenya, ²University of Nairobi, Nairobi, Kenya**1167****PREVALENCE OF PNEUMOCOCCAL CARRIAGE AND ANTIMICROBIAL SUSCEPTIBILITY AMONG CHILDREN TARGETED BY VACCINATIONS PROGRAM IN BURKINA FASO**Ouangaoua Soumeiya¹, Issaka Zongo², Yves Daniel Compaore², Halidou Tinto², Daniel Chandramohan³, Jean-Bosco Ouedraogo², Brian Greenwood³¹Centre Muraz, Bobo Dioulasso, Burkina Faso, ²Institut of Research in Health Sciences (IRSS), Bobo Dioulasso, Burkina Faso, ³London School of Hygiene & Tropical Medicine, London, United Kingdom**1168****EFFECT OF OVEREXPRESSION OF *M. TUBERCULOSIS* RPSA PROTEIN IN MOLECULAR MECHANISM OF RESISTANCE TO PYRAZINAMIDE IN *M. SMEGMATIS***

Ricardo Antiparra, Patricia Sheen, Mirko Zimic

Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

1169**TB OR NOT TB? A MODEL FOR INTEGRATING PARAGONIMIASIS SURVEILLANCE AND CONTROL WITH TUBERCULOSIS CONTROL PROGRAM**Vicente Belzario¹, Manuel Jorge¹, Janice V. Ng¹, Myra Mistica¹, Hilton Lam¹, Lenny Joy Rivera², Maria Reiza Anino², John Paul Caesar R. delos Trinos¹¹University of the Philippines Manila, Manila, Philippines, ²Department of Health Regional Office IX, Zamboanga City, Philippines**1171****TUBERCULOSIS OUTBREAK INVESTIGATION IN A COLONY OF AOTUS MONKEYS: DIAGNOSIS, EPIDEMIOLOGY AND CROSS-SECTIONAL RANDOMIZED SCREENING USING ANTIBODY AND WHOLE-BLOOD *IN VITRO* INTERFERON-GAMMA RELEASE TESTING**Nicanor Iii Obaldia¹, Marlon Nuñez², Santiago Montilla², Camilo Marin²¹ICGES/Harvard T.H. Chan School of Public Health, Boston, MA, United States,²Instituto Conmemorativo Gorgas de Estudios de la Salud (ICGES), Panama, Panama**1172****DETERMINATION OF PLASMA LEVELS OF LEVOFLOXACIN BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY FOR USE AT A MULTIDRUG-RESISTANT TUBERCULOSIS HOSPITAL IN TANZANIA**

Andrew Ebers

University of Virginia Department of Infectious Disease, Charlottesville, VA, United States

1173**MOLECULAR CHARACTERIZATION OF CIRCULATING STRAINS OF INFLUENZA A BETWEEN 2014-2015 IN EGYPT**Ehab A. Ayoub¹, Mustafa Abd AlAziz¹, Nirvana N. Yassa¹, Samir El-Refaa², Mohamed Genedy², Amr Kandil², Gabriel Defang¹¹U.S Naval Medical Research Unit - 3, Cairo, Egypt, ²Ministry of Health and Population, Cairo, Egypt**1174****UNDERSTANDING THE IMMUNE RESPONSE TO *S. PNEUMONIAE* FROM VACCINATION AND CARRIAGE ON A PROTEOME SCALE**Joseph J. Campo¹, Nicholas J. Croucher², Paul Turner³, Andrea Tate⁴, Tim Le¹, Jozelyn Pablo¹, Chris Hung¹, Andy Teng¹, William P. Hanage⁵, Marc Lipsitch⁵, David Goldblatt⁶, Mark Alderson⁴, Xiaowu Liang¹¹Antigen Discovery, Inc., Irvine, CA, United States, ²Department of Infectious Disease Epidemiology, Imperial College London, London, United Kingdom, ³Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom, ⁴PATH, Seattle, WA, United States, ⁵Center for Communicable Disease Dynamics, Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, United States, ⁶Immunobiology Unit, Institute of Child Health, University College London, London, United Kingdom

1175**EXPANSION AND EVALUATION OF TUBERCULOSIS MICROSCOPIC-OBSERVATION DRUG-SUSCEPTIBILITY ASSAY (TB-MODS) IN EGYPT, 2014-2015**Hoda Mansour¹, A. Hegazy², Mostafa Maroof¹, Erik J. Reeves³¹U.S. Naval Medical Research Unit - 3, Cairo, Egypt, ²Ministry of Health and Population, Cairo, Egypt, ³Centers for Disease Control and Prevention, Cairo, Egypt

**Trematodes - Schistosomiasis -
Epidemiology, Diagnosis and Treatment**

1176**THE SPATIAL-TEMPORAL DISTRIBUTION OF ONCOMELANIA HUPENSIS ALONG YANGTZE RIVER AFTER IMPLEMENTATION OF AN INTEGRATED CONTROL STRATEGY IN JIANGSU, P.R. CHINA**

Jian He, Wei Li, Jian feng Zhang, Liang Shi, Feng Wu, Kun Yang

Jiangsu Institute of Parasitic Disease, WuXi, China

1177**THE SEROLOGICAL DIAGNOSIS METHODS OF SCHISTOSOMIASIS AT DIFFERENT PREVALENCE: A META-ANALYSIS**

Yao Xin Wang

Jiangsu Institute of Parasitic Diseases, Wuxi, China

1178**A PILOT STUDY ON HUMAN SCHISTOSOMIASIS IN A RURAL COMMUNITY OF FIANGA, REPUBLIC OF CHAD**

Romuald Isaka Kamwa Ngassam

University of Maroua, Maroua, Cameroon

1179**EFFICACY AND DRUG ACTION MECHANISM OF ARTESUNATE AND A SYNTHETIC ENDOPEROXIDE COMPOUND N-89, AGAINST ADULT STAGE SCHISTOSOMA MANSONI**Emmanuel A. Blay¹, Masafumi Yamabe¹, Reiko Shimogawara¹, Akina Hino¹, Hye-Sook Kim², Irene Ayi³, Takashi Kumagai¹, Nobuo Ohta¹¹Tokyo Medical and Dental University, Tokyo, Japan, ²Okayama University, Okayama, Japan, ³Noguchi Memorial Institute for Medical Research, Accra, Ghana

(ACMCIP Abstract)

1180**DRUG DISCOVERY: IN VITRO EVALUATION OF EXTRACTS FROM MEDICINAL PLANT BALANITES AEGYPTIACA (LINN) DEL FOR ANTI-SCHISTOSOMA CERCARIAL PROPERTIES**Dzidzo Yirenya-Tawiah¹, Daniel Boamah², Daniel Nukpezah¹, Kwabena M. Bosompem³, Christian Gordon¹, William K. Anyan¹, Mark Ofosuhen³, Mabel D. Tetteh³, Francis Glah⁴, Anim Amposah¹¹Institute for Environment and Sanitation Studies. University of Ghana, Legon, Accra, Ghana, ²Center for Plants Medicine Research, Mampong, Ghana, Mampong, Ghana, ³Noguchi Memorial Institute for Medical Research. University of Ghana, Legon, Accra, Ghana, ⁴Department of Science Laboratory Technology, Accra Polytechnic, Accra, Ghana

1181**OUTBREAK OF URINARY SCHISTOSOMIASIS IN A SCHOOL FOR MIGRANT CHILDREN, GYALLESU WARD, ZARIA, KADUNA STATE, NIGERIA. JANUARY 1ST-MAY 15TH, 2015**Aishatu Mamie Sadiq¹, Anthony Suleiman¹, Aisha Abubakar², Patrick Nguku¹¹Nigeria Field Epidemiology and Laboratory Training Programme, Abuja, Nigeria, ²Department of Community Medicine, Ahmadu Bello University, Zaria, Kaduna State, Kaduna, Nigeria

1182**ASSESSMENT OF THREE SCHISTOSOMIASIS ENDEMIC AREAS USING KATO-KATZ TECHNIQUE AND ENZYME-LINKED IMMUNOSORBENT ASSAY (ELISA) ANTIGEN AND ANTIBODY TESTS**Chiqui de Veyra¹, Vicente Belizario Jr.², Alice Alma Bungay³, Glenn Sia Su⁴, Jana Denise Lacuna¹¹Neglected Tropical Diseases Study Group, National Institutes of Health, University of the Philippines Manila, Manila, Philippines, ²Department of Parasitology, College of Public Health, University of the Philippines Manila, Manila, Philippines, ³Department of Medical Microbiology, College of Public Health, University of the Philippines Manila, Manila, Philippines, ⁴Department of Biology, College of Arts and Sciences, University of the Philippines Manila, Manila, Philippines

1183**DETERMINING THE IMPACT OF SCHISTOSOMA MANSONI INFECTION ON PUBLIC HEALTH IN A HIGH PREVALENCE REGION IN REMOTE MADAGASCAR**Stephen Spencer¹, James Penney², Cortland Linder², Hannah Russell², Anthony Howe², Andriamahitsambatra Rakotomampianina³, Anjara Nandimbiniaina³, Alain Rahetilahy⁴¹East Lancashire Hospitals NHS Trust, Blackburn, United Kingdom, ²The University of Manchester, Manchester, United Kingdom, ³The University of Antananarivo, Antananarivo, Madagascar, ⁴Ministère de la Santé Publique, Madagascar, Antananarivo, Madagascar

1184**EVOLUTION OF IMMUNOLOGICAL MARKERS OF INFECTION WITH SCHISTOSOMA MANSONI IN PATIENTS TREATED WITH PRAZIQUANTEL IN THE KOU VALLEY (BURKINA FASO)**

Nina Gouba, Jean Bosco Ouedraogo, Sorgho Hermann

Institut de recherche en science de la santé DRO- Bobo-Dioulasso, Bobo-Dioulasso, Burkina Faso

(ACMCIP Abstract)

1185**RELIABILITY OF COMMUNITY HEALTH WORKER REPORTED TREATMENT COVERAGE FOR SCHISTOSOMIASIS IN WESTERN KENYA-THE SCHISTOSOMIASIS CONSORTIUM FOR OPERATIONAL RESEARCH AND EVALUATION PROJECT**

Rosemary Musuva

Kenya Medical Research Institute, Kisumu, Kenya

1186**MODELING THE WITHIN-HOST DYNAMICS OF SCHISTOSOMA MANSONI: THE CONSEQUENCES OF INCONSISTENT TREATMENT EFFICACY FOR DISEASE CONTROL**

Larissa Anderson

University of New Mexico, Albuquerque, NM, United States

1187**SYSTEMATIC REVIEW OF ANTISCHISTOSOMAL TREATMENT EFFICACY STUDIES AND THE SIGNIFICANCE OF INDIVIDUAL-LEVEL PARTICIPANT DATA FOR META-ANALYSES**Amélie M. Julé¹, Julia B. Halder², Michel Vaillant³, Maria-Gloria Basáñez², Trudie A. Lang¹, Martin Walker², Piero L. Olliaro⁴¹Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom, ²Department of Infectious Disease Epidemiology and London Centre for Neglected Tropical Disease Research, Imperial College, London, United Kingdom, ³Competence Center in Methodology and Statistics, Luxembourg Institute of Health, Luxembourg, Luxembourg, ⁴UNICEF/UNDP/World Bank/World Health Organization Special Programme on Research and Training in Tropical Diseases (TDR), World Health Organization, Geneva, Switzerland

Water, Sanitation, Hygiene and Environmental Health

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OUTBREAK OF GASTROENTERITIS ASSOCIATED WITH BORE WELL WATER - GANESHPUR VILLAGE, BIDAR DISTRICT, KARNATAKA STATE, INDIA, 2015

Sree Kalpana Mohan Kumar¹, Bhavani Gopinath², Samir V. Sodha¹, Manoj Murrhekar², Prakash Kumar³, Doddamallappa Ramanna³, Jabbar M.A.⁴, Ningaganouda N. Biradar⁴, Pallavi Fattepurkur⁵, Sathish S.⁵, Aakash Shrivastava¹, Agarwal C.S.¹, Srinivas Venkatesh¹

¹National Center for Disease Control, Delhi, India, ²National Institute of Epidemiology, Chennai, India, ³Integrated Disease Surveillance Project, Bangalore, India, ⁴District Surveillance Unit, Bidar, India, ⁵Bidar Institute of Medical Sciences, Bidar, India

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QUANTITATIVE ASSESSMENT OF EXPOSURE TO FECAL CONTAMINATION FOR YOUNG CHILDREN IN A CROWDED, LOW-INCOME URBAN ENVIRONMENT IN THE SANIPATH STUDY OF ACCRA, GHANA

Yuke Wang¹, Christine L. Moe¹, Clair Null², Suraja J. Raj¹, Kelly K. Baker³, Katharine A. Robb¹, Habib Yakubu¹, Joseph A. Ampofo⁴, Nii Wellington⁵, Matthew Freeman¹, George Armah⁶, Heather E. Reese¹, Dorothy Peparh⁷, Peter FM Teunis⁸

¹Emory University, Atlanta, GA, United States, ²Mathematica Policy Research, Washington, DC, United States, ³The University of Iowa, Iowa City, IA, United States, ⁴Water Research Institute (WRI), Council for Scientific and Industrial Research (CSIR), Accra, Ghana, ⁵Training Research and Networking for Development (TREND Group), Accra, Ghana, ⁶University of Ghana - Legon, Accra, Ghana, ⁷London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁸Centre for Infectious Disease Control (RIVM), Utrecht, Netherlands

1190

OBSERVATIONAL AND LABORATORY HYGIENIC ANALYSIS OF RESTAURANTS IN IQUITOS, PERU

Olivia Munizza¹, Ivana Marji¹, Colin Andrews¹, Mona Lotfipour¹, Andrew Rogers¹, Ricardo Abadie², Rosa Burga², Claudio Rocha², Hamilton Tilley², David Craft¹

¹Pennsylvania State University College of Medicine, Hershey, PA, United States, ²U.S. Naval Medical Research Unit - 6, Lima, Peru

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LATRINE LEARNING: USING CONDITIONAL INFERENCE TREES TO EXPLORE HOW LATRINE CONDITIONS CAN PREDICT LATRINE USE IN RURAL BANGLADESH

Andrew Nute¹, Maryann G. Delea², Katherine Gass³, Corey Nagel⁴, Thomas Clasen¹

¹Rollins School of Public Health at Emory University, Atlanta, GA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³The Task Force for Global Health, Atlanta, GA, United States, ⁴Oregon Health & Science University, Portland, OR, United States

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WOMEN AND WATER USE IN THE EASTERN REGION OF GHANA: A QUALITATIVE APPROACH

Liliana Schmitt

Tufts University, Medford, MA, United States

1193

IDENTIFICATION OF CAUSAL PATHWAYS DETERMINING THE RELATIONSHIP BETWEEN PATHOGEN-SPECIFIC INFECTION AND IMPAIRED GROWTH AMONG CHILDREN < 59 MONTHS IN MIRZAPUR, BANGLADESH

Kurt Z. Long¹, Abu. Faruque², Sumon Kumar Das², Shah Nawaz Ahmed², James P. Nataro³, Dilruba Nasrin⁴, Karen Kotloff⁵, Myron M. Levine⁵

¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³School of

Medicine, University of Virginia, Charlottesville, VA, United States, ⁴Pediatrics, Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD, United States, ⁵Departments of Medicine and Pediatrics, Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD, United States

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HIGH PREVALENCE OF BLASTOCYTIS SP IN POPULATION LIVING IN URBAN AREAS OF GABON

Denise Patricia Mawili Mboumba, Noé Patrick M'Bondoukwe, Fernande Manga, Marielle Karine Bouyou Akoté

Faculty of Medicine, Libreville, Gabon

1195

FORMATIVE RESEARCH TO INFORM DESIGN OF A BEHAVIOR CHANGE INTERVENTION FOR THE "F" AND "E" COMPONENTS OF THE SAFE STRATEGY FOR TRACHOMA CONTROL IN OROMIA, ETHIOPIA

Katie Greenland¹, Sian White¹, Nazif Jemal², Matthew Burton¹, Wondu Alemayehu Gebremichael³

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Fred Hollows Foundation Ethiopia, Addis Ababa, Ethiopia, ³Berhan Public Health and Eye Care Consultancy, Addis Ababa, Ethiopia

1196

INCORPORATING WASH INDICATORS INTO NATIONAL CONTROL PROGRAM SURVEYS FOR SCHISTOSOMIASIS AND STH IN MADAGASCAR

Clara F. Rasoamananjaha¹, Neerav A. Dhanani², Alain M. Rahetilahy¹, Bruno Ranjatoarivony³, Luciano Andriamaro⁴, Samuel H. Andrianarisoa⁵, Peter M. Jourdan⁶

¹Ministry of Public Health, Antananarivo, Madagascar, ²Schistosomiasis Control Initiative, London, United Kingdom, ³Ministry of National Education, Antananarivo, Madagascar, ⁴Réseau International Schistosomose Environnement Aménagement et Lutte, Antananarivo, Madagascar, ⁵World Health Organization, Antananarivo, Madagascar, ⁶Natural History Museum, London, United Kingdom

1197

ESTIMATING THE GLOBAL RISK OF DIARRHEAL DISEASE ATTRIBUTABLE TO INTERMITTENT WATER SUPPLIES

Aaron W. Bivins, Trent Sumner, Joseph Brown

Georgia Institute of Technology, Atlanta, GA, United States

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IMPACT OF COMMUNITY HEALTH CLUBS ON DIARRHEA, ANTHROPOMETRY AND WATER QUALITY IN WESTERN RWANDA

Sheela S. Sinharoy¹, Ronald Wendt², Leodomir Mfura³, Wolf-Peter Schmidt⁴, James Habyarimana⁵, Thomas F. Clasen¹

¹Emory University, Atlanta, GA, United States, ²Innovations for Poverty Action, New Haven, CT, United States, ³Innovations for Poverty Action, Kigali, Rwanda, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁵Georgetown University, Washington, DC, United States

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THE ROLE OF PUBLIC-PRIVATE PARTNERSHIPS FOR NEGLECTED TROPICAL DISEASES (NTDS) PREVENTION AND CONTROL: THE SUPER SCHOOL OF FIVE TRACHOMA PROGRAM

Beatrice Wasunna¹, Sarah Maiywa¹, Peter Otinda¹, Stacie June², Myriam Sidibe³, Elizabeth Owuor-Oyugi¹, Geordie Woods⁴

¹Sightsavers, Nairobi, Kenya, ²Unilever, London, United Kingdom, ³Unilever, Nairobi, Kenya, ⁴Sightsavers, New Orleans, LA, United States

1200

RELATIONSHIP OF INFANT DIET TO CHILDHOOD HEALTH: ROUTES OF PARASITIC INFECTIONS FROM CONTAMINATED WEANING FOODS

James R. Palmieri, Susan L. Meacham, Jenna Warehime, Sarah Stokes
Virginia College of Osteopathic Medicine, Blacksburg, VA, United States

Late Breaker Abstract Session 80

Late Breakers in Basic Science/Molecular Biology

Marriott - Imperial A

Tuesday, November 15, 12:15 p.m. - 1:30 p.m.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Late Breaker Abstract Presentation Schedule booklet in your registration packet for the presentation schedule.

CHAIR

Gregory D. Ebel
Colorado State University, Fort Collins, CO, United States

Naomi Forrester
University of Texas Medical Branch, Galveston, TX, United States

Meet the Professors 81

Meet the Professors B: Enigmatic and Teaching Cases

Marriott - Room M103/M104/M105

Tuesday, November 15, 12:15 p.m. - 1:30 p.m.

Students and trainees are especially encouraged to attend these interactive sessions, which are open to all meeting attendees. The speakers will present a clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose.

CHAIR

David R. Boulware
University of Minnesota, Minneapolis, MN, United States

PRESENTER

Tom Chiller
Centers for Disease Control and Prevention, Atlanta, GA, United States

CTropMed® Exam Executive Committee Meeting

Marriott - Room M108

Tuesday, November 15, 12:15 p.m. - 1:30 p.m.

Poster Session B Viewing

Hilton - Grand Ballroom and Grand Salon

Tuesday, November 15, 1:45 p.m. - 7 p.m.

Symposium 82

Congenital Vector-Borne Diseases and Early Child Neurodevelopmental Outcomes

Marriott - Imperial A

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

The early part of the 21st century has seen an unparalleled burden of emerging infectious disease outbreaks: West Nile virus across North America, severe acute respiratory syndrome and avian influenza in Southeast Asia, chikungunya virus in Europe and the Americas, Middle East Respiratory syndrome coronavirus, and Ebola virus in western Africa. The latest in this series of epidemic events is Zika virus (ZIKV), a flavivirus spreading across the Americas. Among these viruses, some have demonstrated a neurotropic potential for causing lifelong developmental consequences. The paradigm is that the earlier a neurovirulent pathogen has an impact on the developmental brain, the more severe the consequences and the related disabilities; however, this paradigm is currently being challenged with new evidence from Zika virus cases. Beyond the perinatal period of transmission, the outcome is related to the clinical form of neuroinvasive disease irrespective of the infectious pathogen, encephalitis causing more harm on neurocognitive functioning, meningitis more sensorineural impairments. Impacts during all stages of brain development can have harmful consequences for the child. This symposium will focus on the consequences of pregnancy-associated malaria and the challenges posed by the transplacental passage of two emerging neurovirulent arboviruses in early infancy, CHIKV and ZIKV. These two viruses will be used as case studies to describe the two common situations of viral vertical transmission, namely perinatal and intrapartum maternal-fetal transmission. The session will begin with an overview of the natural history of normal child neurodevelopment and aberrations during congenital infection, followed by a presentation on the neurodevelopmental evaluation scales and review of the challenges of performing neuropsychological assessment in children of varying ages and stages. The session will discuss new studies that aim to define the extent of neurodevelopmental impairment in children born to mothers with pregnancy-associated malaria, and to delineate the pathways that may lead to neurodevelopmental impairment. The symposium will describe the neurodevelopmental consequences of perinatal chikungunya infection, including two-year and school-age neurocognitive outcome evaluations. The final presenter will share experience in caring for babies with congenital Zika virus infection in Brazil and provide the first data on the early neurodevelopmental consequences of ZIKV-related microcephaly.

CHAIR

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

Patrick Gerardin
CHU Réunion, La ReUnion, French Southern Territories

1:45 p.m.

A FIVE-MINUTE PRIMER ON NORMAL CHILD NEURODEVELOPMENT AND CONGENITAL INFECTION EFFECTS

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

1:55 p.m.

THE NEURODEVELOPMENTAL EVALUATIONS AND OUTCOMES OF CHILDREN WITH CONGENITAL INFECTIONS IN LMICS

Paul Bangirana
Makerere University, Kampala, Uganda

2:15 p.m.

VERTICAL TRANSMISSION OF CHIKUNGUNYA VIRUS AND NEURODEVELOPMENTAL OUTCOMES OF PERINATAL CHIKUNGUNYA

Patrick Gerardin
CHU Reunion, Saint Pierre, French Southern Territories

2:35 p.m.

CARE EXPERIENCE AND EARLY NEURODEVELOPMENTAL CONSEQUENCES OF CONGENITAL ZIKV INFECTIONS AND ZIKV RELATED-MICROCEPHALY

Regina C. Ramos
Hospital Universitario Oswaldo Cruz, Pernambuco, Brazil

2:55 p.m.

PREGNANCY-ASSOCIATED MALARIA AND CHILD NEURODEVELOPMENT: WHAT WE KNOW, WHAT WE DON'T KNOW

Chandy C. John
Indiana University, Indianapolis, IN, United States

Scientific Session 83

Bacteriology: Diarrhea - Determinants and Prevention

Marriott - Imperial B

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

CHAIR

Jason R. Andrews
Stanford University School of Medicine, Stanford, CA, United States

Anna Bowen
Centers for Disease Control and Prevention, Atlanta, GA, United States

1:45 p.m.

1201

DETERMINANTS OF LIFE-THREATENING DIARRHEAL DISEASE AT HOSPITAL PRESENTATION: EVIDENCE FROM 22 YEARS OF ADMISSIONS IN BANGLADESH

Jason R. Andrews¹, Daniel T. Leung², Shahnawaz Ahmed², M. a. Malek², Dilruba Ahmed², Yasmin Begum², Firdausi Qadri², Tahmeed Ahmed², A.S.G. Faruque², Eric J. Nelson¹

¹Stanford University School of Medicine, Stanford, CA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

2 p.m.

1202

BISMUTH SUBSALICYLATE REDUCES ANTIMICROBIAL USE AMONG ADULT DIARRHEA PATIENTS IN PAKISTAN: A RANDOMIZED, PLACEBO-CONTROLLED, TRIPLE-MASKED CLINICAL TRIAL

Anna Bowen¹, Mubina Agboatwalla², Adam Pitz³, Jose Brum³, Brian D. Plikaytis⁴
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²HOPE, Karachi, Pakistan, ³Procter & Gamble, Mason, OH, United States, ⁴BioStats Consulting, Jasper, GA, United States

2:15 p.m.

1203

CONTINUED FEEDING DURING DIARRHEA MANAGEMENT AT HOME AND GROWTH FALTERING: SECONDARY DATA ANALYSIS OF THE KENYA GLOBAL ENTERIC MULTICENTER STUDY (GEMS) OF DIARRHEAL DISEASE IN INFANTS AND YOUNG CHILDREN IN DEVELOPING COUNTRIES

Kerris I. Sease¹, Kelly B. Kamm¹, Ciara O'Reilly², Wit Wichaidit¹, Richard Omoro³, Dilruba Nasrin⁴, Karen Kotloff⁴, Tamer H. Farag⁴, Myron M. Levine⁴, Kayla Laserson², Robert F. Breiman⁵, Anna Bowen², Eric D. Mintz², Amy E. Millen¹, Pavani K. Ram¹

¹The State University of New York at Buffalo, Buffalo, NY, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Kenya Medical Research Institute-Center for Global Health Research, Kisumu, Kenya, ⁴University of Maryland, College Park, MD, United States, ⁵Emory University, Atlanta, GA, United States

2:30 p.m.

1204

DISRUPTIONS OF THE HUMAN GUT MICROBIOME DURING DIARRHEA INFECTIONS CAUSED BY ROTAVIRUS AND ENTERO-PATHOTYPES OF ESCHERICHIA COLI

Angela V. Pena Gonzalez¹, Maria J. Soto-Giron¹, Janet K. Hatt², Gabriel Trueba³, William Cevallos⁴, Karen Levy⁵, Konstantinos T. Konstantinidis²

¹School of Biology, Georgia Institute of Technology, Atlanta, GA, United States, ²School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, United States, ³Instituto de Microbiologia, Universidad San Francisco de Quito, Quito, Ecuador, ⁴Centro de Biomedicina, Universidad Central de Ecuador, Quito, Ecuador, ⁵Rollins School of Public Health, Emory University, Atlanta, GA, United States

2:45 p.m.

1205

THE FECAL MICROBIOME ASSOCIATED WITH SMALL INTESTINE BACTERIAL OVERGROWTH IN BANGLADESHI CHILDREN

Jeffrey Donowitz¹, Masud Alam², Rashidul Haque², Beth D. Kirkpatrick³, Mami Taniuchi⁴, Shahria Hafiz Kakon², Bushra Zarin Islam², Sajia Afreen², E. Ross Colgate³, Marya P. Carmolli³, Hardik I. Parikh⁵, Steven Bradley⁵, Nihar U. Sheth⁶, Carol A. Gilchrist⁴, William A. Petri⁴

¹Division of Pediatric Infectious Diseases, Virginia Commonwealth University, Richmond, VA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Department of Medicine and Vaccine Testing Center, The University of Vermont College of Medicine, Burlington, VT, United States, ⁴Division of Infectious Diseases and International Health, University of Virginia, Charlottesville, VA, United States, ⁵Department of Microbiology and Immunology, Virginia Commonwealth University, Richmond, VA, United States, ⁶Center for the Study of Biological Complexity, Virginia Commonwealth University, Richmond, VA, United States

3 p.m.

1206

EVALUATION OF THE TEST-NEGATIVE CASE-CONTROL DESIGN TO ESTIMATE ROTAVIRUS VACCINE EFFECTIVENESS IN LOW-INCOME SETTINGS

Lauren M. Schwartz¹, M. Elizabeth Halloran¹, Ali Rowhani-Rahbar¹, Kathleen M. Neuzil², J. Chris Victor³

¹University of Washington, Seattle, WA, United States, ²University of Maryland, Center for Vaccine Development, Baltimore, MD, United States, ³Center for Vaccine Innovation and Access, PATH, Seattle, WA, United States

3:15 p.m.

1207

A PHASE 1 OPEN-LABEL, DOSE ESCALATING STUDY OF ARTIFICIAL *SHIGELLA FLEXNERI* 2A INVAPLEX ADMINISTERED INTRANASALLY TO HEALTHY, ADULT VOLUNTEERS

Christopher A. Duplessis¹, K. Ross Turbyfill², Chad Porter¹, Ramiro Gutierrez¹, Mark Riddle¹, Tidq Lee¹, Kristen Clarkson², H.E. Peterson², C.R. Stelez², S.C. Sumlin², Amanda Lynen¹, Ed Oaks², Kris Paolino³, Wayne Fornillos³, Robert Kaminski²

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³CTC Walter Reed Army Institute of Research, Silver Spring, MD, United States

Symposium 84

Human Babesiosis: A Neglected Tick-Borne Parasitic Disease

Marriott - Marquis A

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

Babesiosis is a tick-borne disease caused by intraerythrozoic protozoa that is found in temperate zones throughout the world. It is transmitted by hard bodied (*Ixodid*) ticks but also through blood transfusion and perinatally. The highest prevalence of both tick and transfusion-transmitted infection occurs in the United States where *Babesia microti* infection is endemic in the Northeast and upper Midwest. Clinical manifestations range from asymptomatic infection to fulminant disease. The mortality rate is around 20% in the elderly and immunocompromised and in those acquiring the infection through blood transfusion. In most cases, *B. microti* infection causes a febrile, viral-like infection that resolves in a week but is often followed by asymptomatic parasitemia for months, even after treatment. About a quarter of healthy adults experience asymptomatic infection. Blood collected from these apparently healthy but *Babesia*-infected individuals may result in transmission through blood transfusion. There is no FDA-licensed vaccine to ameliorate parasite burden and clinical disease and no laboratory test for diagnosis of acute infection or for screening of blood donors. In spite of the recent availability of the full genome sequence of *B. microti*, there is a scarcity of well-defined, immunodominant *B. microti* antigens for development of diagnostic assays for blood donor screening or for vaccine efficacy studies. There is strong evidence to suggest that global public health burden posed by *B. microti* is increasing and that inadequate attention has been paid to this disease, which is prevalent in both industrialized and developing countries. The primary objective of this symposium is to highlight the public health importance of this neglected infection in the United States and globally. Scientific discussion will focus on advances in *Babesia* biology, ecology, epidemiology, molecular

immunology and pathogenesis, antigen discovery for vaccination and development of diagnostic assays.

CHAIR

Sanjai Kumar

Food and Drug Administration, Silver Spring, MD

Peter J. Krause

Yale School of Public Health and Yale School of Medicine, New Haven, CT, United States

1:45 p.m.

HUMAN BABESIOSIS: AN EMERGING TICK-BORNE INFECTION

Peter J. Krause

Yale School of Public Health and Yale School of Medicine, New Haven, CT, United States

2:10 p.m.

RECENT CHANGES IN THE ECOLOGY OF HUMAN BABESIOSIS: A RESULT OF TRENDS IN THE DEMOGRAPHY OF THE TICK VECTOR OR THE PARASITE

Sam R. Telford

Tufts University, North Grafton, MA, United States

2:35 p.m.

THE RATIONALE FOR AN ANTIBODY-BASED THERAPY IN SEVERE BABESIOSIS

Edouard Vannier

Tufts Medical Center and Tufts University School of Medicine, Boston, MA, United States

3:05 p.m.

ANTIGEN DISCOVERY, DETECTION ASSAYS AND VACCINE STUDIES FOR *BABESIA MICROTI*

Sanjai Kumar

Food and Drug Administration, Silver Spring, MD, United States

Symposium 85

Using Remote Sensing Technology and Models from NASA Satellite in Predicting and Mitigating Outbreaks of Infectious Disease

Marriott - Marquis B

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

The symposium is designed to review progress in the effort to predict and mitigate infectious disease using remote sensing parameters. The speakers will discuss models developed by NASA and their partners for application of the research results for improved prevention and prediction of outbreaks. This session will assist health providers/researchers who need environmental data to study and understand the geographic, environmental and meteorological differences in disease. The session will focus on using satellite remote sensing to fill the gaps of environmental, spatial and temporal data for tracking disease. Satellite earth observations provide a wealth of health applications for the imaginative investigator. The session is directly related to Global Environmental Health Surveillance and will present research results of the remote sensing environmental observations of earth and health applications which can contribute to the tropical medical research in the areas of West Nile Virus, Malaria, Zika, Dengue and Chikungunya virus.

CHAIR

Sue M. Estes
NASA/UAH, Huntsville, AL, United States

Chris Barker
University of California Davis, Davis, CA, United States

1:45 p.m. AN INTRODUCTION OF NASA PUBLIC HEALTH APPLICATIONS AS RELATED TO INFECTIOUS DISEASES USING REMOTE SENSING DATA

John A. Haynes
NASA, Washington, DC, United States

2:05 p.m. CHALLENGES FOR A MALARIA EARLY WARNING SYSTEM IN THE AMAZON

William Pan
Duke University, Durham, NC, United States

2:25 p.m. ENHANCING VECTOR-BORNE DISEASE (WNV AND MALARIA) SURVEILLANCE WITH SATELLITE-BASED EARTH OBSERVATIONS

Michael Wimberly
South Dakota State University, Brookings, SD, United States

2:45 p.m. GEOGRAPHIC AND SEASONAL LIMITS FOR ZIKA VIRUS OUTBREAK RISK IN NORTH AMERICA

Chris M. Barker
University of California Davis, Davis, CA, United States

Symposium 86

American Committee on Arthropod-Borne Viruses (ACAV) Symposium I: Annual Business Meeting, Awards and Research Presentations by Previous Awardees

Marriott - Marquis C
Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

The American Committee on Arthropod-Borne Viruses (ACAV) provides a forum for exchange of information among people interested in arbovirus research. This session will include the ACAV business meeting, award presentations and research presentations by ACAV award recipients. These presenters will describe their research on arbovirology and emerging diseases. The session will end with an informal reception designed to encourage new members of our community to interact with fellow arbovirologists and become involved in the ACAV subgroup.

CHAIR

Kathryn A. Hanley
New Mexico State University, Las Cruces, NM

Nikos Vasilakis
University of Texas Medical Branch, Galveston, TX, United States

1:45 p.m. ACAV ANNUAL BUSINESS MEETING - UPDATE ON ACAV BUSINESS

Kathryn Hanley
New Mexico State University, Las Cruces, NM, United States

1:55 p.m. PRESENTATION OF RICHARD M. TAYLOR AWARD

Presented by
Laura D. Kramer
Wadsworth Center, New York State Department of Health, Slingerlands, NY, United States

Presented by
Thomas P. Monath
BioProtection Systems/NewLink Genetics Corp., Deven, MA, United States

2:10 p.m. TRAVEL AWARD LIGHTNING TALKS

2:30 p.m. PRESENTATION OF THE DALRYMPLE/YOUNG AWARD

2:40 p.m. CHARACTERIZATION OF IMMUNE FACTORS OF CHRONIC CHIKUNGUNYA DISEASE

Claire Jane Heath
Stanford University, San Francisco, CA, United States

2:50 p.m. STUDIES OF MARBURG VIRUS TRANSMISSION IN BATS

Amy J. Schuh
Centers for Disease Control and Prevention, Atlanta, GA, United States

3:10 p.m. NETWORKING AND SOCIAL TIME

Symposium 87

Global Call to Action to Increase Coverage of Intermittent Preventive Treatment in Pregnancy: Progress and Lessons Learned

Marriott - Marquis D
Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

The aim of the symposium is to review country progress in sub-Saharan Africa (SSA) in increasing intermittent preventative treatment in pregnancy (IPTp) with sulfadoxine-pyrimethamine (SP). The symposium will expand the knowledge base among Ministries of Health and donors and partners who are working to increase IPTp-SP coverage to address malaria in pregnancy (MiP). Following the release of the World Health Organization's (WHO) 2012 updated policy on IPTp-SP, a number of global stakeholders came together through the Roll Back Malaria-Malaria in Pregnancy Working Group, to elaborate the Global Call to Action: To Increase National Coverage with IPTp of MiP for Immediate Impact. The Call to Action calls upon countries and partners to immediately scale up IPTp-SP to improve health outcomes for mothers and their newborns. Scaling up IPTp-SP across most countries in sub-Saharan Africa remains a critical weapon to prevent the devastating consequences of MiP. However, the low proportion of eligible pregnant women receiving at least one dose of IPTp-SP (52%) and IPTp3-SP (17%) in 2014 is unacceptable. Despite growing parasite resistance to SP in some areas, IPTp-SP remains

a highly cost-effective, life-saving strategy to prevent the adverse effects of MiP in the vast majority of SSA. Completion of the recommended three or more doses of IPTp-SP decreases the incidence of low birthweight (LBW) by 27%, severe maternal anemia by 40% and neonatal mortality by 38%. This symposium will feature presentations from WHO and the President's Malaria Initiative on how they are prioritizing support to scale up MiP interventions including IPTp-SP across SSA. Burkina Faso, Malawi and Tanzania will present and discuss how they were able to dramatically scale up IPTp-SP through a health systems approach that addresses MiP from community to district to national level. In Burkina Faso, IPTp2-SP increased from 54.8% in 2013 to 82.3% nationally in 2015 and IPTp3-SP increased from 13.5% in 2014 to 41.2% nationally in 2015. In Malawi, in targeted project sites across 15 districts, IPTp1 uptake increased from 44% in 2012 to 87% in 2015, while IPT2 increased from 16% to 61% over the same time period. In Tanzania, IPTp2-SP increased from 34% in 2014 to 57% in 2015 and IPTp4-SP was reported at 22% in 225 facilities across 16 districts, in 2015.

CHAIR

Aimee Dickerson

Jhpiego, Baltimore, MD, United States

Elaine Roman

Jhpiego, Baltimore, MD, United States

1:45 p.m.

SUPPORT AND STRATEGIES FOR IPTP SCALE-UP

Julie Gutman

Centers for Disease Control and Prevention, Atlanta, GA, United States

2:05 p.m.

DRAMATIC IPTP COVERAGE INCREASE AS A RESULT OF POLICY CHANGE IN TANZANIA: EXPERIENCE FROM MARA AND KAGERA REGIONS

Frank Chacky

National Malaria Control Program, Dar es Salaam, United Republic of Tanzania

2:25 p.m.

BUILDING CAPACITY THROUGH EDUCATION AND PRACTICE – A STRONG FOUNDATION TO INCREASE IPTP UPTAKE IN BURKINA FASO

Yacouba Savadogo

National Malaria Control Program, Ouagadougou, Burkina Faso

2:45 p.m.

WHAT DID IT TAKE TO EXPAND COVERAGE OF IPTP2 AND 3: EARLY SUCCESSES FROM MALAWI

Doreen Ali

National Malaria Control Program, Lilongwe, Malawi

Scientific Session 88

Integrated Control Measures for Neglected Tropical Diseases

Marriott - Atrium A

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

CHAIR

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

Arianna Means

University of Washington, Seattle, WA, United States

1:45 p.m.

1208

ASSESSMENT OF THE NEEDS FOR THE NEGLECTED TROPICAL DISEASE (NTD), NON-COMMUNICABLE DISEASE (NCD) AND THE EYE HEALTH PROGRAMS IN LIBERIA FOLLOWING THE OUTBREAK OF EBOLA VIRAL DISEASE

Karsor K. Kollie¹, Brent Thomas², Anna Wickenden³, Anthony Bettee¹, Catherine Thomas¹, Marnijina Moore¹, Adoley Sonii⁴, Zeela Zaizay⁵, Ukam Oyene⁶, Francis Kateh¹, Benjamin Koudou², Charles Mackenzie²

¹Ministry of Health, Government of Liberia, Monrovia, Liberia, ²Filarial Programme Support Unit, Liverpool School of Tropical Medicine, Liverpool, United Kingdom,

³effect:hope, Markham, ON, Canada, ⁴Sightsavers, Monrovia, Liberia, ⁵Medical Assistance Programs, Monrovia, Liberia, ⁶World Health Organisation Liberia, Monrovia, Liberia

2 p.m.

1209

EFFECT OF THE NATIONAL SCHISTOSOMIASIS CONTROL PROGRAM ON TAENIA SOLIUM TAENIOSIS AND PORCINE CYSTICERCOSIS IN RURAL COMMUNITIES OF TANZANIA

Uffe C. Braae¹, Pascal Magnussen², Wendy Harrison³, Benedict Ndawi⁴, Faustine Lekule⁵, Maria V. Johansen¹

¹University of Copenhagen, Frederiksberg, Denmark, ²University of Copenhagen, Copenhagen, Denmark, ³Imperial College London, London, United Kingdom, ⁴Bora Professional Consultancy Services, Iringa, United Republic of Tanzania, ⁵Sokoine University of Agriculture, Morogoro, United Republic of Tanzania

2:15 p.m.

1210

USING A DOOR-TO-DOOR MASS DRUG ADMINISTRATION CAMPAIGN TO IDENTIFY TRICHIASIS AND HYDROCELE IN TOGO

Monique Ameyo Dorkenoo¹, Sossinou Awoussi¹, Edmond Sognikin¹, Koffi Ladzekpo², Sefofo Y. Prempe³, Mawèké Tchali⁴, Solime Tchali⁵, Sena A. Tchalla³, Michel Datagni⁶, Anders Seim⁷, Rachel Bronzan⁷, Stephanie A. Richard⁷

¹Togo Ministry of Health, Lomé, Togo, ²Togo Ministry of Health, Sotoboua, Togo, ³CHR Dapaong/Togo Ministry of Health, Dapaong, Togo, ⁴PNEFL/Togo Ministry of Health, Lomé, Togo, ⁵CHR Kara TOMDE, Kara, Togo, ⁶Health & Development International, Lomé, Togo, ⁷Health & Development International, Rockville, MD, United States

2:30 p.m.

1211

PROXY RESPONSES FOR MASS DRUG ADMINISTRATION COVERAGE SURVEYS: THE INDIVIDUALS REQUIRING THEM AND THE POTENTIAL FOR RECALL BIAS

Rini Jose¹, Windtare Roland Bougma², Francois Drabo², Harriet Lwanga³, Square Mkwanda⁴, Edridah Muheki Tukahebwa⁵, Katherine Gass⁶

¹Rollins School of Public Health, Emory University, Atlanta, GA, United States,

²Programme National de Lutte contre l'Onchocercose, Ministère de la Santé, Ouagadougou, Burkina Faso, ³RTI Envision Program, Kampala, Uganda, ⁴Lymphatic Filariasis Elimination Program, Ministry of Health, Lilongwe, Malawi, ⁵Vector Control Division, Ministry of Health, Kampala, Uganda, ⁶Task Force for Global Health, Decatur, GA, United States

2:45 p.m.

1212

FEASIBILITY AND SAFETY OF MASS CO-ADMINISTRATION OF AZITHROMYCIN AND IVERMECTIN MASS DRUG ADMINISTRATION: THE AIM STUDY

Lucia Romani¹, Oliver Sokana², Michael Marks³, Titus Nasi², Handan Wand¹, Margot Whitfeld⁴, Daniel Engelman⁵, John Kaldor¹, Andrew Steer⁵

¹Kirby Institute, Sydney, Australia, ²Ministry of Health, Honiara, Solomon Islands, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴St. Vincent's Hospital, Sydney, Australia, ⁵Murdoch Childrens Research Institute, Melbourne, Australia

3 p.m.

1213

ADDING TSETSE CONTROL TO MEDICAL ACTIVITIES ALLOWS CONTROL OF SLEEPING SICKNESS IN THE MANDOU FOCUS (CHAD)

Jean Baptiste Rayaisse¹, Hissene M. Mahamat², Mallaye Peka³, Mahamat A. Toko³, Justin Darnas³, Guihini M. Brahim², Ali B. Alkatib², Wilfrid Yoni⁴, Inaki Tirados⁵, Fabrice Courtin⁶, Cyrus Nersy², Steve J. Torr⁵, Mike J. Lehane⁵, Idriss O. Alfaroukh², Philippe Solano⁷

¹CIRDES, Bobo - Dioulasso, Burkina Faso, ²Institut de Recherche en Elevage pour le Développement (IREDE), Ndjamena, Chad, ³Programme National de Lutte contre la Trypanosomiase Humaine (PNLTHA), Ndjamena, Chad, ⁴Centre International de Recherche Développement sur l'Elevage en zone Subhumide (CIRDES), Bobo - Dioulasso, Burkina Faso, ⁵Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁶Institut de Recherche pour le Développement, Bouaké, Côte D'Ivoire, ⁷Institut de Recherche pour le Développement, Montpellier, France

3:15 p.m.

1214

THE IMPACT OF MASS DRUG ADMINISTRATION ON REDUCTION OF NTD PREVALENCE IN RWANDA

Corine K. Karema¹, Irene Umulisa¹, Eugene Ruberanziza¹, Jamie Tallant², Warren Lancaster², Noella Umulisa³, Jean Baptiste Mazarati⁴, Alan Fenwick⁵, Agnes Binagwaho⁶

¹Malaria and Other Parasitic Diseases Division, Kigali, Rwanda, ²The END FUND, London, United Kingdom, ³Maternal and Child Survival program/JHIEPGO, Kigali, Rwanda, ⁴Biomedical Services Department-RBC, Ministry of Health, Kigali, Rwanda, ⁵Schistosoma Control Initiative, London, United Kingdom, ⁶Department of Global Health and Social Medicine at Harvard Medical School; Ministry of Health, Kigali, Rwanda

Symposium 89

Clinical Group Symposium I (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH)

Marriott - Atrium B

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

Supported with funding from the International Association for Medical Assistance to Travellers (IAMAT)

This symposium will consist of updates of particular interest to clinicians caring for travelers, including updates on malaria prophylaxis recommendations, immunizations and the CDC Yellow Book, and on the GeoSentinel and Global TravEpiNet research consortia. These updates will be followed by the Marcolongo Lecture. The session will conclude with a networking period with refreshments that will last throughout the break.

CHAIR

Duane R. Hospenthal

University of Texas Health Science Center at San Antonio, San Antonio, TX, United States

John W. Sanders

Wake Forest Baptist Health, Winston-Salem, NC, 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. 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, to coordinate medical services for travelers and to prepare them for their journey. Dr. Marcolongo understood that travelers need comprehensive advice about the health risks and tropical diseases they encounter on trips to increasingly remote and distant destinations. Of particular interest to him was malaria and preventing the unnecessary morbidity and mortality it causes among travelers. Through IAMAT and numerous publications, 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.

MALARIA EPIDEMIOLOGY AND PREVENTION FOR INTERNATIONAL TRAVEL: UPDATE

Katherine R. Tan

Centers for Disease Control and Prevention, Atlanta, GA, United States

2:05 p.m.

CDC TRAVELERS' HEALTH AND YELLOW BOOK: UPDATE

Gary W. Brunette

Centers for Disease Control and Prevention, Atlanta, GA, United States

2:25 p.m.

GEOSENTINEL SURVEILLANCE: UPDATE

Davidson H. Hamer

Boston University School of Public Health, Boston, MA, United States

2:35 p.m.

GLOBAL TRAVELINET: UPDATE

Edward T. Ryan

Massachusetts General Hospital, Boston, MA, United States

2:45 p.m.

**VINCENZO MARCOLONGO MEMORIAL LECTURE:
LEPTOSPIROSIS IN THE TROPICS: THE DIAGNOSTIC
CHALLENGE**



**Suneth Buddhika Agampodi, MBBS, MSc,
MD, MPH, FRSPH**

*Professor in Community Medicine
Department of Community Medicine
Faculty of Medicine and Allied Sciences
Rajarata University of Sri Lanka*

Professor S.B. Agampodi graduated from the Faculty of Medicine, University of Peradeniya

and obtained his Master's and Doctoral degrees from the Post Graduate Institute of Medicine, University of Colombo. In addition, he obtained his Master's in Public Health from Massey University, New Zealand and is currently a fellow of the Royal Society of Public Health, United Kingdom. Professor Agampodi was the founding head of the Department of Community Medicine, Rajarata University of Sri Lanka, and the first professor of the department. He was a visiting assistant professor in the School of Medicine at University of California San Diego in 2011. In 2012 Professor Agampodi founded the Tropical Disease Research Unit and is currently its lead epidemiologist. He served as a Council member of the Sri Lanka Medical Association, Anuradhapura Clinical Society, National Research Council and Sri Lanka Society of Microbiology. He provides technical assistance to many international organizations, including the World Health Organization and International Organization for Migration, and is currently working as the Honorary Chairperson of the Haiti Cholera Research Funding Foundation in Florida. Professor Agampodi's main research interest is in infectious diseases, especially Leptospirosis. He has published over 70 research papers in peer-reviewed journals and has delivered two orations and numerous invited and keynote speeches based on his research. Professor Agampodi is the editor of *Anuradhapura Medical Journal* and associate editor of *BMC Public Health* and *Public Health Action* journals. He is also an editorial board member of the *Journal of Infectious Diseases and Immunology Health System Research Journal*, as well as the *Sri Lankan Journal of Infectious Diseases*.

3:30 p.m. - 4 p.m.

NETWORKING AND SOCIAL TIME

Symposium 90

The Washington, DC Primer: Advocating for R&D Funding — The Who, What, Where, Why and How

Marriott - Room A602

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

CHAIR

Karen A. Goraeski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

Every day, research, program, funding and policy decisions are being made by influential international actors and at the U.S. federal level. Whether you realize it or not, you are directly

or indirectly impacted by these decisions. Unfortunately, the overwhelming majorities of these decision-makers have not been exposed to scientific training or education and as a result, look at these issues through lenses very different than yours. What are the Top 10 Things you need to know about U.S. government funding for the issues that ASTMH cares so deeply about? Who are the key actors? How do you convey the value of your work to those who play a role in increasing or cutting support for the work you do every day? Talking longer or offering more data points is a surefire way to hasten the end of a meeting with policymakers and staffers. What are the Do's and Don'ts? As a whole, the research community is late in thinking and acting like constituents. Learn how to recognize the moment when you know what you are saying is connecting. Listen to the experienced perspectives from the ASTMH President, Executive Director and the ASTMH Washington, DC-based lobbyist. Pick up tips to help avoid unintentional science-speak overload with policymakers (and the media and public).

1:45 p.m.

**GLOBAL HEALTH FUNDING: WHAT A DIFFERENCE
ADVOCACY MAKES**

Jodie Curtis

The District Policy Group, Washington, DC, United States

2:10 p.m.

**ADVOCATING FOR GLOBAL HEALTH R&D POLICIES:
PRACTICAL TIPS FOR HOW TO TALK TO POLICYMAKERS**

Karen A. Goraeski

American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

Jodie Curtis

The District Policy Group, Washington, DC, United States

2:35 p.m.

**WARNING: FAILURE TO BE AN ADVOCATE CAN BE
HAZARDOUS TO YOUR RESEARCH CAREER**

Karen A. Goraeski

American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

3 p.m.

**A SCIENTIST GOES TO CAPITOL HILL: WHY YOU SHOULD,
TOO**

Stephen Higgs

Biosecurity Research Institute, Kansas State University, Manhattan, KS, United States

Scientific Session 91

Malaria: Elimination Strategies and New Tools

Marriott - Room A703/A704

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

CHAIR

Kim Lindblade
Centers for Disease Control and Prevention, Atlanta, GA, United States

Julia Mwesigwa
Medical Research Council Unit, The Gambia, Banjul, Gambia

1:45 p.m.

1215

TARGETING MALARIA HOTSPOTS IN SENEGAL: RESULTS OF A CLUSTER-RANDOMIZED TRIAL

Abdoulaye Diallo¹, Badara Cisse¹, El Hadj Ba², Fassiattou Tairou¹, Ousmane Sy¹, Cheikh Sokhna², Jules-Francois Gomis¹, Ousmane Faye¹, Colin Sutherland², Catherine Pitt³, Clare Flach³, Oumar Gaye¹, Paul Milligan³

¹Universite Cheikh Anta Diop, Dakar, Senegal, ²Institut de Recherche pour le Developpement, Dakar, Senegal, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

2 p.m.

1216

COMPARISON OF MASS DRUG ADMINISTRATION VS. MASS SCREENING AND TREATMENT HIGH-RISK, MILITARY MOBILE POPULATIONS TO SUPPORT MALARIA ELIMINATION IN CAMBODIA

Somethy Sok¹, Mariusz Wojnarski², Satharath Prom¹, Soklyda Chann², Michele Spring³, Panita Gosi², Rathvicheth Bun², Sovanveasna Kin¹, Nillawan Buathong², Mali Ittiverakul², Sabathip Sriwichai², Worachet Kuntawunginn², Huy Rekol⁴, Muth Sinoun⁴, Thay Khengheng⁴, Mary So¹, Jessica Lin⁵, Kong Saly¹, Jessica Manning⁶, David Saunders⁷, Philip Smith², Mark Fukuda², **Chanthap Lon**²

¹Ministry of National Defense, Department of Health, Phnom Penh, Cambodia, ²U.S. Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ⁵Division of Infectious Diseases, University of North Carolina School of Medicine, Chapel Hill, NC, United States, ⁶National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁷U.S. Army Medical Materiel Development Activity, Fort Detrick, MD, United States

2:15 p.m.

1217

RELATIVE CONTRIBUTION OF GENERALIZED EARLY DIAGNOSIS AND TREATMENT AND OF TARGETED MASS TREATMENT TO ELIMINATION OF PLASMODIUM FALCIPARUM MALARIA IN EASTERN MYANMAR

Jordi Landier¹, Daniel M. Parker¹, Aung Myint Thu¹, Ladda Kajeechiwa¹, May Myo Twin¹, Stephane Proux¹, Khin Maung Lwin¹, Saw Diamond Khin², Ed Marta³, Gilles Delmas¹, François Nosten¹

¹Shoklo Malaria Research Unit - Mahidol Oxford Tropical Medicine Unit, Mae Sot, Thailand, ²Karen Department of Health and Welfare, Mae Sot, Thailand, ³Karen Department of Health and Welfare, Hpa'an, Myanmar

2:30 p.m.

1218

IMPACT OF MASS DRUG ADMINISTRATION WITH DIHYDROARTEMISININ-PIPERAQUINE ON MALARIA TRANSMISSION IN A HIGHLY SEASONAL TRANSMISSION SETTING IN THE GAMBIA

Julia Mwesigwa¹, Jane Achan², Muna Affara², Cessay Sainey², Archibald Worwui², Koen Peeters Grietens³, Jean-Pierre Van Geertruyden⁴, Umberto D'Alessandro⁵

¹Medical Research Council Unit, The Gambia and Epidemiology for Global Health Institute, University of Antwerp, Banjul, Gambia, ²Medical Research Council Unit, The Gambia, Banjul, Gambia, ³Institute of Tropical Medicine, Antwerp, Belgium, ⁴Epidemiology for Global Health Institute, University of Antwerp, Antwerp, Belgium, ⁵Medical Research Council Unit, The Gambia and London School of Hygiene and Tropical Medicine, Banjul, Gambia

2:45 p.m.

1219

FREEDOM FROM INFECTION: MEASURING THE INTERRUPTION OF MALARIA TRANSMISSION

Gillian H. Stresman¹, Nuno Sepulveda¹, Kimberly Fornace¹, Thomas P. Eisele², Justin M. Cohen³, Chris Drakeley¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Center for Applied Malaria Research and Evaluation, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, ³Clinton Health Access Initiative, Brooklyn, NY, United States

3 p.m.

1220

THE NATURAL HISTORY OF MALARIA ELIMINATION IN SOUTHERN ZAMBIA

Kelly M. Searle¹, Timothy M. Shields¹, Ben Katowa², Jailos Lubinda², Harry Hamapumbu², Tamaki Kobayashi¹, Philip E. Thuma², Frank Curriero¹, William J. Moss¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Macha Research Trust, Macha, Zambia

3:15 p.m.

1221

GENOMIC TOOLS REVEAL TRENDS IN PLASMODIUM FALCIPARUM PARASITE DIVERSITY ACROSS TRANSMISSION GRADIENTS WORLDWIDE

Rachel Fath Daniels¹, Awa B. Deme², Amy K. Bei², Adam Bennett³, Kafula Silumbe⁴, Victor Chalwe⁵, Mukalwa Kamuliwo⁶, Busiku Hamainza⁶, Josh Yukich⁷, Elizabeth Chizema⁸, Duncan Earle⁴, Silvie Huijben⁹, Pedro Aide¹⁰, Beatriz Galatas⁹, Amanda K. Lukens¹, Arjen M. Dondorp¹¹, Hsiao-Han Chang¹, Alice Eziefula¹², Fitsum G. Tadesse¹³, Lynn Grignard¹², Nicholas K. Baro¹, Lindsay Morton¹⁴, MacArthur Charles¹⁵, Jimmy A. Varetta¹⁶, Rushdy Ahmad¹⁷, Terrie E. Taylor¹⁸, Caroline Buckee¹, Teun Bousema¹², Chris Drakeley¹², Linnie Golightly¹⁹, Thomas P. Eisele², Richard W. Steketee²⁰, John M. Miller⁴, Rick M. Fairhurst²¹, John Aponte⁹, Pedro L. Alonso²², Alfredo Mayor⁹, Danny A. Milner¹, Venkatachalam Udhayakumar²³, Daouda Ndiaye²⁴, Dyann F. Wirth¹, Daniel L. Hartl²⁵, Sarah K. Volkman¹

¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²LeDantec Hospital, Dakar, Senegal, ³University of California San Francisco, San Francisco, CA, United States, ⁴Malaria Control and Evaluation Partnership in Africa (PATH-MACEPA), Lusaka, Zambia, ⁵Tropical Diseases Research Centre, Ndola, Zambia, ⁶National Malaria Control Center, Lusaka, Zambia, ⁷Tulane University, New Orleans, LA, United States, ⁸Ministry of Health Headquarters, Lusaka, Zambia, ⁹Barcelona Institute for Global Health (IS Global), Barcelona, Spain, ¹⁰Manhica Health Research Center (CISM), Manhica, Mozambique, ¹¹Mahidol Oxford Tropical Medicine Research Unit (MORU), Bangkok, Thailand, ¹²London School of Hygiene & Tropical Medicine, London, United Kingdom, ¹³Radboud University Medical Centre, Nijmegen, Netherlands, ¹⁴University of Maryland Baltimore, Baltimore, MD, United States, ¹⁵Vanderbilt Institute for Global Health (VIGH), Nashville, TN, United States, ¹⁶University of Malawi College of Medicine, Blantyre, Malawi, ¹⁷The Broad Institute, Cambridge, MA, United States, ¹⁸Michigan State University, East Lansing, MI, United States, ¹⁹Weill Medical College of Cornell University, New York, NY, United States, ²⁰Malaria Control Program (PATH), Seattle, WA, United States, ²¹National Institutes of Health, Rockville, MD, United States, ²²World Health Organization, Geneva, Switzerland, ²³Centers for Disease Control and Prevention, Atlanta, GA, United States, ²⁴Cheikh Anta Diop University, Dakar, Senegal, ²⁵Harvard University, Cambridge, MA, United States

Symposium 92

New Approaches to Examining Antigenic Variation in Multiple Plasmodium Species and in the Course of Infections in Humans, Non-Human Primates and Mosquitoes

Marriott - Room A706/A707

Tuesday, November 15, 1:45 p.m. - 3:30 p.m.

Antigenic variation, with the variable expression of large complex gene families and their encoded proteins during the course of infecting mosquito and primate host species, is critical to the success of malaria parasites. This has been predominantly studied in *Plasmodium falciparum*, the parasite species responsible for the highest levels of morbidity and mortality in humans, and *P. knowlesi*, a zoonotic species in Southeast Asia. In particular, *P. knowlesi* has served as a model for *in vivo* and *ex vivo* studies to investigate the regulatory mechanisms of expression and switching of variant types. This symposium will provide a strong foundation for understanding this field, from the historic discoveries on within - and between - host dynamics of

Tuesday
November 15

malaria antigenic variation, focusing on the *P. falciparum* var and *P. knowlesi* SICAvAr gene families, to the current state-of-the-art research using multi-omic tools with emphasis on the importance of epigenomics and experimental progress from culture systems, humans, non-human primates (NHPs) and mosquito vectors. Following a brief introduction, the first presentation will address the within- and between-host dynamics of *P. falciparum*, bringing together modeling and population-based epidemiological perspectives that are relevant to eliminating malaria. The next presentation will provide a detailed analysis of *P. knowlesi* antigenic variation, and the unique importance and benefits of NHP and mosquito hosts in studying *in vivo* switch events. This will include current data on the down regulation of SICAvAr gene expression in both *in vitro* cultures and splenectomized NHP hosts. The next speaker will describe the epigenetic regulation from humans to mosquitoes and the impact of mosquito transmission on the gene expression patterns and mechanisms of regulation of clonally variant gene families, and discuss the necessity of studies in NHP models to study the consequences of these findings for malaria virulence and pathogenesis. The final speaker will provide an overarching perspective including multiple dimensions of epigenetic gene regulation in malaria parasites (*P. falciparum*, *P. vivax* and *P. knowlesi*), including transcriptional regulation via histone modifications, nucleosome positioning and nuclear architecture. The presentation will demonstrate shifts in chromatin structure from stage to stage, and highlight the importance of studying these processes across species and comparing *in vivo*, *ex vivo* and *in vitro* model systems. The session brings together experts in multiple *Plasmodium* species, malaria biology, immunology and genetics, with cutting-edge technologies and computational tools, pertinent to global analyses of the parasite's genetic regulation in each of its hosts and across populations.

CHAIR

Lauren M. Childs
Harvard T. H. Chan School of Public Health, Boston, MA, United States

Mary R. Galinski
Emory University, Atlanta, GA, United States

1:45 p.m. IMPLICATIONS OF ANTIGENIC DIVERSITY AND PHENOTYPIC VARIATION FOR MALARIA EPIDEMIOLOGY

Caroline Buckee
Harvard T.H. Chan School of Public Health, Boston, MA, United States

2:05 p.m. PLASMODIUM KNOWLESI VARIANT ANTIGEN GENE AND PROTEIN INVESTIGATIONS USING MACAQUE INFECTIONS TO DETERMINE THE MOLECULAR MECHANISMS THAT GOVERN SWITCHING AND EPIGENOMIC REGULATION IN VIVO

Stacey A. Lapp
Emory Vaccine Research Center, Atlanta, GA, United States

2:25 p.m. EPIGENETIC REGULATION OF PLASMODIUM FALCIPARUM CLONALLY VARIANT GENE EXPRESSION DURING ITS LIFE-CYCLE IN THE MOSQUITO

Elena Gomez-Diaz
Donana Biological Station, Spanish National Research Council, Sevilla, Spain

2:45 p.m. MULTIPLE DIMENSIONS OF EPIGENETIC GENE REGULATION IN MALARIA PARASITES - TRANSCRIPTIONAL REGULATION VIA HISTONE MODIFICATIONS, NUCLEOSOME POSITIONING AND NUCLEAR ARCHITECTURE

Karine Le Roch
University of California Riverside, Riverside, CA, United States

Exhibit Hall Open

Marriott - International Hall
Tuesday, November 15, 3:15 p.m. - 4:15 p.m.

Coffee Break

Marriott - International Hall
Tuesday, November 15, 3:30 p.m. - 4 p.m.

Sponsored by Sanofi Pasteur CONTRIBUTOR

Symposium 93

Co-Administration of Drugs for NTDs: Efficacy, Efficiency and Safety in Mass Drug Administration Programs

Marriott - Imperial A
Tuesday, November 15, 4 p.m. - 5:45 p.m.

Mass drug administration is the WHO recommended strategy for the control or elimination of the five preventive chemotherapy (PCT) neglected tropical diseases. In countries where multiple infections are endemic, separate rounds of drug distribution are frequently utilized for perceived safety or other reasons. Co-administration of at least two medicines is common, particularly in de-worming programs or in the case of the Global Program for the Elimination of Lymphatic Filariasis. Co-administration of three medicines, often called triple drug administration (TDA), is far less frequent despite evidence of the safety, efficacy and efficiency in support of it. This symposium presents four current and upcoming multi-drug, single-dose therapy regimens targeting the NTDs and discusses the safety, benefits and challenges in operationalizing these in the field.

CHAIR

Darin Evans
U.S. Agency for International Development, Washington, DC, United States

Eric Ottesen
RTI International, Washington, DC, United States

4 p.m. TDA WITH PRAZIQUANTEL, IVERMECTIN, AND ALBENDAZOLE IN NIGERIA

Abel Eigege
The Carter Center Nigeria, Jos, Nigeria

4:15 p.m. SAFETY AND EFFICACY OF A SINGLE DOES COMBINATION THERAPY OF IVERMECTIN, DIETHYLCARBAMAZINE AND ALBENDZOLE FOR TREATMENT OF LYMPHATIC FILARIASIS

Christopher L. King
Case Western Reserve University, Cleveland, OH, United States

4:30 p.m.

AZITHROMYCIN, IVERMECTIN AND ALBENDAZOLE

Michael Marks

London School of Hygiene & Tropical Medicine, London, United Kingdom

4:45 p.m.

MULTI-DRUG REGIMENS FOR SOIL-TRANSMITTED HELMINTHIASIS CONTROL

David Addiss

Task Force for Global Health, Children Without Worms, Decatur, GA, United States

5 p.m.

PHARMACOKINETIC, PHARMACODYNAMICS AND SAFETY CONSIDERATIONS FOR COMBINATION TREATMENTS IN NEGLECTED TROPICAL DISEASES

David Wesche

Great Lakes Drug Development, Brighton, MI, United States

Symposium 94

Malaria Economics Research Priorities: Are We Supporting Program Scale Up Effectively?

Marriott - Imperial B

Tuesday, November 15, 4 p.m. - 5:45 p.m.

While significant progress has been made to reduce malaria mortality, there is still work to be done to lower—and ultimately eliminate—the incidence and morbidity of malaria. The push for elimination in some countries has raised the bar for researchers and implementers; this is especially true for the financing of malaria control in pre-elimination countries. Current domestic and international resources are inadequate to support control efforts and therefore, barring an increase in aid, countries must improve the mobilization and use of domestic resources to move closer to elimination. Malaria economics research (MER) provides critical information on the efficiency and multisector impact of malaria interventions and is increasingly demanded by institutions like Ministries of Finance and the President's Malaria Initiative (PMI). Still, the financial and human resources to produce MER are limited. MER typically takes one of two approaches: 1. Broad and generalizable results, e.g. multi-country meta-analyses of interventions, or 2. Local/specific results, e.g. a single country/setting study of a single malaria intervention. Whatever the approach, MER must inform users' programmatic, resource allocation, and funding decisions for malaria. Given limited resources, funders and researchers must prioritize these economic analyses, ensuring that research funds are allocated effectively to answer the most pressing questions facing policymakers and programmers. This symposium will generate a lively discussion about the utility of different types of economic research, and will begin by presenting two recent economic research studies: 1) an WHO/RBM-led multicountry cost-benefit analysis to quantify the potential returns of investing to achieve the 2030 malaria goals, and 2) a PMI-funded country-level analysis of the cost effectiveness of malaria prevention and control intervention packages in Senegal. Presentations will highlight the study's key findings, and how they address policymakers' and programmers' needs. A moderated discussion will follow focused on the questions: How do different audiences for MER react to different types of research? What types of decisions does each research type impact? How are country ownership

and use impacted by type of research? How do the results of different types of research impact efficiency within malaria programs? How are research study costs affected by choice of type of MER study? Is effective resource mobilization for malaria control/elimination impacted by MER approach? The panel does not intend to conclude in favor of one type of research but rather will highlight the pros, cons, and difficult tradeoffs that have to be made when funding malaria economic research.

CHAIR

Sophie Faye

Abt Associates, Inc., Bethesda, MD, United States

Martin Alilio

Presidents' Malaria Initiative/United States Agency for International Development, Washington, DC, United States

4 p.m.

COST EFFECTIVENESS ANALYSIS OF MALARIA INTERVENTION PACKAGES IN SENEGAL

Alioune Badara Gueye

Senegal National Malaria Control Program (NMCP), Dakar, Senegal

4:30 p.m.

MULTICOUNTRY COST BENEFIT ANALYSIS QUANTIFYING POTENTIAL RETURNS OF INVESTING TO ACHIEVE THE 2030 MALARIA GOALS

Amadou Bah

Swiss Tropical and Public Health Institute, Basel, Switzerland

4:55 p.m.

PANEL DISCUSSANT

Ibrahima Seck

Institute of Health and Development, Université Cheikh Anta Diop, Dakar, Senegal

Benjamin Johns

International Health, Abt Associates, Inc., Bethesda, MD, United States

Symposium 95

Current Challenges and Opportunities for Treating and Eliminating ACT-Resistant *Plasmodium falciparum* Malaria in the Greater Mekong Subregion

Marriott - Marquis A

Tuesday, November 15, 4 p.m. - 5:45 p.m.

Artemisinin (ART) combination therapy (ACT) is recommended worldwide for falciparum malaria. ART resistance is characterized by much slower clearance of parasitemia, which selects for partner drug resistance and thus severely reduces the efficacy of ACTs (e.g., DHA-piperazine) in the Greater Mekong Subregion (GMS). Three recent studies report declining efficacy of DHA-piperazine shortly after its deployment in Cambodia. High ACT failure rates jeopardize efforts to treat and eliminate ACT-resistant malaria in the GMS; spread of multidrug-resistant falciparum malaria to Africa, where most of the world's malaria occurs, would be disastrous. Since ART resistance is approaching fixation and ACT failures are increasing in the GMS, additional treatments and control measures are needed. Here, this session will present recently published and unpublished data from studies to improve cure rates in patients, ameliorate the detrimental effects of unregulated and ineffective drugs in the private sector, and understand transmission of resistant *P. falciparum* in native

Anopheles vector populations. An update will be provided on the extent of ACT failures in the GMS, and describe a variety of options for confronting this problem. On behalf of the Tracking Resistance to Artemisinin Collaboration II (TRAC II), a presentation will be made on the rationale, design, and initial findings from a multi-center, open-label randomized trial to assess the efficacy, safety, and tolerability of Triple ACTs (TACTs): DHA-piperaquine + mefloquine, and artemether-lumefantrine + amodiaquine. On behalf of the ACTwatch group, The symposium will feature novel market evidence on gaps and barriers for malaria elimination in the GMS, including representative outlet survey data (30,000 outlets screened for RDTs and antimalarials, 10,000 antimalarials audited in 2015-2016) from Cambodia, Laos, Myanmar, Thailand, and Vietnam that illustrate the extent that antimalarials are available and distributed outside the regulated health system, and the availability and distribution of antimalarials that are not first-line treatments, including oral ART monotherapy. The session will describe the incredible diversity of contemporary *Anopheles* species in Cambodia. Focusing on six Cambodian sites where clusters of malaria cases occurred, the symposium will present an annual monthly survey of 20,000 anophelines that has identified 35 different *Anopheles* species, 15 of which carried *P. falciparum*. This finding suggests that eliminating ACT-resistant malaria from the GMS will be more challenging than previously thought. The four presentations will stimulate enlightened discussions about the challenges and opportunities of treating ACT failures and eliminating ACT-resistant parasites from the GMS.

CHAIR

Rick Fairhurst

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

Arjen Dondorp

University of Oxford, Bangkok, Thailand

4 p.m.

ARTEMISININ AND ACT PARTNER DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM* MALARIA: OPTIONS FOR TREATMENT AND ELIMINATION

Arjen Dondorp

University of Oxford, Bangkok, Thailand

4:25 p.m.

A MULTI-CENTER, OPEN-LABEL RANDOMIZED TRIAL TO ASSESS THE EFFICACY, SAFETY, AND TOLERABILITY OF TRIPLE ARTEMISININ COMBINATION THERAPIES (TACTS)

Rob van der Pluijm

University of Oxford, Bangkok, Thailand

4:50 p.m.

HEALTH SYSTEMS BARRIERS AND GAPS FOR MALARIA ELIMINATION IN THE GREATER MEKONG SUBREGION: FINDINGS FROM ACTWATCH OUTLET SURVEYS

Megan Littrell

ACTwatch, PSI, Washington, DC, United States

5:15 p.m.

CLINICALLY-INFORMED MOSQUITO SAMPLING: A LONGITUDINAL STUDY OF DIVERSE *ANOPHELES* VECTOR SPECIES IN THREE CAMBODIAN PROVINCES

Brandyce St. Laurent

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

Symposium 96

Integration of Mass Drug Administration With Vector Control Approaches: An Enhanced Malaria Elimination Package

Marriott - Marquis B

Tuesday, November 15, 4 p.m. - 5:45 p.m.

Achieving ambitious malaria elimination targets requires aggressive and innovative approaches to rapidly and sustainably reduce parasites in both the human and mosquito vector populations. This symposium aims to discuss key considerations for mass drug administration (MDA), a more aggressive drug-based approach, in combination with deployment of an expanded toolbox of vector control tools for malaria elimination. MDA is considered a promising and effective tool to reduce the human parasite reservoir if optimized and deployed properly. Recent WHO recommendations on MDA lay out the use scenarios for MDA and also suggest that robust vector control strategies need to be integrated with MDA. In addition to traditional vector control approaches, such as long lasting insecticide-treated nets (LLINs) and/or indoor residual spraying with insecticides (IRS), it is now clear that innovative methods of vector control are needed to address residual transmission, particularly in areas where *Anopheles* mosquitoes rest and bite humans and animals outdoors, evading LLINs and IRS. The first speaker will provide an overview of the current WHO position on MDA strategies. In what contexts does the WHO recommend that MDA be deployed, and what are major considerations that must be taken into account in all circumstances? The presenter will then describe different ways to deliver MDA, which may be highly focal to target populations, span across entire communities, or deployed in emergency situations. The second speaker will describe how MDA can be effectively rolled out, using an example of Seasonal Malaria Chemoprophylaxis in Mali, currently the most widely implemented form of MDA. The next presenter will discuss how coverage is maximized through community participation, and will describe additional gaps that must be addressed if this strategy is to be expanded across wider populations. The third speaker will define residual transmission and discuss opportunities to target residual transmission with novel and underutilized tools alongside drug-based approaches. In addition, the presenter will describe research findings from literature reviews, case studies, and modeling on innovative vector control approaches and explore practical considerations for malaria programs. The final presentation will describe a project in Southern Mozambique to eliminate malaria in one district using a combination of MDA and vector control. What was the impact and feasibility of the pilot, and what were the challenges to achieving and sustaining high coverage? What are practical considerations for rolling out combined MDA and vector control?

CHAIR

Ingrid Chen

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

Sheila Ogoma Barasa

U.S. Army Medical Research Directorate-Kenya, Kisumu, Kenya

4 p.m.
WHO POSITION ON MDA STRATEGIES FOR MALARIA CONTROL AND ELIMINATION

Andrea Bosman
World Health Organization, Geneva, Switzerland

4:20 p.m.
SEASONAL MALARIA CHEMOPROPHYLAXIS IN MALI: COMMUNITY ENGAGEMENT AND IMPLEMENTATION

Alassane Dicko
Malaria Research and Training Centre, Bamako, Mali

4:40 p.m.
NOVEL VECTOR CONTROL TOOLS AND APPROACHES TO ENHANCE MDA STRATEGIES AND TARGET RESIDUAL TRANSMISSION FOR MALARIA ELIMINATION

Allison Tatarsky
University of California San Francisco, San Francisco, CA, United States

5 p.m.
INTEGRATION OF MASS DRUG ADMINISTRATION WITH VECTOR CONTROL APPROACHES: AN ENHANCED MALARIA ELIMINATION PACKAGE

Francisco Da Conceicao Mario Sauté
Manhica Health Research Center, Maputo, Mozambique

Symposium 97

American Committee on Arthropod-Borne Viruses (ACAV) Symposium II: Emergence, Evolution and Control of Zika Virus

Marriott - Marquis C

Tuesday, November 15, 4 p.m. - 5:45 p.m.

Until 2007, mosquito-borne Zika virus (ZIKV) was confined to the tropical belt of Africa and Asia, where it caused limited outbreaks of mild febrile disease in humans. In 2007, a large outbreak of Zika virus infection occurred on Yap island, followed by additional introductions into the South Pacific and, in 2015 or perhaps earlier, into Brazil. At this time an association between Zika virus and neurological disease, including congenital microcephaly and Guillain-Barre syndrome (GBS), were detected. Following the introduction to Brazil, ZIKV spread explosively through the Americas and on February 1, 2016, the World Health Organization declared the epidemic a public health emergency of international concern. This symposium will provide a panoramic view of the trajectory of ZIKV emergence from its discovery in 1947 to the most recent spread. Specifically, the symposium will cover the dynamics of ZIKV in its ancestral, enzootic cycle in non-human primates in Africa, its emergence from this cycle and evolution over the course of its global spread, and the epidemiology of Zika microcephaly and GBS in Brazil. The session will conclude with an update on efforts to develop a Zika vaccine.

CHAIR

Scott C. Weaver
University of Texas Medical Branch, Galveston, TX, United States

Federico Costa
Federal University of Bahia, Salvador, Brazil

4 p.m.
ZIKA VIRUS: EVOLUTION AND POTENTIAL MECHANISMS OF EMERGENCE

Scott C. Weaver
University of Texas Medical Branch, Galveston, TX, United States

4:25 p.m.
MODELING THE TRANSMISSION DYNAMICS OF ZIKA VIRUS

Benjamin Althouse
New Mexico State University, Las Cruces, NM, United States

4:50 p.m.
EMERGENCE OF CONGENITAL ZIKA SYNDROME IN BRAZIL

Federico Costa
Federal University of Bahia, Salvador, Brazil

5:15 p.m.
VACCINE APPROACHES FOR ZIKA VIRUS

Stephen S. Whitehead
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Symposium 98

Results from the Pneumonia Etiology Research for Child Health Study (PERCH)

Marriott - Marquis D

Tuesday, November 15, 4 p.m. - 5:45 p.m.

PERCH is a multi-country, comprehensive evaluation of the etiologic agents causing severe and very severe pneumonia among children aged 28 days to 59 months in developing countries. Between August 2011 and January 2014 PERCH enrolled 4,232 cases and 5,325 controls across nine study sites located in seven countries: Dhaka and Matlab, Bangladesh; Basse, The Gambia; Kilifi, Kenya; Bamako, Mali; Soweto, South Africa; Nakhon Phanom and Sa Kaeo, Thailand; and Lusaka, Zambia. PERCH followed a highly standardized protocol for enrollment criteria, specimen collection and laboratory testing. PERCH is the largest and most comprehensive study of childhood pneumonia etiology thus far conducted. Through innovative diagnostic techniques and analytic methods, PERCH expands our understanding of pneumonia etiology in order to improve prevention and therapy. The symposium presentations will focus on PERCH in the context of other etiology studies. Over the past century, the focus of pneumonia etiology research has shifted from studies of lung aspirates and postmortem specimens intent on identifying pneumococcal disease, to studies of multiple specimen types distant from the lung tested for multiple pathogens. This presentation explores the history of pneumonia etiology studies and introduces the PERCH study and methods. The symposium will describe cases and controls in the PERCH Study. The presenter will provide descriptive results from the PERCH study, including demographics, clinical findings, laboratory results from key specimens, case fatality and select risk factors; this set of results is necessary for the audience to interpret the integrated etiology results presented next. The symposium will discuss the PERCH Quantitative Method and the primary etiology results from the PERCH study. The PERCH Quantitative Analysis (PQA) method was developed as a probabilistic approach to incorporate data from a variety of specimens and tests from both

cases and controls to produce an etiology pie for pneumonia. The analysis integrates data from multiple types of measurements, including both case-only and case-control measurements, and accounts for varying measurement error rates to estimate the distribution of pathogens among the cases. This presentation will briefly discuss the analytic methods utilized in PERCH to estimate etiology, and will present the primary etiology results from the PERCH study and an interpretation of the PERCH results in the larger context of pneumonia etiology. The session will include a clinical and etiologic description of mortality in PERCH in order to characterize the fatal PERCH cases in terms of their clinical, risk factor and laboratory findings. The symposium will describe if mortality is associated with certain etiologies and present key predictors of prognosis.

CHAIR

Katherine L. O'Brien
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Abdullah Brooks
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4 p.m. PERCH IN THE CONTEXT OF OTHER ETIOLOGY STUDIES

Abdullah Brooks
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4:15 p.m. A DESCRIPTION OF THE CASES AND CONTROLS IN THE PERCH STUDY

Laura L. Hammitt
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4:30 p.m. THE PERCH QUANTITATIVE METHOD AND THE PRIMARY ETIOLOGY RESULTS FROM THE PERCH STUDY

Anthony G. Scott
London School of Hygiene & Tropical Medicine, London, United Kingdom

5 p.m. A CLINICAL AND ETIOLOGIC DESCRIPTION OF MORTALITY IN PERCH

Katherine L. O'Brien
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Scientific Session 99

Schistosomiasis: Immunology, Pathology and Diagnostics

Marriott - Room M103/M104/M105
Tuesday, November 15, 4 p.m. - 5:45 p.m.

CHAIR

Keke C. Fairfax
Purdue University, West Lafayette, IN, United States

Michael Hsieh
Biomedical Research Institute, Rockville, MD, United States

4 p.m. **1222**

HOST EXPOSURE TO EARLY LIFE STAGES OF *SCHISTOSOMA HAEMATOBIMUM* DOES NOT ALTER THE BLADDER RESPONSE TO EGGS

Loc Le, Michael Hsieh
Biomedical Research Institute, Rockville, MD, United States

(ACMCIP Abstract)

4:15 p.m. **1223**

MATERNAL *SCHISTOSOMA MANSONI* INFECTION ALTERS THE IMMUNE RESPONSE OF OFFSPRING TO TETANUS AND DIPHTHERIA IMMUNIZATION

Diana Cortes Selva, Andrew Ready, Keke C. Fairfax
Purdue University, West Lafayette, IN, United States

(ACMCIP Abstract)

4:30 p.m. **1224**

RECOMBINANT PARAMYOSIN IN MONTANIDE ISA 206 PROTECTS WATER BUFFALO FROM *SCHISTOSOMA JAPONICUM* INFECTION

Hannah Wu
Brown University, Providence, RI, United States

4:45 p.m. **1225**

A MICROFILTRATION DEVICE FOR DIAGNOSIS OF UROGENITAL SCHISTOSOMIASIS

Yuan Xiao¹, Yi Lu¹, Michael Hsieh², Joseph Liao³, Pak K. Wong¹
¹Pennsylvania State University, University Park, PA, United States, ²Children's National Medical Center, Washington, DC, United States, ³Stanford University School of Medicine, Stanford, CA, United States

5 p.m. **1226**

AN EGG PROTEIN FROM *SCHISTOSOMA MANSONI* IS PROMISING FOR DEVELOPMENT OF HIGH-SPECIFICITY DIAGNOSTICS IN THE ERA OF INTENSIFIED CONTROL

Vanessa Silva-Moraes¹, Paulo M. Coelho¹, Donald A. Harn², Flavia F. Couto¹, William C. Borges³, Rafaella F. Grenfell¹, Ana Lucia T. Rabello¹, Lisa M. Shollenberger²

¹Rene Rachou Research Center - Oswaldo Cruz Foundation, Belo Horizonte, Brazil, ²University of Georgia, Athens, GA, United States, ³University Federal of Ouro Preto, Ouro Preto, Brazil

(ACMCIP Abstract)

5:15 p.m. **1227**

MAPPING OF SCHISTOSOMIASIS IN RWANDA: USE OF POC-CCA VERSUS KATO-KATZ

Corine K. Karema¹, Irene Umulisa¹, Daniel G. Colley², Eugene Ruberanzinza¹, Jamie Tallant³, Tharcisse Munyaneza⁴, Ortu Giussepina⁵, Jean Baptiste Mazarati⁶, Carl H. Campbell⁷, Agnes Binagwaho⁸, Alan Fenwick⁵

¹Malaria and Other Parasitic Diseases Division, Kigali, Rwanda, ²SCORE, University of Georgia, Athens, GA, United States, ³The END FUND, London, United Kingdom, ⁴National Reference Laboratory, Ministry of Health, Kigali, Rwanda, ⁵Schistosoma Control Initiative, London, United Kingdom, ⁶Biomedical Services Department-RBC, Ministry of Health, Kigali, Rwanda, ⁷SCORE, University of Georgia, Athens, GA, United States, ⁸Global Health and Social Medicine at Harvard Medical School, Ministry of Health, Kigali, Rwanda

5:30 p.m.

1228

A NOVEL CELL FREE DNA DETECTION ASSAY FOR THE DIAGNOSIS OF SCHISTOSOMIASIS *JAPONICA*

Kosala G. Weerakoon, Catherine A. Gordon, Geoffrey N. Gobert, Pengfei Cai, Donald P. McManus
QIMR Berghofer Medical Research Institute, Brisbane, Australia

Symposium 100

Quantitative Approaches to Support the Achievement of Elimination Targets for Intensified Disease Management NTDs

Marriott - Atrium A

Tuesday, November 15, 4 p.m. - 5:45 p.m.

The intensified disease management (IDM) neglected tropical diseases (NTDs) form a group of diseases for which mass drug administration is not available, and so alternative interventions must be employed. While they appear to have little in common, being caused by different etiological agents and spread via different mechanisms, they share key challenges related to reducing disease burden and achieving elimination. In this session, speakers from the NTD Modelling Consortium will highlight quantitative approaches directed toward reaching the World Health Organization's 2020 elimination targets for four different IDM NTDs: leprosy, trachoma, Chagas disease and human African trypanosomiasis (sleeping sickness). This symposium addresses a range of overarching themes including how elimination targets are defined, how progress towards goals can be measured, optimal intervention strategies, and prevention of disease re-emergence. Discussions in the leprosy session will focus on whether the new elimination targets are achievable within the short timeframe given the long incubation period for disease. Similarly, in the Chagas session, the related theme of control of a disease with slow dynamics will be explored. The sleeping sickness session will demonstrate how reported case data can be used to infer underlying transmission. Finally, the trachoma presentation will emphasize the benefits of using combined modelling approaches for forecasting outcomes of intervention strategies. Across the diseases the relevant intervention strategies have been quantitatively evaluated and an overview of the results will be given. The likely impact of these strategies, which include medical intervention, vector control and improvements to water sanitation and hygiene (WASH), will be presented. In the end-game for disease it is vital to assess the consequences of reducing or lifting interventions post-elimination and the speakers will explore the potential issue of recrudescence. Additionally, the speakers will discuss lessons that can be learned from the mathematical modelling of these diseases, and how modelling can strengthen predictions, highlight uncertainties and ultimately provide critical support towards achieving elimination goals.

CHAIR

Kat S. Rock

The University of Warwick, Coventry, United Kingdom

Jennifer K. Peterson

Princeton University, Princeton, NJ, United States

4 p.m.

ELIMINATION IN LEPROSY: SENSE AND NONSENSE IN THE LEPROSY ELIMINATION DISCUSSION

Jan Hendrik Richardus

Erasmus Medical Center, Rotterdam, Netherlands

4:20 p.m.

AGE-STRUCTURED MODELS FOR THE POPULATION DYNAMICS OF CHAGAS DISEASE: INSIGHTS FOR VECTOR CONTROL AND ELIMINATION

Andrew P. Dobson

Princeton University, Princeton, NJ, United States

4:40 p.m.

HOW CAN WE ACHIEVE ELIMINATION OF SLEEPING SICKNESS IN EQUATEUR PROVINCE, DRC? ASSESSING INTERVENTION OUTCOMES USING INDEPENDENT MODELLING APPROACHES

Kat S. Rock

The University of Warwick, Coventry, United Kingdom

5 p.m.

WHAT INTERVENTIONS ARE REQUIRED IN ORDER TO ELIMINATE TRACHOMA AS A PUBLIC HEALTH PROBLEM BY 2020? INSIGHTS FROM TWO MATHEMATICAL MODELS

Amy Pinsent

Monash University, Melbourne, Australia

Symposium 101

Clinical Group Symposium II (American Committee on Clinical Tropical Medicine and Travelers' Health - ACCTMTH)

Marriott - Atrium B

Tuesday, November 15, 4 p.m. - 5:45 p.m.

This session will feature clinical tropical medicine and travel medicine updates, followed by the Clinical Group (ACCTMTH) Business Meeting.

CHAIR

Duane R. Hoshenthal

University of Texas Health Science Center at San Antonio, San Antonio, TX, United States

John W. Sanders

Wake Forest Baptist Health, Winston-Salem, NC, United States

4 p.m.

MOSQUITO-BORNE VIRAL THREATS TO THE U.S. (INCLUDING ZIKA AND CHIKUNGUNYA VIRUSES)

Susan L. Hills

Centers for Disease Control and Prevention, Fort Collins, CO, United States

4:20 p.m.

ASSESSING PERSONAL AND TEAM SAFETY WHEN WORKING OVERSEAS

Gregory J. Martin

U.S. Department of State, Washington, DC, United States

4:55 p.m.

KEAN@15: LESSONS FROM THE PAST AND MOVING FORWARD WITH THE BENJAMIN KEAN TRAVEL FELLOWSHIP

Chandy C. John

Indiana University School of Medicine, Indianapolis, IN, United States

Aubri Carman

Ryan White Center for Pediatric Infectious Disease and Global Health, Indiana University, Indianapolis, IN, United States

5:05 p.m.

ACCTMTH ANNUAL BUSINESS MEETING

Duane R. Hespenthal

University of Texas Health Science Center at San Antonio, San Antonio, TX, United States

Symposium 102

Approaches, Advances and Needs for the Elimination of Human African Trypanosomiasis (HAT)

Marriott - Room A706/A707

Tuesday, November 15, 4 p.m. - 5:45 p.m.

Sleeping sickness is a life-threatening vector-borne parasitic disease primarily affecting people living in remote areas in rural Africa where the tsetse fly – the vector - is prevalent. *Trypanosoma brucei gambiense* (g-HAT) produces the chronic form of the disease and is endemic in 24 central and western African countries. The acute presentation of the disease, caused by *T.b. rhodesiense* (r-HAT), is endemic in 13 countries in eastern and southern Africa. HAT has been targeted for elimination as a public health problem by 2020, by which time there should be less than one new case per 10,000 inhabitants in at least 90% of foci. Over the last decade the numbers of HAT patients have dropped drastically. Only 3,679 new cases of g-HAT and 117 new cases of r-HAT were reported in 2014. Thanks to improved surveillance, active case-searching, and treatment, the elimination goal is in sight. A safe oral treatment and reliable, easy-to-use diagnostic will enable the development of adapted and cost-effective strategies to be undertaken in the remote villages where patients live. The WHO has recently drawn up implementation and access plans for new tools in the context of developing new strategies for control and surveillance as well as for the monitoring of the elimination process. The current portfolio of diagnostics will be evaluated and discussed, as there is a need for new approaches for active case detection, and adaptation to passive case detection; the problem of asymptomatic carriers also needs to be addressed and elimination carefully monitored. Fexinidazole is the most advanced orally available new chemical entity in development and a series of trials are underway or planned in adults and children with both stages of *gambiense* or *rhodesiense* HAT. A second compound, from the oxaborole class, SCYX-7158, which presented a half-life enabling a single dose oral treatment will reinforce the treatment possibilities of the disease. Other compounds are at an earlier stage in the pipeline: high throughput screening and follow-up screens of the entire Novartis archive was undertaken (2014-2015) and the hit lists analyzed with two different approaches, a chemo- and a bio-centric hit selection. These approaches, the results and outlook for the current HAT lead portfolio will be described.

CHAIR

Jose R. Franco

World Health Organization, Geneva, Switzerland

Crispin Lumbala

Programme National de Lutte contre la Trypanosomiase Humaine Africaine (PNLTHA), Kinshasa, Democratic Republic of the Congo

4 p.m.

HOW CAN WE ACHIEVE HAT ELIMINATION BY 2020?

Jose R. Franco

World Health Organization, Geneva, Switzerland

4:20 p.m.

DIAGNOSIS OF HAT: NEW TOOLS IN A CHANGING CONTEXT

Veerle Lejon

Institut de Recherche pour le Developpement, Montpellier, France

4:40 p.m.

CLINICAL DEVELOPMENT OF NEW ORAL TREATMENTS FOR HAT

Antoine Tarral

Drugs for Neglected Diseases initiative, Geneva, Switzerland

5 p.m.

HUMAN AFRICAN TRYPANOSOMIASIS – A BIO-CENTRIC HIT TO LEAD APPROACH TO IDENTIFY NEW LEAD SERIES

Jan Jiricek

Novartis Institute of Tropical Diseases, Singapore, Singapore

Special Session 103

Speed-Networking with the Experts

Marriott - Room M301/M302/M303/M304

Tuesday, November 15, 5 p.m. - 6:45 p.m.

Please note that this session is limited to those who pre-registered for the event.

The fourth annual Speed-Networking session is organized by each of the five ASTMH subgroups: ASTMH Committee on Global Health (ACGH), the American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH/Clinical Group), the American Committee of Medical Entomology (ACME), the American Committee on Arthropod-Borne Viruses (ACAV) and the American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP). The session is designed to facilitate interaction between senior scientists, physicians and trainees in an informal setting to provide an array of important information and 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.

CHAIR

Kathryn Hanley (ACAV)

New Mexico State University, Las Cruces, NM, United States

Koya C. Allen (ACGH)

U.S. European Command Headquarters, U.S. Department of Defense, Stuttgart, Germany

Christian Parobek (Clinical Group - ACCTMTH)

University of North Carolina, Chapel Hill, NC, United States

Richard Davis (ACMCIP)

University of Iowa, Iowa City, IA, United States

Jessica Hostetler (ACMCIP)

National Institutes of Health, Rockville, MD, United States

Scott Huang (ACME)

National Taiwan University, Taipei, Taiwan

Diana Ortiz (ACME)

Westminster College, New Wilmington, PA, United States

Plenary Session 104

Plenary Session III: Commemorative Fund Lecture

Marriott - Marquis C

Tuesday, November 15, 6:15 p.m. - 7 p.m.

The Commemorative Fund Lecture is presented annually by an invited senior researcher resident in the tropics at the invitation of the current president of ASTMH.

CHAIR

Stephen Higgs

Kansas State University, Biosecurity Research Institute, Manhattan, KS, United States



GLOBAL CHILD SURVIVAL: TRANSITION FROM THE MILLENNIUM DEVELOPMENT TO SUSTAINABLE DEVELOPMENT GOALS

Zulfiqar Bhutta, PhD, MBBS, FRCPCH, FAAP

Robert Harding Inaugural Chair in Global Child Health

Co-Director of the SickKids Centre for Global Child Health, Hospital for Sick Children

Founding Director, Center of Excellence in Women and Child Health, Aga Khan University

Dr. Zulfiqar A. Bhutta is the Robert Harding Inaugural Chair in Global Child Health at the Hospital for Sick Children, Toronto, Co-Director of the SickKids Centre for Global Child Health and the Founding Director of the Center of Excellence in Women and Child Health at the Aga Khan University, unique joint appointments. He also holds adjunct professorships at several leading universities globally, including the Schools of Public Health at Johns Hopkins University, Tufts University, Boston University School of Public Health, University of Alberta, as well as the London School of Hygiene & Tropical Medicine. Professor Bhutta was educated at the University of Peshawar (MBBS) and obtained his doctorate from the Karolinska Institute, Sweden. He is a Fellow of the Royal College of Physicians (Edinburgh and London), the Royal College of Pediatrics and Child Health (London), American Academy of Pediatrics and the Pakistan Academy of Sciences. He heads a large research team in Pakistan working on issues of maternal, newborn and child survival and nutrition globally and regionally. Dr. Bhutta's research interests include newborn and child survival, maternal

and child undernutrition and micronutrient deficiencies. He leads large research groups based in Toronto, Karachi and Nairobi with a special interest in research synthesis, scaling up evidence-based interventions in community settings and implementation research in health systems research. In particular, his work with community health workers and outreach services has influenced integrated maternal and newborn outreach programs for marginalized populations all over the world. His group's work with the WHO and PMNCH in developing consensus-based essential interventions for women, children and adolescents is the dominant set of agreed interventions guiding global policy.

Symposium 105

The Refugee Journey to Wellbeing

Marriott - Marquis B

Tuesday, November 15, 7:15 p.m. - 9 p.m.

The United Nations High Commission for Refugees estimates that there are 60 million forcibly displaced persons living outside their countries of origin, 4.3 million registered Syrian refugees located outside Syria and, in late 2015, the total number of refugees entering Europe had surpassed 1 million. As the situation continues to unfold, President Obama has pledged to accept up to 10,000 Syrian refugees for U.S. resettlement in FY16. Concerns about threats to national security related to U.S. refugee resettlement have created an urgent need to educate healthcare and public health professionals about health in resettlement and to build domestic and international capacity to meet the healthcare needs of refugees. To support these efforts, CDC and ASTMH have partnered to develop a novel interactive exhibit called The Refugee Journey to Wellbeing at the Annual Meeting to highlight the public health components of the refugee experience. This symposium aligns with the exhibit, and features technical experts from the organizations involved in refugee health and resettlement who will recount the refugee experience of flight, highlight life in a refugee camp, describe the infectious diseases of concern among different refugee populations, discuss interventions such as overseas vaccination, and the commitment of U.S. agencies to receive and provide health care to newly resettled refugees.

CHAIR

Nina Marano

Centers for Disease Control and Prevention, Atlanta, GA, United States

Susan Cookson

Centers for Disease Control and Prevention, Atlanta, GA, United States

7:15 p.m.

A COLLABORATIVE RESPONSE TO AN UNPREDICTABLE AND URGENT REFUGEE CRISIS

Mary Jo Frawley

Medecins Sans Frontieres, New York, NY, United States

7:35 p.m.

UNCHR PERSPECTIVE ON REFUGEE HEALTH

Ann Burton

UN High Commission for Refugees, Geneva, Switzerland

7:55 p.m.

IOM'S ROLE IN MIGRATION HEALTH

Ambassador William Lacy Swing

Director General, International Organization for Migration, Geneva, Switzerland

8:15 p.m.

CDC'S ROLE IN CONTINUUM OF CARE FOR RESETTLING REFUGEES

Martin S. Cetron

Division of Global Migration and Quarantine, Centers for Disease Control and Prevention, Atlanta, GA, United States

8:35 p.m.

HEALTHY RESETTLEMENT IN THE U.S.

Alawade Oladele

County Wide Services, DeKalb County Board of Health, Decatur, GA, United States

Poster Session B Dismantle

Hilton - Grand Ballroom and Grand Salon

Tuesday, November 15, 7 p.m. - 8 p.m.

Wednesday, November 16

Registration

Marriott - Marquis Foyer

Wednesday, November 16, 7 a.m. - 5 p.m.

Speaker Ready Room

Marriott - International A

Wednesday, November 16, 7 a.m. - 5 p.m.

TropStop - Student/Trainee Lounge

Marriott - Atrium Loft

Wednesday, November 16, 7 a.m. - 5 p.m.

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 "Office Hours," held in the TropStop. This will be your opportunity to meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer your questions about the various bumps and forks in the road.

Internet Nook

Marriott - Imperial Foyer

Wednesday, November 16, 7 a.m. - 5 p.m.

Sponsored by Takeda Pharmaceuticals International AG

PREMIER

Meeting Sign-Up Room

Hilton - Rooms 206 and 207

Wednesday, November 16, 7 a.m. - 10 p.m.

ASTMH Past Presidents Meeting

Marriott - Room M101

Wednesday, November 16, 7 a.m. - 8 a.m.

Diploma Course Certification Committee Meeting

Marriott - Room M108

Wednesday, November 16, 7 a.m. - 8 a.m.

Scientific Program Committee Meeting

Marriott - Room L401/L402/L403

Wednesday, November 16, 7 a.m. - 8 a.m.

Special Interactive Experience: The Refugee Journey to Wellbeing

Marriott - Atrium Loft

Wednesday, November 16, 7:30 a.m. - 9 p.m.

At the end of 2015, there were an estimated 65.3 million people displaced around the world, largely because of extended conflicts in the Middle East, Northern and sub-Saharan Africa, and Asia. The American Society of Tropical Medicine and Hygiene and the U.S. Centers for Disease Control and Prevention (CDC), with participation from a number of domestic and international partners, are hosting this unique interactive experience on refugee health. Through video, photos, live testimonials, hands-on activities and replicated scenes from the field, The Refugee Journey to Wellbeing highlights the clinical and public health aspects of the refugee experience from displacement to resettlement.

Press Room

Marriott - Room M102

Wednesday, November 16, 8 a.m. - 5 p.m.

Burroughs Wellcome Fund/ASTMH Fellowship Committee Meeting

Marriott - Room M302

Wednesday, November 16, 8 a.m. - 10 a.m.

Symposium 106

Community Providers for Neglected Tropical Disease Control: The "Building Blocks" for Program Success

Marriott - Imperial A

Wednesday, November 16, 8 a.m. - 9:45 a.m.

Health system strengthening in sub-Saharan Africa is increasingly dependent on the scale-up of programs using community providers. This includes a broad variety of individuals that carry out functions "related to health care delivery; trained in some way in the context of the intervention, but have no formal professional or paraprofessional certificate or degree in tertiary education." Community providers, also referred to as community drug distributors, village volunteers or community-based health workers, are the primary implementers in integrated preventive

chemotherapy (IPC) programs for Neglected Tropical Disease (NTD) control. Given the considerable investment focused on scaling-up IPC and maintaining high treatment coverage and equity, community providers are essential to reach WHO targets for the elimination of several NTDs. In the context of NTD control programs, community providers are responsible for the accessible delivery and recording of effective, safe, quality IPC to those who need them, when and where needed and with minimum waste of resources. These individuals are often described as 'volunteers' for the programs and typically do not receive remuneration for their annual contribution as an outpost for the health system. In some situations, remuneration of community providers is specifically discouraged. However, evidence is growing that such a strategy may be unwise as the cost of the decreased program efficiency may be higher than the financial incentives that would be required to motivate and retain quality community providers. The goal of the symposium is to highlight experiences and evidence of how capacity, responsibilities and performance of community providers relate to service delivery in multiple settings. The introduction to the symposium will orient participants to terminology that will be used across the four presentations and the basic overview of the building blocks of health system strengthening. The first presentation will describe the role community providers have played in strengthening the health system for other health interventions, for example, TB and HIV/AIDS, factors which have increased performance and what lessons can be used for NTD control and elimination. The second presentation will review the diversity in roles and scope of community providers and the subsequent relationship with efficacy, costs, scalability, transferability, government ownership and health systems alignment. The third presentation will focus on the contribution of NTD community providers to health systems resiliency and explore supporting financing strategies. The final presentation will explore preliminary data on incentive schemes as part of NTD control programs to improve service delivery and workforce retention across multiple years.

CHAIR

Fiona M. Fleming
Imperial College London, Schistosomiasis Control Initiative, London, United Kingdom

Philip W. Downs
RTI International, Washington DC, United States

8 a.m.

HEALTH SYSTEMS STRENGTHENING AND NTD CONTROL PROGRAMS: CLOSE-TO-COMMUNITY PROVIDERS' EXPERIENCES, OPPORTUNITIES AND CONSTRAINTS

Sally Theobald
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:20 a.m.

WHO ARE THE NTD DRUG DISTRIBUTORS? AN ANALYSIS OF PLATFORMS USED FOR MASS DRUG ADMINISTRATION ACROSS MULTIPLE COUNTRIES

Margaret Baker
RTI International, Washington DC, United States

8:40 a.m.

CONTRIBUTION OF NTD COMMUNITY VOLUNTEERS TO HEALTH SYSTEMS RESILIENCY

Deborah A. McFarland
Emory University, Rollins School of Public Health, Atlanta, United States

9 a.m.

COMMUNITY ENGAGEMENT IN FACILITATING THE DELIVERY OF ALTERNATIVE THERAPIES DURING MDA IN AFRICA

Mary Amuyunzu-Nyamongo
African Institute for Health & Development, Nairobi, Kenya

Scientific Session 107

Dengue: Pathogenesis/Immunology

Marriott - Imperial B

Wednesday, November 16, 8 a.m. - 9:45 a.m.

CHAIR

Richard J. Kuhn
Purdue University, West Lafayette, IN, United States

Rushika Perera
Colorado State University, Fort Collins, CO, United States

8 a.m.

1229

MATURATION OF FLAVIVIRUSES AND ROLE IN DISEASE

Richard J. Kuhn¹, Devika Sirohi¹, Zhenguo Chen¹, Victoria Hendrik¹, Andrew S. Miller¹, Valorie D. Bowman¹, Swati Mukherjee², Michael G. Rossmann¹, Theodore C. Pierson²

¹Purdue University, West Lafayette, IN, United States, ²National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

8:15 a.m.

1230

FLAVIVIRUS NS1 PROTEINS DIFFERENTIALLY INDUCE HYPERPERMEABILITY IN HUMAN ENDOTHELIAL CELL MONOLAYERS FROM DISTINCT TISSUE TYPES

Henry N. Puerta-Guardo, Dustin R. Glasner, Eva Harris
Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States

8:30 a.m.

1231

DISCOVERY OF SMALL MOLECULE BIOMARKERS THAT PROVIDE METABOLIC SIGNATURES TO DIFFERENTIATE DENGUE, CHIKUNGUNYA AND ZIKA VIRUS INFECTIONS AND DENGUE DISEASE SEVERITY

Rushika Perera¹, Kimberly Anderson¹, Kristofor Webb¹, Barbara G. Andre¹, Lionel Gresh², Angel Balmaseda³, Barry Beaty¹, Eva Harris⁴, Carol D. Blair¹
¹Colorado State University, Fort Collins, CO, United States, ²Sustainable Sciences Institute, Managua, Nicaragua, ³Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, ⁴Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, CA, United States

8:45 a.m.

1232

HUMAN DENV2 MONOCLONAL ANTIBODIES TARGET MULTIPLE EPITOPES ON THE ENVELOPE GLYCOPROTEIN

Emily Gallichotte, Doug Widman, Ralph Baric, Aravinda de Silva
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

9 a.m.

1233

USE OF THE DENGUE HUMAN CHALLENGE MODEL TO CHARACTERIZE THE CLINICAL AND IMMUNOLOGICAL RESPONSE TO SEQUENTIAL HETEROTYPIC DENGUE INFECTION

Anna P. Durbin¹, Beth D. Kirkpatrick², Denise Adams¹, Cecilia M. Tibery¹, Palmtama L. Grier¹, Beulah P. Sabundayo¹, Helen He¹, Yolanda Eby¹, Sean A. Diehl², Aravinda de Silva³, Stephen S. Whitehead⁴

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²University of Vermont College of Medicine, Burlington, VT, United States, ³University of North Carolina, Chapel Hill, NC, United States, ⁴National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

9:15 a.m.

1234

HLA DRB1 ALLELIC VARIANTS ARE ASSOCIATED WITH DIFFERENT RESPONSE MAGNITUDE OF DENV SPECIFIC CD4 T CELL RESPONSES AND DISEASE SEVERITY OUTCOMES

Daniela Weiskopf¹, Michael A. Angelo¹, Alba Grifoni¹, John Sidney¹, Sinu Paul¹, Aruna D. de Silva², Aravinda de Silva³, Sunil Premawansa⁴, Gayani Premawansa⁵, Ananda Wijewickrama⁶, Bjoern Peters¹, Alessandro Sette¹

¹La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States, ²Genetech, Colombo, Sri Lanka, ³University of North Carolina, Chapel Hill, NC, United States, ⁴Department of Zoology, Science Faculty, University of Colombo, Colombo, Sri Lanka, ⁵North Colombo Teaching Hospital, Ragama, Colombo, Sri Lanka, ⁶National Institute of Infectious Diseases, Gothatuwa, Angoda, Sri Lanka

9:30 a.m.

1235

ORGAN DAMAGE AND IMMUNOPATHOLOGICAL FEATURES IN FATAL DENGUE CASES

Jaime Gonzalez-Cardona¹, Carlos Pardo-Villamizar², Diego Vargas¹, Julio Mantilla³, Beatriz Parra¹, Anilza Bonelo¹

¹Universidad del Valle, Cali, Colombia, ²Johns Hopkins School of Medicine, Baltimore, MD, United States, ³Universidad Industrial de Santander, Bucaramanga, Colombia

Scientific Session 108

Protozoa

Marriott - Marquis A

Wednesday, November 16, 8 a.m. - 9:45 a.m.

CHAIR

Boris Striepen

University of Georgia, Athens, GA, United States

Genevieve Wojcik

Stanford University School of Medicine, Stanford, CA, United States

8 a.m.

1236

CHRONIC MALNUTRITION DOES NOT IMPAIR THE MEMORY T CELL RESPONSE TO CRYPTOSPORIDIAL INFECTION IN INDIAN CHILDREN

Sudhir Babji¹, Nisha Vincy Jose¹, Deepthi Kattula¹, Honorine Ward², Gagandeep Kang¹

¹Christian Medical College, Vellore, India, ²Tufts Medical Center, Boston, MA, United States

8:15 a.m.

1237

GENETIC LINKS BETWEEN SYMPTOMATIC *ENTAMOEBIA HISTOLYTICA* INFECTION AND INFLAMMATORY BOWEL DISEASE

Genevieve L. Wojcik¹, Chelsea Marie², Josyf C. Mychaleckyj², Stephen Rich², Patrick Concannon³, Rashidul Haque⁴, Beth Kirkpatrick⁵, William A. Petri Jr.², Priya Duggal⁶

¹Stanford University School of Medicine, Stanford, CA, United States, ²University of Virginia School of Medicine, Charlottesville, VA, United States, ³University of Florida, Gainesville, FL, United States, ⁴International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁵University of Vermont College of Medicine, Burlington, VT, United States, ⁶Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

8:30 a.m.

1238

RESPIRATORY TRACT CRYPTOSPORIDIOSIS IS COMMON IN HIV-SERONEGATIVE CHILDREN WITH INTESTINAL CRYPTOSPORIDIUM AND COUGH

Grace Ndeezi¹, Siobhan M. Mor², Luke R. Ascolillo³, Josephine Tumuhamey¹, Christine Sheema¹, Jerlyn Sponseller⁴, Lucy Asio¹, Peace Ahumuza¹, Hannington B. Tasimwa¹, Harriet Namiro¹, Ritah Nakato¹, Lilian Namuli¹, Sylvia Namande¹, Naome Kilama¹, Gloria Kauda¹, Jolly Rubamarama¹, Saul R. Tzipori⁴, **Jeffrey K. Griffiths**³, James K. Tumwine¹

¹Makerere University College of Medicine, Kampala, Uganda, ²University of Sydney, Sydney, Australia, ³Tufts University School of Medicine, Boston, MA, United States, ⁴Tufts University Cummings School of Veterinary Medicine, Grafton, MA, United States

8:45 a.m.

1239

AZITHROMYCIN AND DOXYCYCLINE ATTENUATE ACANTHAMOEBA VIRULENCE IN A HUMAN CORNEAL TISSUE MODEL

Andrew Pursell¹, Rachel Lau², Andrea K. Boggild³

¹University of British Columbia, Vancouver, BC, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada, ³University of Toronto, Toronto, ON, Canada

(ACMCIP Abstract)

9 a.m.

1240

CRYPTOSPORIDIOSIS IN A HUMANIZED MURINE INTESTINAL TRACT

Andrew Nafziger, Katelynn Atwood, Jae Shin, David Bolick, **Circle A. Warren**
University of Virginia, Charlottesville, VA, United States

9:15 a.m.

1241

IMPACT OF ENTERIC PARASITES ON INTESTINAL MICROBIOTA DIVERSITY AND METAGENOMIC CHANGES IN RURAL ARGENTINIAN AND ECUADORIAN CHILDREN

Rojelio Mejia¹, Rubén O. Cimino², Ashish Damania¹, Rebecca Jeun¹, Patricia E. Bryan¹, Paola Vargas², Marisa Juarez², Pamela S. Cajal², Philip J. Cooper³, Julio Nasser², Alejandro Krolewiecki², Barton Slatko⁴

¹Baylor College of Medicine, Houston, TX, United States, ²Universidad Nacional de Salta, Salta, Argentina, ³Universidad Internacional De Ecuador, Quito, Ecuador, ⁴New England BioLabs, Inc., Ipswich, MA, United States

9:30 a.m.

1242

THE GENOME SEQUENCE OF ANTHROPONOTIC *CRYPTOSPORIDIUM PARVUM*

Olukemi O. Ifeonu¹, Giovanni Widmer², Myron M. Levine³, Saul Tzipori², Joana C. Silva¹

¹Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, ²Department of Infectious Disease and Global Health, Cummings School of Veterinary Medicine at Tufts University, North Grafton, MA, United States, ³Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

Scientific Session 109

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoans - Molecular Biology

Marriott - Marquis B

Wednesday, November 16, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

John H. Adams

University of South Florida, Tampa, FL, United States

Cristina V. Ariani

Wellcome Trust Sanger Institute, Hinxton, United Kingdom

8 a.m.

1933

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2016. SEE THE PROGRAM UPDATE FOR SPEAKER INFORMATION.

8:15 a.m.

1934

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2016. SEE THE PROGRAM UPDATE FOR SPEAKER INFORMATION.

8:30 a.m.

1243

POPULATION GENOMICS OF *PLASMODIUM FALCIPARUM* TO INFORM THE DESIGN AND EFFICACY OF WHOLE ORGANISM MALARIA VACCINES

Kara A. Moser¹, Amed Ouattara¹, Elliott F. Drabek¹, Sergey Koren², Adam Phillippy², Matt Adams¹, Amadou Niangaly³, Karim Traore³, Abdoulaye K. Kone³, Drissa Coulibaly³, Mahamadou A. Thera³, Ogobara K. Doumbo³, Miriam K. Laufer¹, Matthew B. Laurens¹, Krisada Jongsakul⁴, Chanthap Lon⁵, David Saunders⁴, Kay Thwe Han⁶, Myaing M. Nyunt¹, Robert W. Sauerwein⁷, B. Kim Lee Sim⁸, Toa Li⁸, Mark A. Travassos¹, Shannon Takala Harrison¹, Stephen L. Hoffman⁹, Christopher V. Plowe¹, Joana C. Silva¹

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²National Human Genome Research Institute, Bethesda, MD, United States, ³University Science, Techniques and Technologies, Bamako, Mali, ⁴Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁵Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, ⁶Ministry of Health, Yangon, Myanmar, ⁷Radboud University Medical Center, Nijmegen, Netherlands, ⁸Sanaria Inc., Rockville, MD, United States

8:45 a.m.

1244

GLOBAL LANDSCAPE OF MOLECULAR NETWORKS FOR MALARIA PATHOLOGY REVEALED BY INTEGRATIVE MULTI-OMICS ANALYSIS USING NON-HUMAN PRIMATE ANIMAL MODEL

Yan Tang¹, the MaHPIC Consortium, Mary R. Galinski², Mark P. Styczynski¹
¹Georgia Institute of Technology, Atlanta, GA, United States, ²Emory University, Atlanta, GA, United States

(ACMCIP Abstract)

9 a.m.

1245

PIGGYBAC MUTAGENESIS SCREENING OF THOUSANDS OF *PLASMODIUM FALCIPARUM* GENES REVEALS WHAT A MALARIA PARASITE CAN'T LIVE WITHOUT

Min Zhang¹, Chengqi Wang¹, Thomas D. Otto², Jenna Oberstaller¹, Iraad F. Bronner², Suzanne Li¹, Kenneth Udenze¹, Mathew Mayho², Elizabeth Huckle², Michael A. Quail², Julian C. Rayner², Rays H. Jiang¹, **John H. Adams**¹

¹University of South Florida, Tampa, FL, United States, ²Wellcome Trust Sanger Institute, Hinxton, United Kingdom

(ACMCIP Abstract)

9:15 a.m.

1246

WHOLE GENOME SEQUENCING OF *PLASMODIUM FALCIPARUM* MALARIA PARASITES FROM DRIED BLOOD SPOTS: GATEWAY TO HIGH-RESOLUTION GENOMIC SURVEILLANCE

Cristina V. Ariani¹, William L. Hamilton¹, Samuel Oyola¹, Lucas N. Amenga-Etego², Mihir Kekre¹, Anita Ghansah³, Gavin Rutledge¹, Seth Redmond⁴, Magnus Manske¹, Dushyanth Jyothi¹, Thomas D. Otto¹, Kirk Rockett⁵, Chris I. Newbold⁶, Matthew Berriman¹, Dominic Kwiatkowski¹

¹Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ²Navrongo Health Research Centre, Navrongo, Ghana, ³Memorial Institute for Medical Research, Accra, Ghana, ⁴Broad Institute, Cambridge, MA, United States, ⁵Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom, ⁶University of Oxford, Oxford, United Kingdom

(ACMCIP Abstract)

9:30 a.m.

1247

CULTURE-ADAPTATION OF MALARIA PARASITES IS ASSOCIATED WITH NONSENSE MUTATIONS IN SPECIFIC GENES

Antoine Claessens¹, Muna Affara², Samuel A. Assefa³, Dominic Kwiatkowski⁴, David J. Conway³

¹MRC-Gambia, London School of Hygiene & Tropical Medicine, Gambia, ²MRC-Gambia, Fajara, Gambia, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴Wellcome Trust Sanger Institute, Hinxton, United Kingdom

Scientific Session 110

Pneumonia, Respiratory Infections and Tuberculosis I

Marriott - Marquis C

Wednesday, November 16, 8 a.m. - 9:45 a.m.

CHAIR

Robert Breiman

Emory University, Atlanta, GA, United States

Miwako Kobayashi

Centers for Disease Control and Prevention, Atlanta, GA, United States

Wednesday
November 16

8 a.m.

1248

TRANSCRIPTIONAL AND PROTEOMIC CATEGORIZATION OF THE ETIOLOGY OF PNEUMONIA SYNDROME IN PEDIATRIC PATIENTS IN MALARIA ENDEMIC AREAS

Danny A. Milner¹, Jacob Silterra², Michael A. Gillette³, Miguel Lanaspá⁴, Karell G. Pelle², Clarissa Valim⁵, Rushy Ahmad², Sozinho Acacio⁶, Katherine D. Almendinger², Yan Tan², Lola Madrid⁴, Pedro Alonso⁴, Steven A. Carr², Roger C. Wiegand², Quique Bassat⁴, Jill Mesirov⁷, Dyann F. Wirth⁵

¹Brigham and Women's Hospital, Boston, MA, United States, ²Broad Institute, Cambridge, MA, United States, ³Massachusetts General Hospital, Boston, MA, United States, ⁴ISGlobal, Barcelona, Spain, ⁵Harvard Chan School of Public Health, Boston, MA, United States, ⁶CISM, Maputo, Mozambique, ⁷University of California San Diego, San Diego, CA, United States

8:15 a.m.

1249

RISK FACTORS FOR SECONDARY HOUSEHOLD TRANSMISSION OF INFLUENZA VIRUS AH3N2 IN THE PERUVIAN NORTHERN COAST

Sebastian Loli¹, Yeny Tinoco¹, Candice Romero¹, Joan Neyra¹, Giselle Soto¹, Andres G. Lescano², Eduardo Azziz-Baumgartner³, Daniel G. Bausch¹

¹U.S. Naval Medical Research Unit - 6 Peru, Callao, Peru, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Influenza Division, Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m.

1250

DISTRICT TRENDS IN UNDER-FIVE PNEUMONIA MORTALITY IN MALAWI, 2000-2014

Karen Finnegan¹, Norman Lufesi², Mercy Chimbalanga³, Patrick Naphini², Ernest Kaludzuzi², Lewis Gombwa⁴, Bethred Matipwiri⁵, Amos Misomali⁶, Neff Walker¹, Melissa A. Marx¹

¹Johns Hopkins University, Baltimore, MD, United States, ²Ministry of Health, Lilongwe, Malawi, ³Bwaila Hospital, Lilongwe, Malawi, ⁴National Statistical Office of Malawi, Lilongwe, Malawi, ⁵Salima District Health Office, Salima, Malawi, ⁶Johns Hopkins University, Lilongwe, Malawi

8:45 a.m.

1251

EPIDEMIOLOGY OF INFLUENZA AMONG SEVERE ACUTE RESPIRATORY INFECTIONS — DAMANHOUR, EGYPT, 2009-2015

Erik J. Reaves¹, Adel Mansour², Hoda Mansour², Sahar El Alkamy³, Mostafa Maroof², Sahar El Shorbagy³, Samir Refaey³, Mohammad Genidy³, Salma Affifi², Mark Wooster¹, Amr Kandeel³

¹Centers for Disease Control and Prevention, Cairo, Egypt, ²U.S. Naval Medical Research Unit - 3, Cairo, Egypt, ³Ministry of Health and Population, Cairo, Egypt

9 a.m.

1252

QUALITY OF CASE MANAGEMENT OF PNEUMONIA AND DIARRHEA IN CHILDREN AGED <5 YEARS: RESULTS FROM A HEALTH FACILITY SURVEY IN SOUTHERN MALAWI IN JANUARY-MARCH 2015

Miwako Kobayashi¹, Dyson Mwandama², Humphreys Nsona³, Ruth Namuyinga¹, Minica Shah¹, Andy Bauleni², Alexander Rowe¹, Don Mathanga², Laura Steinhart¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Malaria Alert Centre, Blantyre, Malawi, ³Ministry of Health, Lilongwe, Malawi

9:15 a.m.

1253

NEGLECTED TROPICAL POPULATIONS: THE BURDEN OF INFLUENZA IN THE ELDERLY, THAILAND

Kim A. Lindblade¹, Prabda Praphasiri¹, Malinee Chittaganpitch², Supakit Sirilak², Siriluk Jaichuang², Darunee Ditsungnoen¹, Fatimah Dawood³, Kriengkrai Prasert²

¹Centers for Disease Control and Prevention-Thailand, Bangkok, Thailand, ²Thailand Ministry of Public Health, Bangkok, Thailand, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

9:30 a.m.

1254

ROLE OF NASOPHARYNGEAL PNEUMOCOCCAL DENSITY IN THE EVOLUTION OF ACUTE RESPIRATORY ILLNESSES IN YOUNG PERUVIAN CHILDREN

Roger R. Fan¹, Leigh M. Howard², Marie R. Griffin³, Kathryn M. Edwards², Yuwei Zhu⁴, John V. Williams⁵, Jorge E. Vidal⁶, Keith P. Klugman⁶, Ana I. Gil⁷, **Claudio F. Lanata⁷**, Carlos G. Grijalva³

¹School of Medicine, Vanderbilt University, Nashville, TN, United States, ²Department of Pediatrics, School of Medicine, Vanderbilt University, Nashville, TN, United States, ³Health Policy, Vanderbilt University, Nashville, TN, United States, ⁴Biostatistics, Vanderbilt University, Nashville, TN, United States, ⁵Pediatrics, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Rollins School of Public Health, Emory University, Atlanta, GA, United States, ⁷Instituto de Investigacion Nutricional, Lima, Peru

Scientific Session 111

Malaria: Diagnostics

Marriott - Marquis D

Wednesday, November 16, 8 a.m. - 9:45 a.m.

CHAIR

Johanna P. Daily

Albert Einstein College of Medicine, Bronx, NY, United States

Carolyne M. Kifude

U.S. Army Medical Research Directorate-Kenya, Kisumu, Kenya

8 a.m.

1255

DEVELOPMENT AND CLINICAL PERFORMANCE OF A HIGH THROUGHPUT LOOP-MEDIATED ISOTHERMAL AMPLIFICATION SYSTEM FOR THE DETECTION OF MALARIA

Rushini S. Perera¹, Xavier C. Ding², Frank Tully³, James Oliver³, Nigel Bright⁴, David Bell⁵, Peter L. Chiodini¹, Iveth J. Gonzalez², Spencer D. Polley¹

¹Department of Clinical Parasitology, Hospital for Tropical Diseases, University College London Hospitals NHS Foundation Trust, London, United Kingdom, ²FIND, Geneva, Switzerland, ³42 Technology Ltd., Cambridgeshire, United Kingdom, ⁴Porvair Sciences Ltd., Norfolk, United Kingdom, ⁵Global Health Technologies, Global Good Fund (Intellectual Ventures Lab), Bellevue, WA, United States

8:15 a.m.

1256

DEVELOPMENT OF HIGHLY ACCURATE QPCR ASSAYS FOR QUANTIFICATION OF SUB-MICROSCOPIC MALARIA PARASITES IN ASYMPTOMATIC POPULATION

Carolyne M. Kifude¹, Deborah M. Stiffler², Robin H. Miller², Emily Parsons², Claire Wortmann², Stephen O. Ocholla¹, John N. Waitumbi¹, Shirley Luckhart³, Janet Oyieko¹, V. Ann Stewart²

¹U.S. Army Medical Research Directorate-Kenya, Kisumu, Kenya, ²Uniformed Services University of Health Sciences, Bethesda, MD, United States, ³Medical Microbiology and Immunology, School of Medicine, University of California Davis, Davis, CA, United States

8:30 a.m.

1257

VALIDATION OF ULTRASENSITIVE DETECTION OF ASYMPTOMATIC MALARIA USING DRIED BLOOD SPOTS

Kayvan Zainabadi¹, Matthew Adams¹, Zay Yar Han², Hnin Wai Lwin², Kay Thwe Han², Myaing Nyunt¹, Christopher Plowe¹

¹Institute for Global Health, Division of Malaria Research, University of Maryland School of Medicine, Baltimore, MD, United States, ²Department of Medical Research, Ministry of Health, Yangon, Myanmar

8:45 a.m.

1258

DETECTION OF PLASMODIUM FALCIPARUM DNA IN SALIVA SAMPLES STORED AT ROOM TEMPERATURE: POTENTIAL FOR A NON-INVASIVE SALIVA-BASED DIAGNOSIS OF MALARIA

Obadiah Mfuh Kenji¹, Livo Esemu², Samuel Tassi Yunga¹, Obase Bekindaka², Jessica Yonga², Palmer Masumbe Netongo², Diane W. Taylor¹, Rose G. Leke², Vivek R. Nerurkar¹

¹University of Hawaii, Honolulu, HI, United States, ²Biotechnology Center, University of Yaounde I, Yaounde, Cameroon

9 a.m.

1259

STIMULATING THE MARKET FOR MALARIA RDTs: NOVEL INSIGHTS FROM REAL-WORLD PROGRAMMING FOCUSED ON PRIVATE SECTOR SERVICE DELIVERY AND MARKET DEVELOPMENT

Nikki Charman, Andrea Cutherell, Stephen Poyer, Stephanie Dolan, Cristina Lussiana, Victor Lara

Population Services International, Nairobi, Kenya

9:15 a.m.

1260

SINGLE CELL FUNCTIONAL ARTEMISININ RESISTANCE IN CLINICAL STRAINS OF P. FALCIPARUM MALARIA

Alassane Mbengue¹, Carolyn Shirey², Souvik Bhattacharjee¹, Innocent Safeukui¹, Robert Stahelin², Kasturi Haldar¹

¹Notre Dame University, Notre Dame, IN, United States, ²Indiana University School of Medicine, South Bend, IN, United States

9:30 a.m.

1261

DELETIONS OF PFHRP2 AND PFHRP3 IN RDT-NEGATIVE PLASMODIUM FALCIPARUM ISOLATES FROM UGANDA

Sam L. Nsobya¹, Elizabeth Namirembe², Andrew Walakira², Moses Kiggundu², Emma Ruhamyankaka², Emmanuel Arinaitwe², Moses Kanya², Doresy Grant³, Philip J. Rosenthal³

¹Makerere University, Kampala, Uganda, ²Infectious Diseases Research Collaboration, Kampala, Uganda, ³Department of Medicine, University of California San Francisco, San Francisco, CA, United States

(ACMCIP Abstract)

Scientific Session 112

Kinetoplastida: Diagnosis, Treatment and Vaccine Development

Marriott - Room M103/M104/M105

Wednesday, November 16, 8 a.m. - 9:45 a.m.

CHAIR

Frederick S. Buckner

University of Washington, Seattle, WA, United States

Edgar M. Carvalho

Federal University of Bahia, Salvador, Brazil

8 a.m.

1262

THE DILEMMAS OF CONGENITAL CHAGAS DISEASE SCREENING IN AN ENDEMIC SETTING

Louisa A. Messenger¹, Gerson Galdos-Cardenas², Malasa Jois³, Victoria Rendell⁴, Vishal Shah⁵, Edward Valencia⁶, Leny Sanchez⁶, Janet Acosta⁶, Manuela Verastegui⁶, Gerardo Sanchez⁶, Remo Gonza⁶, Robert Gilman²

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Brown University, Providence, RI, United States, ⁴Duke University, Durham, NC, United States, ⁵St. Louis University School of Medicine, St. Louis, MO, United States, ⁶Universidad Peruana Cayetano Heredia, Lima, Peru

8:15 a.m.

1263

TARGETING TRYPANOSOMA CRUZI METHIONYL-TRNA SYNTHETASE FOR NOVEL TREATMENT OF CHAGAS DISEASE

Frederick S. Buckner, Ranae M. Ranade, John R. Gillespie, Zhongsheng Zhang, Ximena Barros-Alvarez, Christophe C. Verlinde, Wim G. Hol, Erkang Fan
University of Washington, Seattle, WA, United States

8:30 a.m.

1264

NOVEL EXTRACTION PROTOCOL AND RECOMBINASE POLYMERASE AMPLIFICATION ASSAY FOR DETECTION OF LEISHMANIA DONOVANI IN 30 MINUTES

Dinesh Mondal¹, Prakash Ghosh¹, Md. Anik Ashfaq Khan¹, Faria Hossain¹, Susanne Böhlken-Fascher², Greg Matlashewski³, Axel Kroeger⁴, Piero Olliaro⁵, **Ahmed Abd El Wahed²**

¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Georg-August University, Goettingen, Germany, ³McGill University, Montreal, QC, Canada, ⁴University Medical Centre Freiburg, Freiburg, Germany, ⁵UNICEF/UNDP/World Bank/World Health Organization Special Programme for Research and Training in Tropical Diseases, Geneva, Switzerland

8:45 a.m.

1265

SPECTRUM OF BACTERIAL PATHOGENS IN INFLAMMATORY CUTANEOUS ULCERS OF AMERICAN TEGUMENTARY LEISHMANIASIS

Ruwandi Kariyawasam¹, Rachel Lau², Jordan K. Mah¹, Braulio Valencia³, Alejandro Llanos-Cuentas³, Andrea K. Boggild¹

¹University of Toronto, Toronto, ON, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada, ³Instituto de Medicina Tropical "Alexander von Humboldt", Lima, Peru

(ACMCIP Abstract)

9 a.m.

1266

"CHAGAS DISEASE: A PROSPECTIVE THERAPEUTIC COHORT WITH 12 MONTHS FOLLOW-UP, ANALYZING ADVERSE DRUG REACTIONS, THERAPEUTIC FAILURE AND SEEKING FOR BIOMARKERS"

Carlos H. Moreira¹, Noemia B. Carvalho², Rosário Q. Ferrufino², Lea C. Oliveira³, José A. Lindoso⁴, Erika Manuli⁵, Marcela De Souza⁵, Ester C. Sabino⁶

¹Laboratory of Parasitology (LIM46), Tropical Medicine Institute of São Paulo, University of São Paulo; Institute of Infectology Emilio Ribas, Sao Paulo, Brazil, ²Division of Infectious Diseases, Hospital das Clínicas de São Paulo, School of Medicine, University of São Paulo, Sao Paulo, Brazil, ³Laboratory of Medicine Laboratorial (LIM03), Hospital das Clínicas de São Paulo, School of Medicine, University of São Paulo, Sao Paulo, Brazil, ⁴Laboratory of Seroepidemiology from Institute of Tropical Medicine from São Paulo, Brazil; Institute of Infectology Emilio Ribas, Sao Paulo, Brazil, ⁵Laboratory of Parasitology (LIM46), Tropical Medicine Institute of São Paulo, University of São Paulo, São Paulo, Brazil, Sao Paulo, Brazil, ⁶Laboratory of Parasitology (LIM46), Tropical Medicine Institute of São Paulo, University of São Paulo; Division of Infectious Diseases, Hospital das Clínicas de São Paulo, School of Medicine, University of São Paulo, Sao Paulo, Brazil

9:15 a.m.

1267

TOWARDS SENSITIVE AND LESS INVASIVE DIAGNOSIS OF VISCERAL LEISHMANIASIS IN SUDAN USING LAMP

Maowia Mukhtar¹, Sababil S S. Ali¹, Salah M. Boshara¹, Sahar M. Bakiet¹, Audrey Albertini², Séverine Monnerat², Paul Bessell², Joseph Ndung'u², Israel Cruz²

¹Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan, ²Foundation for Innovative New Diagnostics-FIND, Geneva, Switzerland

9:30 a.m.

1268

ASSESSING IN VITRO AND IN VIVO ACTIVITY OF MILTEFOSINE AGAINST *TRYPANOSOMA CRUZI*

Julián E. Gulín¹, Jaime Altcheh¹, Margarita Bisio¹, Daniela M. Rocco¹, María E. Solana², Facundo García-Bournissen¹

¹Service of Parasitology and Chagas Disease - "Dr. Ricardo Gutiérrez" Children Hospital, Buenos Aires, Argentina, ²Research Institute in Microbiology and Medical Parasitology (IMPAM) - Faculty of Medicine - University of Buenos Aires, Buenos Aires, Argentina

Scientific Session 113

Malaria: Chemotherapy for Control and Elimination

Marriott - Atrium A

Wednesday, November 16, 8 a.m. - 9:45 a.m.

CHAIR

Miriam Laufer

University of Maryland, Baltimore, MD, United States

Catherine Maiteki

Infectious Disease Research Collaboration, Kampala, Uganda

8 a.m.

1269

OPTIMIZING SEASONAL MALARIA CHEMOPREVENTION (SMC) IN AFRICA: ESTIMATING THE IMPACT OF INCREASING THE NUMBER OF SMC CYCLES ON THE NUMBER OF CHILDREN PROTECTED, THE MALARIA BURDEN AND COST-EFFECTIVENESS

Matthew Cairns¹, Patrick G. Walker², Jamie T. Griffin³, Paul J. Milligan¹, Azra C. Ghani²

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Imperial College London, London, United Kingdom, ³Queen Mary University of London, London, United Kingdom

8:15 a.m.

1270

EVALUATION OF THE IMPACT OF SEASONAL MALARIA CHEMOPREVENTION ON MORTALITY AND MORTALITY IN YOUNG CHILDREN IN NORTHERN GHANA

Patrick O. Ansah¹, Nana Akosua Ansah¹, Keziah Malm², Dennis Awuni¹, Nana Yaw Peprah², Timothy Awine¹, Charles Manful¹, Abraham R. Oduro¹

¹Navrongo Health Research Centre, Navrongo, Ghana, ²National Malaria Control Programme, Accra, Ghana

8:30 a.m.

1271

EVALUATING THE COMMUNITY-LEVEL IMPACT OF INTERMITTENT PREVENTIVE TREATMENT OF SCHOOLCHILDREN FOR MALARIA IN JINJA, UGANDA: A CLUSTER-RANDOMIZED TRIAL

Catherine Maiteki-Sebuguzi¹, Andrea M. Rehman², Simon P. Kigozi¹, Samuel Gonahasa¹, Steve Lindsay³, Clare I. Chandler², Grant Dorsey⁴, Moses R. Kamya⁵, Chris Drakeley², Sarah G. Staedke²

¹Infectious Diseases Research Collaboration, Kampala, Uganda, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Durham University,

Durham, United Kingdom, ⁴University of California San Francisco, San Francisco, CA, United States, ⁵Makerere University, Kampala, Uganda

8:45 a.m.

1272

BASELINE FREQUENCIES OF MOLECULAR MARKERS OF DRUG RESISTANCE BEFORE SCALING-UP ACCESS TO SEASONAL MALARIA CHEMOPREVENTION IN SEVEN COUNTRIES ACROSS THE SAHEL

Khalid Beshir¹, Julian Muwanguzi¹, Daugla Doumagoum², Jean-Pierre Gami², Issaka Zongo³, Jean Bosco Ouedraogo³, Serign Ceesay⁴, Kalifa Bojang⁴, Ibrahim Laminou⁵, Issaka Sagara⁵, Alassane Dicko⁶, Abdoulaye Djimde⁶, Kovana M. Loua⁷, Sonny Ogboi⁸, Tony Eloike⁸, Philippe Guerin⁹, Sylvia Meek¹⁰, Jean Louis NDiaye¹¹, Abdoulaye Diallo¹¹, Corinne Merle¹², Matthew Cairns¹, Paul J. Milligan¹, Colin J. Sutherland¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²CSSI, N'Djamena, Chad, ³IRSS, Bobo-Dioulasso, Burkina Faso, ⁴MRC Laboratories, Fajara, Gambia, ⁵CERMES, Niamey, Niger, ⁶MRTC, Bamako, Mali, ⁷Gamal Abdel Nasser University, Conakry, Guinea, ⁸JEDIMA, Abuja, Nigeria, ⁹WWARN, Oxford, United Kingdom, ¹⁰Malaria Consortium, London, United Kingdom, ¹¹Universite Cheikh Anta Diop, Dakar, Senegal, ¹²Special Programme for Research and Training in Tropical Diseases, World Health Organization, Geneva, Switzerland

(ACMCIP Abstract)

9 a.m.

1273

DIHYDROARTEMISIN-PIPERAQUINE FOR SEASONAL MALARIA CHEMOPREVENTION

Issaka Zongo¹, Paul J. Milligan², Joel Tarning³, Francois Nosten⁴, Jean Bosco Ouedraogo¹

¹Institut de recherche en Science de la Santé, Bobo-Dioulasso, Burkina Faso, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Mahidol Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Bangkok, Thailand, ⁴Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Mae Sot, Thailand

9:15 a.m.

1274

COMPARATIVE IMPACTS OF ANTENATAL MALARIA PREVENTION STRATEGIES ON *P. FALCIPARUM* SP-RESISTANCE ALLELES IN MALAWI

Brandt Levitt¹, Mwayiwawo Madanitsa², Feiko O. ter Kuile³, Kyaw Thwai⁴, Victor Mwapasa², Linda Kalilani-Phiri², Steven R. Meshnick⁴, Steve M. Taylor¹

¹Duke University Medical Center, Durham, NC, United States, ²University of Malawi, Blantyre, Malawi, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁴University of North Carolina, Chapel Hill, NC, United States

9:30 a.m.

1275

EVALUATION OF TARGETED MASS TREATMENT OF MALARIA IN TANINTHARYI REGION, MYANMAR: PRELIMINARY RESULTS

Aye Aye Khaing¹, Phyo M. Maung¹, Kayvan Zainabadi², Matthew Adams², Kay Thwe Han³, Aung Thi⁴, Adam Richards¹, Christopher V. Plowe², Myaing M. Nyunt², Si Thura¹

¹Community Partners International, Yangon, Myanmar, ²University of Maryland School of Medicine Institute for Global Health, Baltimore, MD, United States, ³Department of Medical Research, Ministry of Health, Yangon, Myanmar, ⁴National Malaria Control Program, Department of Public Health, Ministry of Health, Yangon, Myanmar

Symposium 114

Febrile Illness - Epidemiology, Diagnostics, Management

Marriott - Atrium B

Wednesday, November 16, 8 a.m. - 9:45 a.m.

Although fever is a common symptom, "Febrile Illness" is underappreciated as an independent syndrome compared with well-known counterparts pneumonia, diarrhea and malaria. As malaria incidence declines, it has become apparent that the majority of clinical diagnoses of malaria are incorrect, that outcomes of such patients are comparatively poor, thus the importance of identifying and managing the other etiologies of fever has become of paramount importance. Laboratory diagnosis for diverse entities is difficult, however, particularly in field settings. Therefore, this symposium will provide a modern update on the current epidemiology of febrile illness, an update on laboratory diagnostics for diverse causes of fever, an update on clinical trials to evaluate triage and management of fever, and an update on inpatient management of critically ill patients with fever.

CHAIR

Eric R. Houpt

University of Virginia, Charlottesville, VA, United States

John Crump

University of Otago, Dunedin, New Zealand

8 a.m.

INSIGHTS ON GLOBAL EPIDEMIOLOGY OF SEVERE FEBRILE ILLNESS

John Crump

University of Otago, Dunedin, New Zealand

8:20 a.m.

MOLECULAR DIAGNOSTICS AND TAQMAN ARRAY CARD FOR THE ETIOLOGY OF FEVER

Eric R. Houpt

University of Virginia, Charlottesville, VA, United States

8:40 a.m.

CRP POINT-OF-CARE TESTS IN THE MANAGEMENT OF FEBRILE PATIENTS IN PRIMARY CARE IN SOUTHEAST ASIA

Yoel Lubell

Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

9 a.m.

CLINICAL ASSESSMENT, SCORING SYSTEMS AND MANAGEMENT OF SEVERE SEPSIS IN SUB-SAHARAN AFRICA

Chris Moore

University of Virginia, Mbarara University of Science and Technology, Charlottesville, VA, United States

Symposium 115

Understanding, Detecting, Preventing the Fertilization of *Plasmodium* Parasites

Marriott - Room A601

Wednesday, November 16, 8 a.m. - 9:45 a.m.

To meet the goal of malaria elimination/eradication, the highest priority should be given to targeting the entire *Plasmodium* life cycle. Despite progress in many areas, e.g. the investigation on *Plasmodium vivax* hypnozoites and *Plasmodium falciparum* mature gametocytes, the understanding of some key biological processes of the *Plasmodium* life cycle remains very limited, with few, if any, tools to diagnose and target them in natural infections. One of these processes is fertilization, an event that takes place in the mosquito gut minutes after ingestion of a gametocyte-infected blood meal. Fertilization is absolutely required for transmission to occur. Present knowledge of *Plasmodium* fertilization derives mainly from studies on the mouse parasite *Plasmodium berghei* as, unlike for *P. falciparum*, this process can be reproduced *in vitro* with a high efficiency. Although antigens recognized by transmission-blocking antibodies have been identified on the surface of *P. falciparum* and *P. vivax* gametes, no specific markers of fertilization exist to measure this process *in vitro* and to detect fertilization in natural infections. The symposium aims at stimulating discussion on the importance to understand the biology of fertilization and at emphasizing the need for the development of novel strategies to prevent fertilization and block malaria parasite transmission.

CHAIR

Pietro Alano

Istituto Superiore di Sanità, Rome, Italy

Marcelo Jacobs-Lorena

Johns Hopkins School of Public Health, Baltimore, MD, United States

8 a.m.

TARGETING MOLECULAR INTERACTIONS ESSENTIAL FOR *PLASMODIUM* FERTILIZATION

Marcelo Jacobs-Lorena

Johns Hopkins School of Public Health, Baltimore, MD, United States

8:20 a.m.

TRANSCRIPTIONAL CONTROL IN *PLASMODIUM* SEXUAL DEVELOPMENT AND DISCOVERY OF GENES INVOLVED IN GAMETE INTERACTIONS

Oliver Billker

Wellcome Trust Sanger Institute, Hinxton, United Kingdom

8:40 a.m.

COMPARATIVE STUDIES IN *PLASMODIUM* AND THE GREEN ALGA *CHLAMYDOMONAS* ILLUMINATE ANCIENT MECHANISMS IN THE GAMETE MEMBRANE FUSION REACTION

William J. Snell

University of Maryland, College Park, MD, United States

9 a.m.

IDENTIFICATION OF MOLECULAR MARKERS FOR GAMETOCYTE ACTIVATION IN A TRANSCRIPTOMIC EFFORT

Sanna Rijpma

Radboud University Medical Center, Nijmegen, Netherlands

Scientific Session 116

Arthropods: Other Arthropods

Marriott - Room A703/A704

Wednesday, November 16, 8 a.m. - 9:45 a.m.

CHAIR

Damaris K. Matoke

International Centre of Insect Physiology and Ecology, Nairobi, Kenya

Brooke E. Miers

University of Notre Dame, Eck Institute for Global Health, South Bend, IN, United States

8 a.m.

1276**Aedes albopictus at altitude: What cost for Chikungunya and Dengue transmission?**

Fadila Amraoui¹, Aurélien Mercier¹, Enkelejda Velo², Ada Shukullari², Anna-Bella Failloux¹, Paul Reiter¹

¹Institut Pasteur, Paris, France, ²Institute of Public Health, Tirana, Albania

8:15 a.m.

1277**Assessing the potential risk factors associated with nodding syndrome in northern Uganda**

Brooke E. Miers¹, Jonathan Kayondo², Richard Echodu³, Julius Lutwama², John Grieco¹, Lacey Ahern¹

¹University of Notre Dame, South Bend, IN, United States, ²Uganda Virus Research Institute, Entebbe, Uganda, ³Gulu University, Gulu, Uganda

8:30 a.m.

1278**Achieving the visceral leishmaniasis elimination target in India with effective vector monitoring**

Rinki M. Deb¹, Geraldine M. Foster¹, Rudra P. Singh², Vijay Kumar², Pradeep Das², Michael C. Coleman¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Rajendra Memorial Research Institute of Medical Sciences, Patna, India

8:45 a.m.

1279**Sandfly occurrence, distribution and diversity in Leishmania endemic regions in Kenya**

Damaris K. Matoke-Muhia¹, Tobias Landmann¹, Philip Ngumbi², Milkah Mwangi², Johnstone Ingonga², Hellen Nyakundi³, Richard Wamai⁴, Joseph Wang'ombe³, Daniel Masiga¹

¹International Centre of Insect Physiology and Ecology, Nairobi, Kenya, ²Kenya Medical Research Institute, Nairobi, Kenya, ³University of Nairobi, Nairobi, Kenya, ⁴Northeastern University, Boston, MA, United States

9 a.m.

1280**Evolution of Glossina fuscipes s.l. in human African trypanosomiasis foci - Evidence for cryptic species**

Allan Muhwezi¹, Enock Matovu¹, Martin J. Donnelly², Stephen J. Torr²

¹Makerere University, Kampala, Uganda, ²Vector Group, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9:15 a.m.

1281**Spatio-temporal analysis and Trypanosoma cruzi (agent of Chagas disease) infection prevalence of citizen-collected triatomine vectors across the southern USA**

Rachel Curtis-Robles¹, Lisa D. Auckland¹, Sage Lane¹, Michael Z. Levy², Gabriel L. Hamer¹, Sarah A. Hamer¹

¹Texas A&M University, College Station, TX, United States, ²University of Pennsylvania, Philadelphia, PA, United States

9:30 a.m.

1282**Barcoded live arthropod screens for high throughput discovery of novel vector control agents**

Maarten Eldering¹, Angelika Sturm¹, Martijn Vos¹, Rob Henderson¹, Sijja Li², Geert-Jan van Gemert³, Robert Sauerwein¹, Matthew Tremblay², Koen Decherig¹

¹TropIQ Health Sciences, Nijmegen, Netherlands, ²California Institute for Biomedical Research, San Diego, CA, United States, ³Radboud University Medical Center, Nijmegen, Netherlands

Scientific Session 117

Malaria: Control interventions - Operational innovations and challenges

Marriott - Room A706/A707

Wednesday, November 16, 8 a.m. - 9:45 a.m.

CHAIR

Susan Dierickx

Vrije Universiteit Brussel, Brussels, Belgium

Kent Kester

Sanofi Pasteur, Swiftwater, PA, United States

8 a.m.

1283**A randomized controlled trial of the neuropsychological benefits of computerized cognitive rehabilitation training in Ugandan children surviving severe malaria**

Michael J. Boivin¹, Noeline Nakasujja², Alla Sikorskii¹, Horacio Ruisenoir-Escudero¹, Itziar Familiar-Lopez¹, Robert O. Opoka², Bruno Giordani³

¹Michigan State University, East Lansing, MI, United States, ²Makerere University, Kampala, Uganda, ³University of Michigan, Ann Arbor, MI, United States

8:15 a.m.

1284**Assessing the potential toxicity hazard to aquatic life from immersion of insecticide-treated mosquito nets during fishing and washing**

Jessica A. Lawson, Ciaran J. Harman, Edward J. Bouwer

Johns Hopkins University, Baltimore, MD, United States

8:30 a.m.

1285

EVALUATING THE IMPACT OF THE NATIONAL SCALE-UP OF MALARIA CONTROL INTERVENTIONS IN LIBERIA FROM 2004 TO 2013

Samantha Herrera¹, Victor S. Koko², Levi Hinneh², Kwabena Larbi³, Tajrina Hai¹, Sumo Zeze⁴, Forkpa Karmon⁴, James Thompson⁴, William Belleh⁴, Christie Reed⁵, Christie Hershey⁶, Ramlat Jose⁷, Kaa Williams⁷, Gabriel Ponce-de-Leon⁸, Michael Aidoo⁹, Christen Fornadel⁶, Yazoume Ye¹, Oliver Pratt²

¹ICF International, Rockville, MD, United States, ²National Malaria Control Program, Monrovia, Liberia, ³National Malaria Control Program/Management Sciences for Health, Monrovia, Liberia, ⁴Subah-Belleh Associates, Monrovia, Liberia, ⁵President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Monrovia, Liberia, ⁶President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States, ⁷President's Malaria Initiative, U.S. Agency for International Development, Monrovia, Liberia, ⁸President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

8:45 a.m.

1286

THE RELEVANCE OF OUTDOOR RESTING AND SLEEPING FOR BED NET USE IN THE GAMBIA

Susan Dierickx¹, Katja Siling², Julia Mwesigwa³, Charlotte Gryseels², Fatou Jaiteh³, René Gerretts⁴, Umberto D'Alessandro³, Koen Grietens Peeters²

¹Vrije Universiteit Brussel, Brussels, Belgium, ²Institute of Tropical Medicine, Antwerp, Belgium, ³Medical Research Council, The Gambia, Fajara, Gambia, ⁴Amsterdam Institute of Social Science Research, Amsterdam, Netherlands

9 a.m.

1287

COST-EFFECTIVENESS OF SEASONAL MALARIA CHEMOPREVENTION IN UPPER WEST REGION OF GHANA

Justice Nonvignon¹, Genevieve Cecilia Aryeetey¹, Shamwill Issah², Moses Aikins¹

¹University of Ghana/School of Public Health, Accra, Ghana, ²UK Department for International Development, Ghana Office, Accra, Ghana

9:15 a.m.

1288

EXPANDING THE TOOLBOX: A SYSTEMATIC REVIEW LOOKING AT OLD AND NEW VECTOR CONTROL TOOLS

Yasmin A. Williams¹, Lucy S. Tusting², Sophia Hocini¹, Patricia Graves³, Gerry Killeen⁴, Allison Tatarsky¹, Roly Gosling⁵

¹University of California San Francisco, San Francisco, CA, United States, ²Big Data Institute, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom, ³Australian Institute of Tropical Health and Medicine and College of Public Health, Medical and Veterinary Sciences, James Cook University, Cairns, Australia, ⁴Environmental Health and Ecological Sciences Thematic Group, Ifakara Health Institute, Ifakara, United Republic of Tanzania, ⁵University of California San Francisco, San Francisco, CA, United States

9:30 a.m.

1289

COMMUNITY HEALTH WORKERS' PERCEPTIONS OF AND SATISFACTION WITH THEIR ROLE IN IMPLEMENTING A COMMUNITY CASE MANAGEMENT FOR MALARIA PROGRAM: IMPLICATIONS FOR FEASIBILITY AND SCALE-UP

Adriane Lesser¹, Diana Menya², Laura Winn³, Jeremiah Laktabai², Wendy Prudhomme O'Meara⁴, Joy Noel Baumgartner¹

¹Duke Global Health Institute, Durham, NC, United States, ²Moi University (School of Public Health and School of Medicine), Eldoret, Kenya, ³Duke University, Durham, NC, United States, ⁴Duke University Medical Center, Duke Global Health Institute, Moi University School of Public Health, Academic Model Providing Access to Healthcare (AMPATH), Eldoret, Kenya

Exhibit Hall Open

Marriott - International Hall

Wednesday, November 16, 9:30 a.m. - 10:30 a.m.

Coffee Break

Marriott - International Hall

Wednesday, November 16, 9:45 a.m. - 10:15 a.m.

Poster Session C Set-Up

Hilton - Grand Ballroom and Grand Salon

Wednesday, November 16, 9:45 a.m. - 10:15 a.m.

Poster Session C Viewing

Hilton - Grand Ballroom and Grand Salon

Wednesday, November 16, 10:15 a.m. - Noon

TropStop Office Hours

Marriott - Atrium Loft

Wednesday, November 16, 10 a.m. - 11 a.m.

Meet up-and-coming professionals in the fields of tropical medicine, global health, science and industry who will share their personal career paths and answer questions you may have.

PRESENTERS

Nicole L. Achee
University of Notre Dame, Notre Dame, IN, United States

Peter Crompton
National Institutes of Health, Rockville, MD, United States

Symposium 118

Implications of Insecticide Resistance on Malaria Vector Control: Outcomes from a Multi-Country Evaluation

Marriott - Imperial A

Wednesday, November 16, 10:15 a.m. - Noon

Recent progress in reducing malaria disease burden through the substantial scale up of insecticide-based vector control could be reversed by the widespread emergence of insecticide resistance in malaria vectors. However, the actual impact of insecticide resistance on the protective effectiveness of insecticide-treated nets and indoor residual spraying has not been well characterized. In 2009, the WHO Global Malaria Programme with funding from the Bill & Melinda Gates Foundation initiated a multi-country study to ascertain the potential loss of epidemiological effectiveness of these core insecticidal interventions as a result of decreased susceptibility of malaria vectors to the insecticides used. The longitudinal study was completed in four African countries (Benin, Cameroon, Kenya and Sudan) in 2016. This symposium will review key outcomes from the study and discuss the implications for malaria control and elimination.

CHAIR

Tessa B. Knox
World Health Organization, Geneva, Switzerland

Immo Kleinschmidt
London School of Hygiene & Tropical Medicine, London, United Kingdom

10:15 a.m.

IMPLICATIONS OF INSECTICIDE RESISTANCE: OUTCOMES FROM A LONGITUDINAL STUDY ON LLIN EFFECTIVENESS IN AREAS WITH PYRETHROID RESISTANT *AN. GAMBIAE* IN SOUTHERN BENIN

Martin Akogbeto

Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

10:30 a.m.

IMPLICATIONS OF INSECTICIDE RESISTANCE: ASSESSING THE IMPACT OF PYRETHROID RESISTANCE ON MALARIA TRANSMISSION AND DISEASE BURDEN IN AN AREA OF HIGH LLIN COVERAGE IN THE NORTH OF CAMEROON

Jude D. Bigoga

Biotechnology Center and Department of Biochemistry, University of Yaounde I, Yaounde, Cameroon

10:45 a.m.

IMPLICATIONS OF INSECTICIDE RESISTANCE: ASSESSMENT OF THE ENTOMOLOGICAL AND EPIDEMIOLOGICAL IMPACT OF VECTOR CONTROL IN THE PRESENCE OF RESISTANT MALARIA VECTORS, WESTERN KENYA

Charles M. Mbogo

Kenya Medical Research Institute, Nairobi, Kenya

11 a.m.

IMPLICATIONS OF INSECTICIDE RESISTANCE: RCT OF LLINS VS LLINS+IRS IN AN AREA OF PYRETHROID RESISTANT *AN. ARABIENESIS* IN SUDAN

Hmooda Toto Kafy

IVM Unit, Federal Ministry of Health, Sudan, Khartoum, Sudan

11:15 a.m.

IMPLICATIONS OF INSECTICIDE RESISTANCE: KEY EVALUATION FINDINGS AND IMPLICATIONS FOR MALARIA VECTOR CONTROL

Immo Kleinschmidt

London School of Hygiene & Tropical Medicine, London, United Kingdom

Symposium 119

Yellow Fever: Scientific and Logistical Challenges for a Preventable Disease

Marriott - Imperial B

Wednesday, November 16, 10:15 a.m. - Noon

Yellow fever is a mosquito-borne disease endemic in tropical areas of Africa and Latin America. Yellow fever virus is maintained in nature in nonhuman primates and transmitted to humans via mosquitoes, *Aedes aegypti*. The infection-to-disease ratio may be as high as 20:1. The clinical spectrum ranges from asymptomatic infection to severe disease with multi-organ failure and bleeding. Mortality in symptomatic patients ranges from 20-50%. Although the disease has been recognized for centuries, the virus (Flavivirus genus, Flaviviridae) was first isolated in 1927. An effective vaccine, yellow fever 17D, was developed in the early 1900s. Since then, widespread vaccination combined with mosquito control has resulted in a drastic decrease in cases, essentially eliminating large outbreaks of urban yellow fever in Latin the Americas. However, in sub-Saharan Africa, yellow fever vaccination has not been widespread, leaving large susceptible populations, sometimes leading to outbreaks. The global yellow fever vaccine supply has often been insufficient to meet

demands. Consequently, in 2015 yellow fever resurged in Central Africa, with thousands of cases and hundreds of deaths in Angola and the Democratic Republic of the Congo, with imported cases to Kenya and the People's Republic of China. This symposium will discuss the scientific and logistical challenges in combatting yellow fever, reviewing the factors behind recent outbreaks and exploring future solutions for this preventable disease.

CHAIR

Sylvie C. Briand

World Health Organization, Geneva, Switzerland

Pedro Vasconcelos

Instituto Evandro Chagas, MoH, Ananindeua, Brazil

10:15 a.m.

YELLOW FEVER RESURGENCE IN CENTRAL AFRICA: EPIDEMIC RESPONSE, CURRENT VACCINE COVERAGE AND POLICY

Sylvie C. Briand

World Health Organization, Geneva, Switzerland

10:40 a.m.

VIEW FROM THE FIELD: OUTBREAK CONTROL ACTIVITIES DURING THE 2016 YELLOW FEVER OUTBREAK IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Axelle Ronsse

MSF Operational Center of Brussels, Brussels, Belgium

11:05 a.m.

DOSE-SPARING TO ADDRESS VACCINE SHORTFALLS AND FUTURE RESEARCH NEEDS

Thomas P. Monath

BioProtection Systems Corp./NewLink Genetics, Inc., Devens, MA, United States

11:30 a.m.

ADVANCES ON LABORATORY DIAGNOSIS AND IMMUNOPATHOGENESIS

Pedro Vasconcelos

Instituto Evandro Chagas, MoH, Ananindeua, Brazil

Symposium 120

Brain-Eating *Amoebae*: Shining Light on the Most Neglected Tropical Diseases

Marriott - Marquis A

Wednesday, November 16, 10:15 a.m. - Noon

Small, free-living *Amoebae* (FLA) are ubiquitous in nature and are found in soil, fresh water, and marine environments. Most FLA feed on bacteria and are of no medical importance, yet several FLA are known to cause serious, usually fatal disease in humans and animals. *Naegleria fowleri* is the causative agent of primary amoebic meningoencephalitis (PAM), a disease characterized by a fulminant, rapidly fatal encephalitic disease that most often afflicts healthy young people. *Acanthamoeba spp.* cause granulomatous amoebic encephalitis (GAE), a chronic disease seen most often in immunocompromised hosts and those at risk of opportunistic infections. *Acanthamoeba spp.* also cause amoebic keratitis, skin, nasopharyngeal and disseminated infections. *Balamuthia mandrillaris* also causes GAE and is increasing in prevalence. The major problems for these diseases are high fatality rates (97% for PAM), lack of effective therapeutics, and difficulties in diagnosis. This symposium will present the latest advances in diagnosis,

treatment, prevention, target identification and drug discovery for these neglected pathogens. Presentations will include an overview of the diseases and the CDC program on FLA, the basis for the current treatment regimen for PAM, and new approaches for target identification and drug discovery for pathogenic FLA.

CHAIR

Dennis E. Kyle

University of South Florida, Tampa, FL, United States

Ibne K. Ali

Centers for Disease Control and Prevention, Atlanta, GA, United States

10:15 a.m.

DIAGNOSIS, TREATMENT AND PREVENTION OF DISEASES CAUSED BY PATHOGENIC FREE-LIVING AMOEBAE

Jennifer Cope

Centers for Disease Control and Prevention, Atlanta, GA, United States

10:35 a.m.

LESSONS LEARNED FROM SUCCESSFUL TREATMENT OF PRIMARY AMOEBIC MENINGOENCEPHALITIS

W. Matthew Linam

Arkansas Children's Hospital, Little Rock, AR, United States

10:55 a.m.

EXPLOITING 'PHARMAPHYLOGENY' AND 'OMICS' FOR DRUG TARGET IDENTIFICATION IN ACANTHAMOEBA

Craig W. Roberts

University of Strathclyde, Institute of Pharmacy and Biomedical Sciences, Glasgow, United Kingdom

11:15 a.m.

DISCOVERY AND LEAD OPTIMIZATION OF NEW DRUGS TO TREAT CNS INFECTIONS WITH PATHOGENIC FREE-LIVING AMOEBAE

Dennis E. Kyle

University of South Florida, Tampa, FL, United States

Scientific Session 121

Bacteriology: Febrile Illnesses - Leptospirosis and Others

Marriott - Marquis B

Wednesday, November 16, 10:15 a.m. - Noon

CHAIR

Louise Dyson

University of Warwick, Maths Institute, Leamington Spa, United Kingdom

Katharine Owers

Yale School of Public Health, New Haven, CT, United States

10:15 a.m.

1290

DISEASE-SPECIFIC CYTOKINE PROFILES IN PEDIATRIC PATIENTS WITH MALARIAL, HIV, AND SYSTEMIC BACTERIAL INFECTIONS

Benjamin H. McMahon¹, Nicolas Hengartner¹, Harshini Mukundan¹, Sarah Voter¹, Shailja Jakhar¹, John M. Ong'echa², Prakasha Kempaiah³, Zachary Karim³, Douglas J. Perkins³

¹Los Alamos National Laboratory, Los Alamos, NM, United States, ²KEMRI, Kisumu, Kenya, ³University of New Mexico, Albuquerque, NM, United States

10:30 a.m.

1291

COMPARISON OF THE INCIDENCE OF ACUTE LEPTOSPIROSIS IN THE KILIMANJARO REGION OF TANZANIA BETWEEN 2007-08 AND 2012-14

Michael J. Maze¹, Holly M. Biggs², Matthew P. Rubach², Renee L. Galloway³, Shama Cash-Goldwasser⁴, Kathryn J. Allan⁵, Jo E. Halliday⁵, Julian T. Hertz⁴, Wilbrod Saganda⁶, Bingileki Lwezaula⁶, Sarah Cleaveland⁶, Blandina T. Mmbaga⁷, Venance Maro⁷, John A. Crump¹

¹University of Otago, Dunedin, New Zealand, ²Duke University Medical Centre, Durham, NC, United States, ³Centers for Disease Control and Prevention, Bacterial Special Pathogens Branch, Atlanta, GA, United States, ⁴Duke Global Health Institute, Durham, NC, United States, ⁵University of Glasgow, Glasgow, United Kingdom, ⁶Mawenzi Regional Hospital, Moshi, United Republic of Tanzania, ⁷Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania

10:45 a.m.

1292

FINE-SCALE GPS TRACKING TO QUANTIFY HUMAN MOVEMENT PATTERNS AND EXPOSURE TO LEPTOSPIROSIS IN THE URBAN SLUM ENVIRONMENT

Katharine A. Owers¹, Juliana Odetunde², Rosan B. de Matos³, Gielson Sacramento³, Mayara Carvalho³, Nivison N. Júnior³, Federico Costa⁴, Mitermayer G. Reis³, Mike Begon⁵, James E. Childs¹, José E. Hagan¹, Peter J. Diggle⁶, Albert I. Ko¹

¹Yale School of Public Health, New Haven, CT, United States, ²University of Kentucky College of Medicine, Lexington, KY, United States, ³Centro de Pesquisas Gonçalo Moniz, Salvador, Brazil, ⁴Federal University of Bahia, Salvador, Brazil, ⁵University of Liverpool, Liverpool, United Kingdom, ⁶Lancaster University, Lancaster, United Kingdom

11 a.m.

1293

POSTPARTUM INFECTION AT A UGANDAN REGIONAL REFERRAL HOSPITAL: MICROBIOLOGY AND ANTIMICROBIAL RESISTANCE PATTERNS

Lisa M. Bebell¹, Joseph Ngonzi², Joel Bazira², Yarine Fajardo², Adeline A. Boatin¹, Adeline A. Boatin¹, Yves Jacquemyn³, Jean-Pierre van Geertruyden³, Steven J. Schiff⁴, Laura E. Riley¹, David R. Bangsberg¹, Yap Boum Il⁵

¹Massachusetts General Hospital, Boston, MA, United States, ²Mbarara University of Science and Technology, Mbarara, Uganda, ³University of Antwerp, Antwerp, Belgium, ⁴The Pennsylvania State University, Hershey, PA, United States, ⁵Epicentre Research Base, Mbarara, Uganda

11:15 a.m.

1294

EMERGING PATHOGENIC BACTERIUM ELIZABETHKINGIA ANOPHELIS: DIVERSE MOBILE GENETIC ELEMENTS ARE PRESENT ACROSS STRAINS AROUND THE WORLD

Jiannong Xu, Dong Pei, Yuhao Lan

New Mexico State University, Las Cruces, NM, United States

11:30 a.m.

1295

FAILURE OF STRAIN-SPECIFIC IMMUNE INDUCTION TO GROUP A STREPTOCOCCUS MAY UNDERLIE THE EPIDEMIC OF STREPTOCOCCAL PYODERMA: OVERCOMING IMMUNE RESISTANCE THROUGH VACCINATION

Michael F. Good¹, Manisha Pandey¹, Victoria Ozberk¹, Ainslie Calcutt¹, Emma Langshaw¹, Jessica Powell¹, Mei-Fong Ho¹, Zachary Philips¹, Michael Batzloff¹, Tania Rivera Hernandez²

¹Institute for Glycomics, Gold Coast, Australia, ²School of Chemistry and Molecular Biosciences, Brisbane, Australia

11:45 a.m.

1296

HOUSEHOLD MODELLING OF YAWS DATA INDICATES THAT TARGETING TREATMENT USING CASE FINDING AND CONTACT TRACING MAY BE UNSUCCESSFUL AT ERADICATING THE DISEASE

Louise Dyson¹, Oliver Crooks¹, Alex Bishop¹, Anthony Solomon², David Mabey², Oliver Sokana³, Michael Marks², Deirdre Hollingsworth¹

¹University of Warwick, Coventry, United Kingdom, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Solomon Islands Ministry of Health and Medical Services, Honiara, Solomon Islands

Scientific Session 122

Ectoparasite-Borne Diseases

Marriott - Marquis C

Wednesday, November 16, 10:15 a.m. - Noon

CHAIR

David M. Bland

Rocky Mountain Laboratories, Hamilton, MT, United States

Michael E. von Fricken

George Mason University, Fairfax, VA, United States

10:15 a.m.

1297

LONG-TERM EFFECT OF MASS DRUG ADMINISTRATION FOR SCABIES IN FIJI: EXPERIENCE FROM THE SHIFT TRIAL

Lucia Romani¹, Margot Whitfeld², Josefa Koroivueta³, Mike Kama³, Handan Wand¹, Lisi Tikoduadua³, John Kaldor¹, Ross Andrews⁴, Andrew Steer⁵

¹Kirby Institute, Sydney, Australia, ²St Vincent's Hospital, Sydney, Australia, ³Ministry of Health, Suva, Fiji, ⁴Menzies School of Health Research, Sydney, Australia, ⁵Murdoch Childrens Research Institute, Melbourne, Australia

10:30 a.m.

1298

PLAGUE IN MADAGASCAR: LIMITING THE TRANSMISSION BY IMPROVING THE CONTROL OF XENOPSYLLA CHEOPIS, THE MAIN FLEA VECTOR OF YERSINIA PESTIS

Adélaïde Miarinjara, Dora M. Rajohnson, Soanandrasana Rahelinirina, Sébastien Boyer

Institut Pasteur de Madagascar, Antananarivo, Madagascar

10:45 a.m.

1299

SOURCE OF HOST BLOOD AFFECTS LOCALIZATION OF THE BLOOD MEAL AND INFECTION PREVALENCE OF YERSINIA PESTIS IN THE FLEA VECTOR

David M. Bland, Christopher F. Bosio, Clayton O. Jarrett, Bernard J. Hinnebusch
Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, MT, United States

11 a.m.

1300

VECTOR COMPETENCY OF TICK-BORNE RELAPSING FEVER SPIROCHETES

Job E. Lopez, Aparna Krishnavajhala

Baylor College of Medicine, Houston, TX, United States

11:15 a.m.

1301

RETROTRANSPOSON-TARGETED BLOODMEAL REMNANT IDENTIFICATION IDENTIFIES MEADOW VOLES AS THE MAIN HOST FOR SUBADULT DOG TICKS

Heidi Goethert, Sam Telford

Tufts University School of Veterinary Medicine, N. Grafton, MA, United States

11:30 a.m.

1302

UPREGULATION OF SPHERICAL BODY PROTEIN 2 COPY 11 IN BABESIA BOVIS IS A SIGNATURE OF ATTENUATION

Gina M. Gallego López¹, Jacob M. Laughery¹, Carlos E. Suarez², Donald P. Knowles², Audrey O. T. Lau¹

¹Department of Veterinary Microbiology and Pathology, College of Veterinary Medicine, Washington State University, Pullman, WA, United States, ²Animal Disease Research Unit, Agricultural Research Service, United States Department of Agriculture, Pullman, WA, United States

(ACMCIP Abstract)

11:45 a.m.

1303

LARGE-SCALE DRUG SCREENING AGAINST BABESIA DIVERGENS PARASITE USING A FLUORESCENCE-BASED HIGH-THROUGHPUT SCREENING ASSAY

Mohamed A. Rizk¹, Shima A. El-Sayed¹, Mahmoud AbouLaila², Bumduuren Tuvshintulga³, Naoaki Yokoyama³, Ikuo Igarashi³

¹Faculty of Veterinary Medicine, Mansoura University, Mansoura, Egypt, ²Faculty of Veterinary Medicine, University of Sadat City, Sadat City, Egypt, ³National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan

Scientific Session 123

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Kinetoplastida - Molecular, Cellular and Immunobiology

Marriott - Marquis D

Wednesday, November 16, 10:15 a.m. - Noon

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Evan M. Craig

University of Florida, Gainesville, FL, United States

Stefanie Menzies

University of St. Andrews, St. Andrews, United Kingdom

10:15 a.m.

1935

IDENTIFICATION OF BROADLY CONSERVED CROSS-SPECIES PROTECTIVE *LEISHMANIA* ANTIGEN AND ITS RESPONDING CD4+ T CELLS

Zhirong Mou¹, Jintao Li², Dong Liu², Forough Khadem², Ifeoma Okwor², Jude E. Uzonna²

¹Department of Immunology, College of Medicine, University of Manitoba, Winnipeg, MB, United States, ²Department of Immunology, College of Medicine, University of Manitoba, Winnipeg, MB, Canada

10:30 a.m.

1936

A NOVEL POPULATION OF NATURAL KILLER CELLS PLAYS A CRITICAL ROLE IN THE DEPLETION OF SPLENIC B2 B CELLS DURING EXPERIMENTAL AFRICAN TRYPANOSOMIASIS

Deborah Frenkel¹, Samuel J. Black²

¹University of Massachusetts, Department of Veterinary and Animal Sciences, Amherst, MA, United States, ²University of Massachusetts, Amherst, MA, United States

10:45 a.m.

1304

EVALUATION OF INHIBITORS OF *LEISHMANIA PARASITOPHOUS* VACUOLE DEVELOPMENT

Evan M. Craig¹, Charles-Eugene Huyghues-Despointes¹, Samiksha Prasad¹, Jason Sello², Peter E. Kima¹

¹University of Florida, Gainesville, FL, United States, ²Brown University, Providence, RI, United States

(ACMCIP Abstract)

11 a.m.

1305

EVALUATING PKB/AKT AS THE TARGET OF MILTEFOSINE IN *LEISHMANIA* TREATMENT

Naixin Zhang, Charles-Eugene Huyghues-Despointes, Samiksha Prasad, Peter E. Kima

University of Florida, Gainesville, FL, United States

(ACMCIP Abstract)

11:15 a.m.

1306

THE COMPOSITION OF MICROVESICLES DERIVED FROM *LEISHMANIA DONOVANI* INFECTED MACROPHAGES PROVIDES PERSPECTIVES INTO THEIR BIOGENESIS AND CONTRIBUTIONS TO PARASITE PATHOGENESIS

Anna E. Gioseffi, Peter E. Kima

University of Florida, Gainesville, FL, United States

(ACMCIP Abstract)

11:30 a.m.

1307

CHARACTERIZATION OF THE TRYPANOSOMATID SECONDARY ALTERNATIVE OXIDASE - A NOVEL POTENTIAL DRUG TARGET

Stefanie Kate Menzies, Lindsay B. Tulloch, Andrew L. Fraser, Eoin R. Gould, Elizabeth F. King, Marija K. Zacharova, Gordon J. Florence, Terry K. Smith

University of St Andrews, St Andrews, United Kingdom

(ACMCIP Abstract)

11:45 a.m.

1308

UNDERSTANDING THE ROLE OF *LEISHMANIA* RNA VIRUS-1 (LRV-1) IN THE PATHOGENESIS OF AMERICAN TEGUMENTARY LEISHMANIASIS USING A HUMAN MACROPHAGE MODEL

Ruwandi Kariyawasam¹, Jugvinder Grewal¹, Andrew Pursell², Rachel Lau³, Braulio M. Valencia⁴, Alejandro Llanos-Cuentas⁴, Andrea K. Boggild¹

¹University of Toronto, Toronto, ON, Canada, ²University of British Columbia, Vancouver, BC, Canada, ³Public Health Ontario Laboratories, Toronto, ON, Canada, ⁴Instituto de Medicina Tropical "Alexander von Humboldt", Lima, Peru

(ACMCIP Abstract)

Symposium 124

Evaluating Readiness and Quality of Essential Surgical Services: Evidence from Morbidity Management and Disability Prevention of Neglected Tropical Diseases

Marriott - Room M103/M104/M105

Wednesday, November 16, 10:15 a.m. - Noon

With an estimated one-third of global disease burden requiring surgical and or anesthetic care, there is a dire need for countries to improve surgical capacity and overcome barriers to provide surgical care, including for maternal disease, non-communicable diseases, injuries, neonatal disease and neglected tropical diseases (NTDs). Given this great demand for surgical care, a Resolution was passed at the World Health Assembly in May 2015 to make the strengthening of emergency and essential surgical care and anesthesia a component of universal health coverage. Over the last few years, increasing funding and attention has focused on addressing morbidity management and disability prevention (MMDP) associated with NTDs. Surgery to correct hydrocele and trichiasis are essential elements of the elimination programs for lymphatic filariasis and trachoma. However, in order to achieve these goals, a strong foundation of surgical capacity is needed in low-income countries. For single-disease programs, like lymphatic filariasis or trachoma, it is difficult to develop this capacity on their own. Addressing the global surgery burden, requires collaboration among organizations and partners working in different disciplines to join together to address the unmet need of global surgery. This symposium will bring together experts from the neglected tropical diseases (NTD) and the global surgery communities to highlight current tools and methodologies to assess surgical availability, readiness, and quality and to explore opportunities for future collaboration between these two areas. Topics include an overview of the current status of global surgery from a public health perspective including current tools utilized, examples of surgical capacity building for hydrocelectomy in West Africa, examples of implementation of preferred practices for trichomatous trichiasis focusing on work in Burkina Faso and Cameroon, and a discussion of how to assess surgical quality in the context of developing countries. Together, these presentations underscore the challenges and opportunities for global surgery and provide a platform for integration across disease-specific programs to improve surgical care globally.

CHAIR

Danny Haddad
Emory University School of Medicine, Emory Eye Center, Atlanta, GA, United States

LeAnne Fox
Centers for Disease Control and Prevention, Atlanta, GA, United States

10:15 a.m. SETTING THE STAGE FOR SCALING UP SURGICAL SERVICES GLOBALLY

Walter Johnson
World Health Organization, Geneva, Switzerland

10:35 a.m. THE WEST AFRICAN HYDROCELECTOMY PROGRAM: DEVELOPING TOOLS FOR SCALING UP HYDROCELE SERVICES IN LYMPHATIC FILARIASIS-ENDEMIC COUNTRIES

Sunny D. Mante
African Filariasis Morbidity Project/MMDP Project, Accra, Ghana

10:55 a.m. IMPLEMENTING PREFERRED PRACTICES AS A NEW WAY OF DOING BUSINESS IN MANAGEMENT OF TRACHOMATOUS TRICHIASIS: EXPERIENCES FROM BURKINA FASO AND CAMEROON

Awa Dieng
Helen Keller International, Dakar, Senegal

11:15 a.m. ADDRESSING SURGICAL QUALITY IN GLOBAL SURGERY: WHERE ARE WE?

Alex Haynes
Harvard T.H. Chan School of Public Health and the Brigham and Women's Hospital, Massachusetts General Hospital/Harvard Medical School, Boston, MA, United States

Scientific Session 125

Virology: Ebola

Marriott - Atrium A
Wednesday, November 16, 10:15 a.m. - Noon

CHAIR

Edgar Davidson
Integral Molecular, Inc., Philadelphia, PA, United States

Barbara Knust
Centers for Disease Control and Prevention, Atlanta, GA, United States

10:15 a.m.

1309

INVESTIGATING VIRUS PERSISTENCE IN BODY FLUIDS OF EBOLA SURVIVORS IN SIERRA LEONE

The Ebola Virus Persistence Study Group, **Barbara Knust**
U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

10:30 a.m.

1310

MAPPING ANTIBODY EPITOPES ON THE EBOLA VIRUS ENVELOPE PROTEIN BY SHOTGUN MUTAGENESIS

Edgar Davidson¹, Srikar Reddy¹, Andrew Flyak², Katie A. Howell³, M. Javad Aman³, James E. Crowe, Jr.², Benjamin J. Doranz¹
¹Integral Molecular, Inc., Philadelphia, PA, United States, ²Departments of Pathology, Microbiology and Immunology, Vanderbilt University, Nashville, TN, United States, ³Integrated BioTherapeutics, Inc., Gaithersburg, MD, United States

10:45 a.m.

1311

IDENTIFICATION OF HUMAN T CELL EPITOPES IN THE EBOLAVIRUS GLYCOPROTEIN FOLLOWING VACCINATION WITH CHAD3 EBO Z GP AND MVA BN

Danny Wright¹, Mark Giza¹, Tommy Rampling¹, Antra Zeltina², Georgina Bowyer¹, Jonathan Powlson¹, Navin Venkatraman¹, Egeruan Imoukhuede¹, Ruth Payne¹, Alfredo Nicosia¹, Nancy Sullivan³, Barney Graham³, Ariane Volkmann⁴, W. Ripley Ballou⁵, Sarah Gilbert¹, Adrian Hill¹, **Katie Ewer**¹
¹The Jenner Institute, University of Oxford, Oxford, United Kingdom, ²STRUBI, University of Oxford, Oxford, United Kingdom, ³National Institutes of Health, Bethesda, MD, United States, ⁴Bavarian Nordic, Martinried, Germany, ⁵GlaxoSmithKline Biologicals, Rixensart, Belgium

11 a.m.

1312

THE SIERRA LEONE TRIAL TO INTRODUCE A VACCINE AGAINST EBOLA (STRIVE)

Mohamed Samai¹, The STRIVE Study Team, Anne Schuchat², Abu Bakkar Fofanah³

¹College of Medicine and Allied Health Sciences, Freetown, Sierra Leone, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Ministry of Health and Sanitation, Freetown, Sierra Leone

11:15 a.m.

1313

SAFETY, IMMUNOGENICITY, AND EFFICACY OF THE MERCK RVSVΔG-ZEBOV-GP EBOLA VACCINE

Jakub Simon¹, Rita Das¹, Frans Helmond¹, Ashley Wivel¹, Jayanthi Wolf¹, Mike Dekleva¹, Ken Liu¹, Ivan Chan¹, Gray Heppner², Rick Nichols², Brian Martin², Thomas Monath², Swati Gupta¹, Beth-Ann Collier¹

¹Merck & Co, Kenilworth, NJ, United States, ²NewLink Genetics, Ames, IA, United States

11:30 a.m.

1314

PHASE 1 EVALUATION OF A LIVE ATTENUATED HUMAN PARAINFLUENZA VIRUS TYPE 3 VECTORED VACCINE CANDIDATE EXPRESSING EBOLAVIRUS ZAIRE GLYCOPROTEIN

Kawsar R. Talaat¹, Ruth A. Karron¹, Noreen A. Hynes², Anna P. Durbin¹, Kathryn M. Chang¹, Brittany Feijoo¹, Beulah P. Sabundayo¹, Beverly Plunkett¹, Weiyun Sun¹, Rachel Adkinson¹, Cindy L. Luongo³, Lijuan Yang³, Peter L. Collins³, Alexander Bukreyev⁴, Ursula J. Buchholz²

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins University School of Medicine, Baltimore, MD, United States, ³National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁴University of Texas Medical Branch, Galveston, TX, United States

11:45 a.m.

1315

SEROPREVALENCE OF FILOVIRUS INFECTION IN VILLAGES WITH NO HISTORY OF OUTBREAK IN THE DEMOCRATIC REPUBLIC OF CONGO

Vivian H. Alfonso¹, Nicole A. Hoff¹, Reena H. Doshi¹, Graham Simmons², Kai Lau², Imke Steffen², Prime Mulembakani³, Jean-Jacques Muyembe³, Neville Kisolau³, Emile Okitolonda⁴, Anne W. Rimoin¹
¹University of California Los Angeles, Los Angeles, CA, United States, ²Blood Systems Research Institute, University of California San Francisco, San Francisco, CA, United States, ³National Institute for Biomedical Research, Kinshasa, Democratic Republic of the Congo, ⁴Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo

Symposium 126

State of the Art in Controlled Human Infection Models for Tropical Diseases

Marriott - Atrium B

Wednesday, November 16, 10:15 a.m. - Noon

Experimental controlled human infection models have been or are being developed for a number of viruses, bacteria and parasites. These aim both to study the natural history of infection and also to evaluate experimental vaccines and drugs to provide proof of efficacy. Among these, thousands of volunteers around the world have received controlled experimental malaria, influenza, enterotoxigenic *E. coli*, and Shigella infections, to name a few. Model development has included identification of the optimal dose and route of administration of an appropriate challenge strain or challenge organism, which results in safe but measurable infection, mimicking natural infection as closely as possible. Through the development and use of these models, preliminary assessment of vaccine and drug efficacy against targeted bacteria, viruses, and parasites can be obtained earlier in clinical development, for more rapid evaluation of Go/No-Go criteria, and better deployment of resources toward the most promising candidates. Recent vaccine candidates evaluated via controlled human infection models include the *Plasmodium falciparum* sporozoite malaria vaccine and the MVA-NP+M1 influenza vaccine. In addition, controlled human infection with various intestinal helminths has been deployed as potential treatments for inflammatory and autoimmune diseases such as celiac disease. This symposium will provide an update on the progress to date in developing controlled human infection models – and their applications – for four tropical infections: malaria, Dengue, hookworm and schistosomiasis.

CHAIR

David Diemert

George Washington University, Washington, DC, United States

Jeffrey Bethony

George Washington University, Washington, DC, United States

10:15 a.m.

CONTROLLED HUMAN HOOKWORM INFECTION

Alex Loukas

James Cook University, Cairns, Australia

10:35 a.m.

CONTROLLED HUMAN SCHISTOSOMA INFECTION

Meta Roestenberg

Leiden University Medical Center, Leiden, Netherlands

10:55 a.m.

CONTROLLED HUMAN MALARIA INFECTION TO TEST VACCINE EFFICACY

Kirsten E. Lyke

Center for Vaccine Development, University of Maryland, Baltimore, MD, United States

11:15 a.m.

CONTROLLED HUMAN DENGUE INFECTION

Anna P. Durbin

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Symposium 127

Elimination of *Schistosomiasis japonica* from China

Marriott - Room A601

Wednesday, November 16, 10:15 a.m. - Noon

Schistosomiasis in the People's Republic of China (P.R. China) goes back to antiquity but, in the last 65 years, the Chinese government has made great strides in its control so that elimination is now the final declared goal. In 2010, through the implementation of a comprehensive control strategy developed by China's Ministry of Health (MoH), Chinese Vice-Premier Li Keqiang championed the target of achieving elimination (i.e. reducing a locally acquired infection rate to zero) by the year 2020, now slated for 2025. As the deadline for elimination is now set, this symposium outlines the current status of schistosomiasis and its control in China, identifies the pitfalls to achieving elimination and how improved diagnostics will make all the difference; it will highlight new integrated intervention strategies for sustainable control and elimination; and displays the latest mathematical modelling technology for the predicted short, medium and long-term impacts of elimination interventions.

CHAIR

Darren Gray

Australian National University, Canberra, Australia

Juerg Utzinger

Swiss Tropical and Public Health Institute, Basel, Switzerland

10:15 a.m.

CURRENT EPIDEMIOLOGICAL SITUATION IN CHINA; AND MULTI-COMPONENT INTEGRATED CONTROL FOR ITS ELIMINATION

Yuesheng Li

Hunan Institute of Parasitic Diseases, Yueyang, China

10:35 a.m.

CURRENT EPIDEMIOLOGICAL SITUATION IN CHINA; AND MULTI-COMPONENT INTEGRATED CONTROL FOR ITS ELIMINATION

Darren J. Gray

School of Population Health, Australian National University, Canberra, Australia

10:55 a.m.

CONQUERING SCHISTOSOMIASIS IN CHINA: THE LAST MILE

Donald P. McManus

The Queensland Institute of Medical Research, Brisbane, Australia

11:15 a.m.

DEVELOPMENT OF NOVEL OMICS-BASED INTERVENTION TOOLS FOR SCHISTOSOMIASIS CONTROL IN CHINA

Wei Hu

Fudan University, Shanghai, China

11:35 a.m.

MATHEMATICAL MODELLING S. JAPONICUM ELIMINATION IN CHINA

Gail Williams

University of Queensland, Brisbane, Australia

Scientific Session 128

Malaria: Immunology

Marriott - Room A602

Wednesday, November 16, 10:15 a.m. - Noon

CHAIR

Arlene E. Dent

Case Western Reserve University, Cleveland, OH, United States

Alison E. Roth

University of South Florida, Tampa, FL, United States

10:15 a.m.

1316**IMMUNOASSAYS FOR CHARACTERIZING AND EVALUATING VACCINE CANDIDATES THAT TARGET PRE-ERYTHROCYTIC STAGES OF *PLASMODIUM VIVAX* AND *P. FALCIPARUM***

Alison E. Roth¹, Steven P. Maher¹, Swamy Rakesh Adapa¹, Rays H. Jiang¹, Ratawan Ubalee², Amy Conaway¹, Nicole D. Salinas³, John Jimah³, Lenore Carias⁴, Sebastien Dechavanne⁴, Sokunthea Sreng⁵, Suon Seila⁵, Chanaki Amaratunga⁶, Rick M. Fairhurst⁶, Christopher L. King⁴, Niraj Tolia², Friedrich Frischknecht⁷, Dennis E. Kyle¹, Silas Davidson², John H. Adams¹

¹University of South Florida, Tampa, FL, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³Washington University, St. Louis, MO, United States, ⁴Case Western Reserve University, Cleveland, OH, United States, ⁵National Center for Parasitology, Entomology and Malaria Control, Phenom Penh, Cambodia, ⁶National Institutes of Health, Rockville, MD, United States, ⁷Heidelberg University, Heidelberg, Germany

(ACMCIP Abstract)

10:30 a.m.

1317**GAMETOCYTE-SPECIFIC IMMUNITY PROVIDES A RATIONALE FOR NOVEL TRANSMISSION BLOCKING INTERVENTIONS IN *P. FALCIPARUM***

Kathleen Dantzer¹, Sanna Rijpma², Siyuan Ma¹, Dingying Tao³, Will Stone², Karl Seydel⁴, Miriam Laufer⁵, Huw Davies⁶, Phil Felgner⁶, Rhoel Dinglasan³, Terrie Taylor⁴, Curtis Huttenhower¹, Teun Bousema², Matthias Marti¹

¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Radboud University Nijmegen Medical Center, Nijmegen, Netherlands, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁴Michigan State University, E. Lansing, MI, United States, ⁵University of Maryland School of Medicine, Baltimore, MD, United States, ⁶University of California Irvine, Irvine, CA, United States

(ACMCIP Abstract)

10:45 a.m.

1318**REPEATED MALARIA INFECTIONS ACCELERATES BIOLOGICAL AGEING IN CHILDREN IN DISEASE ENDEMIC AREA**

Muhammad Asghar, Sara Babiker, Victor Yman, Anna Färnert
Karolinska Institutet, Stockholm, Sweden

11 a.m.

1319**ATYPICAL ACTIVATION OF HUMAN PRIMARY DENDRITIC CELLS BY *PLASMODIUM FALCIPARUM***

Anton Goetz, Maureen Ty, Ana Rodriguez
New York University School of Medicine, New York, NY, United States

(ACMCIP Abstract)

11:15 a.m.

1320**ATYPICAL MEMORY B CELLS AND CIRCULATING MARGINAL ZONE-LIKE B CELLS CHANGES ASSOCIATED TO MALARIA CHRONIC EXPOSURE**

Itziar V. Ubillos¹, Pilar Requena², Joseph Joe Campo³, Diana Barrios¹, Alfons Jimenez¹, Alexandra J. Umbers⁴, Maria Ome⁵, Leanne J. Robinson⁵, Peter M. Siba⁶, Ivo Mueller⁶, Carlota Dobaño¹

¹ISGlobal, Barcelona, Spain, ²Universidad de Granada, Granada, Spain, ³Antigen Discovery, Irvine, CA, United States, ⁴University of Melbourne, Parkville, Victoria, Australia, ⁵Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁶Walter and Eliza Hall Institute, Parkville, Victoria, Australia

(ACMCIP Abstract)

11:30 a.m.

1321**KENYAN CHILDREN AND ADULTS WITH ACUTE UNCOMPLICATED MALARIA HAVE DYSFUNCTIONAL MEMORY B CELL RECALL RESPONSES TO POLYCLONAL STIMULATION**

Grace E. Weber¹, Anna Babakhanyan¹, Paula Embury¹, Peter Odada Sumba², John Vulule², James W. Kazura¹, Arlene E. Dent¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya

(ACMCIP Abstract)

11:45 a.m.

1322**CYNOMOLGI MALARIA IN RHESUS MACAQUES INDUCES PHENOTYPIC AND FUNCTIONAL CHANGES IN NEUTROPHILS**

Chet Joyner¹, Tracey J. Lamb², Chris C. Ibegbu¹, the MaHPIC Consortium, Rabindra Tirouvanziam³, Mary R. Galinski⁴

¹Malaria Host-Pathogen Interaction Center, Emory Vaccine Center, Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, ²Division of Infectious Diseases, Department of Pediatrics, Emory University School of Medicine and Emory Children's Center, Atlanta, GA, United States, ³Emory Children's Center for CF and Airways Disease Research, Emory University School of Medicine, Emory University/MaHPIC, Atlanta, GA, United States, ⁴Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, GA, United States

(ACMCIP Abstract)

Scientific Session 129

Malaria: Modeling

Marriott - Room A703/A704

Wednesday, November 16, 10:15 a.m. - Noon

CHAIR

Olivier J. Briet

Swiss Tropical and Public Health Institute, Basel, Switzerland

Joel Tarning

Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

10:15 a.m.

1323**SPECTRUM-MALARIA: A USER-FRIENDLY PROJECTION TOOL FOR HEALTH IMPACT ASSESSMENT AND STRATEGIC PLANNING FOR MALARIA PROGRAMS IN SUB-SAHARAN AFRICA**

Matthew Hamilton¹, Guy Mahiané¹, Elric Werst¹, Olivier Briët², Richard Cibulskis³, Ewan Cameron⁴, Samir Bhatt⁴, Carel Pretorius¹, Eline L. Korenromp⁵

¹Avenir Health, Glastonbury, CT, United States, ²Swiss Tropical and Public Health Institute, Basel, Switzerland, ³World Health Organization, Geneva, Switzerland, ⁴Oxford University, Malaria Atlas Project, Oxford, United Kingdom, ⁵Avenir Health, Geneva, Switzerland

10:30 a.m.

1324

ASSESSING METHODS FOR ESTIMATING HOUSEHOLD BITING PROPENSITIES, SEASONALITY AND NOISE IN COUNTS OF MALARIA VECTORS

Su Yun Kang¹, Donal Bisanzio¹, Laura Cooper², David L. Smith³
¹University of Oxford, Oxford, United Kingdom, ²Princeton University, Princeton, NJ, United States, ³University of Washington, Seattle, WA, United States

10:45 a.m.

1325

SYSTEMS METABOLIC MODELING REVEALS DIFFERENTIAL NETWORKS PERTURBED AT PRIMARY INFECTION AND RELAPSE, IMPLICATING POTENTIAL BIOMARKERS FOR ACUTE AND CHRONIC MALARIA

Yan Tang¹, Luis Fonseca¹, the MaHPIC Consortium, Mary R. Galinski², Eberhard Voit¹, Mark P. Styczynski¹
¹Georgia Institute of Technology, Atlanta, GA, United States, ²Emory University, Atlanta, GA, United States

(ACMCIP Abstract)

11 a.m.

1326

JOINT MODELING OF *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* INFECTIONS USING A BIVARIATE POISSON LOGNORMAL MODEL

Kathryn Colborn¹, Ivo Mueller², Terence Speed²
¹University of Colorado Denver, Aurora, CO, United States, ²Walter and Eliza Hall Institute, Melbourne, Australia

11:15 a.m.

1327

PHARMACOKINETICS AND ACCUMULATION OF PIPERAQUINE WHEN USED FOR INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY (IPTP)

Joel Tarning¹, Kephass Otieno², Julie Gutman³, Simon Kariuki², Feiko O. ter Kuile⁴, Francois Nosten⁵, Meghna Desai³
¹Department of Clinical Pharmacology, Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ²Kenya Medical Research Institute, Center for Global Health Research, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Center for Global Health, Division of Parasitic Diseases and Malaria, Malaria Branch, Atlanta, GA, United States, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵Shoklo Malaria Research Unit, Faculty of Tropical Medicine, Mahidol University, Tak, Thailand

11:30 a.m.

1328

BROTHERS, SISTERS, AUNTS AND UNCLES: TRANSMISSION OF RELATED PARASITES IN POLYGENOMIC INFECTIONS OF *PLASMODIUM FALCIPARUM*

Wesley Wong¹, Edward Wenger², Rachel F. Daniels³, Stephen F. Schaffner⁴, Allison Griggs⁴, Daouda Ndiaye⁵, Fatou Ba Falle⁶, Medoune Ndiop⁶, Mady Ba⁶, Danny A. Milner Jr¹, Sarah K. Volkman¹, Philip Eckhoff², Daniel E. Neafsey⁴, Daniel L. Hartl³, Dyann F. Wirth¹
¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Institute of Disease Modelers, Bellevue, WA, United States, ³Harvard University, Cambridge, MA, United States, ⁴Broad Institute, Cambridge, MA, United States, ⁵Cheikh Anta Diop University, Dakar, Senegal, ⁶Senegal National Malaria Control Program, Dakar, Senegal

11:45 a.m.

1329

VECTOR "VACCINATION": OPTIMIZATION OF NON-MENDELIAN-BASED GENE DRIVES FOR MOSQUITO POPULATION REPLACEMENT

Milen Nikolov¹, Andre Ouédraogo¹, Edward Wenger¹, Dave Summa², Philip Eckhoff¹
¹Institute for Disease Modeling, Bellevue, WA, United States, ²BMI, Mountain View, CA, United States

Scientific Session 130

Mosquitoes: Biochemistry and Molecular Biology

Marriott - Room A706/A707
Wednesday, November 16, 10:15 a.m. - Noon

CHAIR

Eric Calvo
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

Maurice A. Itoe
Harvard T.H. Chan School of Public Health, Boston, MA, United States

10:15 a.m.

1330

PENTOSE PHOSPHATE PATHWAY INHIBITION ELEVATES OXIDATIVE STRESS AND IMPEDES FECUNDITY IN *ANOPHELES GAMBIAE*

Cody J. Champion, John Xu
New Mexico State University, Las Cruces, NM, United States

10:30 a.m.

1331

INVESTIGATING *ANOPHELES FUNESTUS* SUSCEPTIBILITY AND IMMUNE RESPONSE TO *PLASMODIUM FALCIPARUM* INFECTION

Cyrille Ndo¹, Edmond Kopya¹, Benjamin Menze², Parfait Awono-Ambene¹, Gareth Lycett³, Charles Wondji³
¹OCEAC, Yaoundé, Cameroon, ²OCEAC/LSTM, Yaoundé, Cameroon, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:45 a.m.

1332

ELUCIDATING THE ROLE OF LIPOGENIC AND LIPOLYTIC PATHWAYS IN MOSQUITO REPRODUCTION AND *P. FALCIPARUM* TRANSMISSION

Maurice A. Itoe, Flaminia Catteruccia
Harvard T.H. Chan School of Public Health, Boston, MA, United States

(ACMCIP Abstract)

11 a.m.

1333

DISRUPTING STEROID HORMONE SIGNALLING IN ADULT *ANOPHELES GAMBIAE* FEMALES BLOCKS *PLASMODIUM* DEVELOPMENT AND OFFERS ALTERNATIVE TARGETS FOR MOSQUITO CONTROL

Douglas G. Paton, Evdokia Kakani, Francisco Cai, Sara Mitchell, Flaminia Catteruccia
Harvard T.H. Chan School of Public Health, Boston, MA, United States

(ACMCIP Abstract)

Wednesday
November 16

11:15 a.m.

1334

THERE AND BACK AGAIN: A MOSQUITO SPERM'S JOURNEY FROM INSEMINATION TO FERTILIZATION

Ethan Degner, Laura Harrington
Cornell University, Ithaca, NY, United States

(ACMCIP Abstract)

11:30 a.m.

1335

SICPIN, A MULTIFUNCTIONAL IMMUNOMODULATORY SALIVARY PROTEIN FROM THE BLACK FLY *SIMULIUM NIGRIMANUM*

Andrezza C. Chagas¹, Anderson B. Guimarães-Costa¹, Fabiano Oliveira¹, Anderson Sá-Nunes², Jose M. Ribeiro¹, Eric Calvo¹
¹National Institute of Allergy and Infectious Diseases-National Institutes of Health, Rockville, MD, United States, ²Instituto de Ciências Biomédicas, Universidade de São Paulo, São Paulo, Brazil

11:45 a.m.

1336

A LOOK AT TWO FACTORS THAT MODULATE *Aedes Aegypti* MOSQUITO VECTOR COMPETENCE FOR DENGUE VIRUS

Celia Demby
Johns Hopkins University, Baltimore, MD, United States

Exhibit Hall Open and Light Lunch

Marriott - International Hall

Wednesday, November 16, Noon - 2:30 p.m.

Poster Session 131

Poster Session C: Presentations and Light Lunch

Hilton - Grand Ballroom and Grand Salon
Wednesday, November 16, Noon - 1:45 p.m.

Poster Session C Directory

Alphaviruses (Includes Chikungunya): #1337 – 1344

Flaviviridae – Dengue: #1345 – 1371

Flaviviridae – Other: #1372 - 1385

Viruses – Other: #1386 – 1400

Mosquitoes – Insecticide Resistance and Control: #1401 – 1413

Mosquitoes – Molecular Genetics: #1414 - 1423

Mosquitoes – Vector Biology-Epidemiology: #1424 - 1442

Global Health: #1443 - 1473

Malaria – Biology and Pathogenesis: #1474 - 1485

Malaria – Chemotherapy and Drug Resistance: #1486 - 1507

Malaria – Diagnosis: #1508 – 1525

Malaria – Drug Development – Clinical Trials: #1526 - 1542

Malaria – Elimination: #1543 - 1565

Malaria – Epidemiology: #1566 - 1589

Malaria – Genetics/Genomics: #1590 - 1604

Malaria – Immunology: #1605 - 1622

Malaria – Other: #1623 - 1635

Malaria – Vaccines: #1636 - 1653

Malaria/Mosquitoes – Field Prevention: #1654 - 1666

Bacteriology – Enteric Infections: #1667 – 1678

Bacteriology – Systemic Infections: #1679 – 1684

Bacteriology – Trachoma: #1685 - 1691

Clinical Tropical Medicine: #1692 - 1717

Helminths – Nematodes – Intestinal Nematodes: #1718 - 1734

HIV and Tropical Co-Infections: #1735 - 1744

Kinetoplastida – Cellular and Molecular Biology (Including *Leishmania* and Trypanosomes): #1745 – 1756

Kinetoplastida – Immunology (Including *Leishmania* and Trypanosomes): #1757 – 1766

Pneumonia, Respiratory Infections and Tuberculosis: #1767 - 1778

Trematodes – Schistosomiasis – Epidemiology, Diagnosis and Treatment: #1779 – 1789

Trematodes – Schistosomiasis – Immunology: #1790

Water, Sanitation, Hygiene and Environmental Health: #1791 - 1806

Alphaviruses (Includes Chikungunya)

1337

CHIKUNGUNYA FEVER IN CLINICALLY DIAGNOSED PATIENTS: COMPARATIVE STUDY BETWEEN LABORATORY CONFIRMED VERSUS NEGATIVE CASES DURING THE 2015 OUTBREAK IN YUCATAN, MEXICO

Reinhard Janssen-Aguilar¹, Salvador Gomez-Carro², Victoria Novelo-Alcocer¹, Mauricio Serna-Lorenzo¹, Freddy Pacheco-Tucuch³, Martin Inurreta-Diaz¹, Nina Mendez-Dominguez⁴

¹Universidad Marista de Merida, Merida, Mexico, ²OHoran General Hospital, Merida, Mexico, ³Universidad Autonoma de Yucatan, Merida, Mexico, ⁴CINVESTAV del IPN, Merida, Mexico

1338

EVOLUTIONARY INFLUENCES ON THE REDUCTION IN ENZOOTIC CIRCULATION AND HUMAN INCIDENCE OF WESTERN EQUINE ENCEPHALITIS

Nicholas A. Bergren¹, Shannan L. Rossi¹, Richard A. Bowen², Scott C. Weaver¹
¹University of Texas Medical Branch, Galveston, TX, United States, ²Colorado State University, Fort Collins, CO, United States

1339

THE BURDEN OF CHRONIC CHIKUNGUNYA DISEASE AND QUALITY OF LIFE IN CURAÇAO

Jelte Elsinga¹, Symkje vd Ploeg², Izzy Gerstenbluth³, Yaskara Halabi³, Norediz T. Lourents³, Joyce O'Neil³, Deniz Emre², Johannes G. Burgerhof⁴, Ajay Bailey⁵, Alex Friedrich¹, Adriana Tami¹

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CHIKUNGUNYA EPIDEMIC IN CARABOBO STATE, VENEZUELA 2014: A STUDY ON EPIDEMIOLOGICAL DEVELOPMENT, CLINICAL MANIFESTATIONS AND RISK FACTORS

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SEASONAL PREVALENCE OF ALPHAVIRUSES AND FLAVIVIRUSES IN CHILDREN IN WESTERN KENYA

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RISK FACTORS FOR CHIKUNGUNYA PATIENT HOSPITALIZATION — PUERTO RICO, 2014

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Christina L. Gardner, Alan M. Watson, Chengqun Sun, Amy L. Hartman, Douglas S. Reed, William B. Klimstra
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THE CLINICAL OVERLAP OF SEVERE DENGUE CATEGORIES

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Kristen K. Pierce¹, Steve S. Whitehead², Beth D. Kirkpatrick¹, Marya Carmolli¹, Cecilia Tiberia³, Yolanda Eby³, Cathy Larsson¹, Palmtama Grier³, Eve Ostrowski³, Anna P. Durbin³

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ANALYSIS OF THE CURRENT MAJOR DENGUE OUTBREAK IN ARGENTINA IN AN AREA WITH PERMANENT CONTROL ACTIVITIES AGAINST Aedes Aegypti SINCE 2009

Manuel O. Espinosa, Andrea Gómez-Bravo, Marcelo C. Abril
Fundación Mundo Sano, CABA, Argentina

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Sandra Henein, uy, Matthew Bonaparte, Ralph Baric, Ar Jessica Swanstrom, Tony Byers, Janice Moser, Bruno G
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

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SAFETY AND IMMUNOGENICITY OF AN AS03 - ADJUVANTED DENGUE PURIFIED INACTIVATED VACCINE ADMINISTERED ON THREE SCHEDULES TO HEALTHY U.S. ADULTS

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Gemma Nedjati-Gilani, Lorenzo Cattarino, Neil M. Ferguson
Imperial College London, London, United Kingdom

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EXPLORING THE ROLE OF ASTHMA IN DENGUE PATIENTS

Johanna Vélez¹, Nicole Rodríguez¹, Ernesto Santini¹, Mariana Tavárez¹, Vylma Velázquez¹, Luzeida Vargas¹, Janice Pérez², Luisa Alvarado¹

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ESTIMATION OF THE MAGNITUDE OF DENGUE INCIDENCE UNDERREPORTING THROUGH A MODELLING WITH DISMOD II SOFTWARE

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CHANGING CLIMATE AND TRAVEL ACTIVITY MIGHT EXACERBATE DENGUE TRANSMISSION IN TAIWAN

Ting-Wu Chuang, Bo-Jiang Chen, Ka-Chon Ng
Taipei Medical University, Taipei, Taiwan

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ENHANCED DENGUE SENTINEL SURVEILLANCE IN METROPOLITAN SRI LANKA: 2012 TO 2015

Hasitha Tissera¹, Sunethra Gunasena², Dharshan De Silva³, October Sessions⁴, Paba Palihawadana¹, Ananda Amarasinghe¹, Jayantha Weeraman¹, Oshane Chandrasoma¹, Yee Leong⁵, Wolfgang Lohr⁶, Peter Byass⁶, Annelies Wilder-Smith⁵, Duane Gubler⁴

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GENETIC VARIABILITY OF DENGUE VIRUS TYPE 2 AND CLINICAL OUTCOME DURING THE 2009-2010 EPIDEMIC OF DENGUE IN COLOMBIA

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A DENGUE VIRUS TYPE 2-SPECIFIC MONOCLONAL ANTIBODY BINDS TO THE DENGUE VIRUS-COMPLEX-REACTIVE ANTIGENIC SITE ON ENVELOPE PROTEIN DOMAIN 3

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PERFORMANCE OF A RAPID TEST FOR THE DETECTION OF DENGUE DURING THE OUTBREAK OF ZIKA VIRUS IN COLOMBIA

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Janice Perez-Padilla¹, Brenda Torres-Velazquez¹, Tyler M. Sharp¹, Aidsa Rivera¹, Eric Gonzalez², Juan P. Torres², Esteban Lugo², Jose Vidal², Luisa Alvarado³, Kay M. Tomashek¹

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**DECODING THE SANOFI PASTEUR DENGUE VACCINE
EFFECTIVITY AND IMMUNOGENICITY USING THE HUMAN IN
VITRO MIMIC® SYSTEM**

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ROLE OF SKIN MAST CELLS IN DENGUE VIRUS INFECTION

Andrea J. Troupin, Berlin Londono-Renteria, Devon Shirley, Cody McHale, Alex Hall, Jerel Lee, Gregorio Gomez, Tonya M. Colpitts

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**DENGUE VIREMIA IN KENYAN CHILDREN WITH ACUTE
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Fernanda P. Torres, Danillo L. Esposito, Taline M. Klein, Flávia M. Moraes, Michelli R. Persona, Benedito A. Fonseca

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Chwan-Chuen King¹, Hwa-Lung Yu², Ta-Chien Chan³, Yun-Cheng Chang¹, Shu-Yu Lin¹, Chi-Hang Chin¹, Hui-Ying Ko¹, Yao-Tsun Li¹, Thomas C. Tsai⁴, Yung-Chen Marie Wu⁴, Shu-Chuan Hsu⁵, Chih-Huan Chung⁵, Ishiou Hwang¹, Chia-Chi Ku⁶, Sheng-Che Fred Lin⁷, Chaur-Dong Chen⁸, Chi-Kung Ho⁸, Pei-Yun Shu⁹

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Arienne Fagotti Gusmão, Paulo Eduardo Lima Lopes-Filho, **Adriano Mondini**
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CO-INFECTED WITH NHUMIRIM VIRUS**

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Grace Goryoka, Allison T. Chamberlain, Mallory K. Ellingson, Raghuraj Kasturi, Jonathan D. Lehnert, Emily Maier, Ruth L. Berkelman

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AND DIFFERENTIATION USING A MULTIPLEXED, BEAD
BASED RT-PCR ASSAY**

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Luciana M. Flannery, Roosecelis B. Martinez, Brigid Bollweg, Tara Jones, Pamela Spivey, Julu Bhatnagar, Dominique Rollin, Kelly Keating, Joy Gary, Gillian Hale, Jana Ritter, Wun-Ju Shieh, Sarah Reagan-Steiner, Atis Muehlenbachs, Sherif Zaki
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(ACMCIP Abstract)

1377**CHARACTERIZATION OF PATIENTS WITH GUILLAIN-BARRÉ SYNDROME DURING THE ZIKA EPIDEMIC IN VENEZUELA**

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1378**VIREMIA AND CLINICAL PRESENTATION AMONG NICARAGUAN PATIENTS WITH ZIKA VIRUS AND DENGUE VIRUS INFECTIONS**

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1379**EFFECTS OF TEMPERATURE ON ZIKA, DENGUE AND CHIKUNGUNYA TRANSMISSION BY Aedes Aegypti AND Ae. Albopictus**

Erin Mordecai¹, Jeremy Cohen², Michelle Evans³, Leah R. Johnson⁴, Prithvi Gudapati¹, Kerri Miazgowiec², Courtney C. Murdock³, Jason Rohr², Sadie J. Ryan⁵, Van Savage⁶, Anna Stewart Ibarra⁷, Matthew B. Thomas⁸, Marta Shocket¹, Daniel Weikel⁹
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1380**GUILLAIN-BARRÉ SYNDROME RISK AMONG INDIVIDUALS INFECTED WITH ZIKA VIRUS**

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1381**RELATIVE FITNESS OF ZIKA VIRUS LINEAGES IN MOSQUITOES AND CELLS**

Gregory D. Ebel, James Weger, Claudia Rueckert, Nathan Grubaugh, Joseph Fauver
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1382**EVALUATING THE EFFECTS OF TEMPERATURE VARIATION ON ARBOVIRUSES**

Blanka Tesla, Kerri Miazgowiec, Melinda Brindley, Courtney Murdock
University of Georgia, Athens, GA, United States

1383**ZIKA VIRUS INFECTIONS: PAYING ATTENTION TO ATYPICAL PRESENTATIONS**

Danillo L. Esposito, Flávia M. Moraes, Taline M. Klein, Michelli R. Persona, Beatriz S. Ribeiro, Vinicius C. Molla, Marco Andrey C. Frade, **Benedito A. Fonseca**
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1384**MODEL-BASED PROJECTIONS OF ZIKA VIRUS INFECTIONS IN CHILDBEARING WOMEN IN THE AMERICAS**

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1385**EVALUATING STRAIN SPECIFICITY OF THE ZIKA VIRUS NEUTRALIZING ANTIBODY RESPONSE**

Kimberly A. Dowd¹, Christina DeMaso¹, Rebecca S. Pelc¹, Leslie Goo¹, Scott Speer¹, Alex Smith¹, Michael S. Diamond², John R. Mascola³, Barney S. Graham³, Julie E. Ledgerwood³, Theodore C. Pierson¹
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Viruses - Other

1386**DURATION OF INTESTINAL IMMUNITY FOLLOWING ADMINISTRATION OF INACTIVATED POLIO VACCINE (IPV) IN INDIAN CHILDREN PRIMED WITH ORAL POLIO VACCINE (OPV)**

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EVALUATION OF A MEASLES ROUTINE IMMUNIZATION PROGRAM IN THE DEMOCRATIC REPUBLIC OF CONGO

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DETECTION OF HUMAN ENTEROVIRUS 71 FROM AN OUTBREAK OF HAND FOOT AND MOUTH DISEASE IN BANJARMASIN, INDONESIA

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DYNAMIC MODEL OF ROTAVIRUS TRANSMISSION WITH IMPACT OF TEMPERATURE

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FIRST LABORATORY CONFIRMATION OF AN OUTBREAK OF RIFT VALLEY FEVER VIRUS IN 50 YEARS IN KABALE DISTRICT, SOUTHWESTERN UGANDA

Trevor Shoemaker¹, Stephen Balinandi¹, Like Nyakarahuka², Joseph Ojwang¹, Alex Tumusiime¹, Sophia Mulei², Jackson Kayondo², Jeff Borchert¹, Julius Lutwama², John Klena³, Pierre Rollin³, Stuart Nichol³

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A RETROSPECTIVE COHORT STUDY OF SEROPREVALENCE OF EBOLA AND MARBURG VIRUSES IN HUMANS FROM TWO DIFFERENT ECOLOGICAL ZONES IN UGANDA

Like Nyakarahuka¹, Alex Tumusiime², Stephen Balinandi², Ilana Schafer³, Barbara Knust³, Jackson Kyondo¹, Sophia Mulei¹, Julius Lutwama¹, Trevor Shoemaker²

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THE POTENTIAL ECONOMIC IMPACT OF THE ZIKA VIRUS

Dagna O. Constenla, Jorge Martin del Campo, Alexandra Greenberg, Gatien de Broucker
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Simon Pollett¹, Tany Tan², John-Sebastian Eden³, Víctor Ocaña⁴, Silvia Mendocilla⁵, Carlos Álvarez⁶, Maria E. Calixto⁷, Christopher Mores⁸, Julia S. Ampuero⁸, Martha I. Nelson⁹

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EVALUATION OF THE BIOJECT NEEDLE FREE VACCINE DELIVERY DEVICE FOR VACCINATING RATS WITH RIFT VALLEY FEVER VACCINE CANDIDATES

Pedro M. Palermo, George Bettinger, Douglas Watts
University of Texas at El Paso, EL Paso, TX, United States

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Margaret Lentz¹, Yu Cong¹, Chris Bartos¹, Dima Hammoud², Louis Huzella¹, Peter B. Jahrling¹, Krisztina Janosko¹, Abigail Lara¹, Daniel Mollura², Dan Ragland¹, Oscar Rojas¹, Jeffrey Solomon¹, Ziyue Xu², Vincent Munster³, **Michael R. Holbrook**¹

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SEROEPIDEMIOLOGICAL STUDIES FOR INFECTIONS BY VECTOR-BORNE AND ZONOTIC PATHOGENS AMONG U.S. MILITARY PERSONNEL

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Cesar Cabezas-Sanchez¹, Johanna Balbuena Torres², Luis Crispin-Huamani¹, Kevin Landa-Huaman¹, Katia Rios-Rojas¹, Andrea Sucari-Ildrogo¹, Andrea Anampa-Guzmán¹

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Samuel Kargbo¹, Abbass Conteh², Jane Gidudu³, the STRIVE study team
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Axel Lehrer, Teri-Ann S. Wong, Madhuri Namekar, Michael M. Lieberman
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DENGUE, ZIKA AND CHIKUNGUNYA CO-INFECTIONS AMONG ACUTE FEBRILE ILLNES PATIENTS IN SALVADOR, BRAZIL

Laura B. Tauro
Centro de Pesquisas Gonçalo Moniz/FIOCRUZ-BA, Salvador, Brazil

Wednesday
November 16

Mosquitoes - Insecticide Resistance and Control

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KNOCK DOWN RESISTANCE (KDR) GENE IN *ANOPHELES COLUZZII* AND *ANOPHELES GAMBIAE* THAT SURVIVED THE DIAGNOSTIC CONCENTRATION OF PYRETHROIDS AND DDT IN TWO ECO-EPIDEMIOLOGICAL ZONES (GUINEA SAVANNAH AND COASTAL MANGROVE) OF NIGERIA

Lazarus M. Samdi¹, Petrus U. Inyama¹, Henry Nsa¹, Nduka Iwuchukwu¹, Joseph I. Okeke¹, Samson T. Awolola², Greg Ike Anyanwu³, Nnenna Ezeigwe⁴, Joel D. Akilah⁴, Aklilu Seyoum⁵, Dereje Dengela⁶, Uwem Inyang⁷, Richard W. Niska⁸, Jessica Kafuko⁷, Pamela Dasher⁶, Laura Norris⁹, Christen Fornadel⁹, Peter Obenauer¹⁰

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INTERCEPTOR G2: A NOVEL LN FOR MALARIA CONTROL AND BEYOND

James William Austin

BASF Corporation, Research Triangle Park, NC, United States

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WHO SUSCEPTIBILITY TEST VS. CDC BOTTLE BIOASSAY: COMPARISON OF THE CURRENT METHODOLOGIES FOR CONDUCTING INSECTICIDE RESISTANCE MONITORING

Laura Leite, Dustin Miller, Pauline Schopp, Paul Howell, Ellen Dotsou
Centers for Disease Control and Prevention, Atlanta, GA, United States

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CAN CHICKEN FEATHERS BE USED TO PRODUCE EFFECTIVE, RE-USABLE, DURABLE AND LOW-COST MOSQUITO NETS?

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TRANSCRIPTOME ANALYSIS OF GENES ASSOCIATED WITH DELTAMETHRIN RESISTANCE IN *ANOPHELES ALBIMANUS*

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Moussa Keita, Boissé Traoré, Fousseyni Kané, Sekou Fantamady Traoré, Seydou Doumbia, Nafomon Sogoba

International Center for Excellence in Research (ICER), Bamako, Mali

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Silvie Huijben¹, Mara Maquina², Lucia Fernández¹, Pedro Aide², Ana Paula Abilio³, James Colborn⁴, Maria Ponja⁵, Francisco Saúte², Krijn Paaijmans¹

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Marissa Grossman¹, Valentin Uc Puc², Adriana Flores³, Pablo Manrique-Saide², Gonzalo Vazquez-Prokopec¹

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Libasse Gadiaga¹, Ousmane Faye², Mamadou Demba Sy², Elhadji Amadou Niang², Ellen Dotsou³, Julie Thwing⁴, Iassana Koante², Abdoulaye Diop⁵, Moussa Diagne⁶

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Amandine Guidez, Johana Restrepo-Zabaleta, Mathieu Luana, Sandra Augustin, Pascal Gaborit, Romuald Carinci, Jean Issaly, Romain Girod, Isabelle Dufour

Institut Pasteur de la Guyane, Cayenne, French Guiana

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Aveika A. Akum, Abrahan Matias, Wonder P. Phiri

Medical Care Development International, Silver Spring, MD, United States

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Mosquitoes - Molecular Genetics

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ENGINEERED *ANOPHELES GAMBIAE* IMMUNITY TO *PLASMODIUM* INFECTION

Maria L. Simoes¹, Yuemei Dong¹, Andrew M. Hammond², Tony Nolan², Andrea Crisanti², George Dimopoulos¹

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Tom Schmidt, Gordana Raši, Ary A. Hoffmann
University of Melbourne, Parkville, Australia

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Veronica Valverde-Garduno¹, Manuel Castillo-Méndez², Graciela Gleason-Rodríguez²

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(ACMCIP Abstract)

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R. Rebecca Love, Nora J. Besansky

University of Notre Dame, Notre Dame, IN, United States

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Dorcas Atibilla¹, Dziedzom Komi De Souza², Millicent Opoku², Michael David Wilson², Joseph Harold Osei³, Rosina Kyerematen⁴, Fred Aboagyee-Antwi⁵, Seth Owusu-Agyei¹

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Christine M. Jones¹, Yoosook Lee², Travis Collier², Julia C. Pringle¹, Giovanna Carpi¹, Jennifer Stevenson³, Maureen Coetzee⁴, Mbanga Muleba⁵, Youki Yamasaki², Anthony J. Cornel², Douglas E. Norris¹

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University of Notre Dame, Notre Dame, IN, United States

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Claire Jane Heath¹, Malaya K. Sahoo¹, Bryson Ndenga², Francis Mutuku³, Njenga Ngugi⁴, Joel Mbakaya², Peter Siema⁵, Peter Aswani², Warren P. Macdonald⁶, Nayer Zahiri⁶, Jesse J. Waggoner¹, Benjamin A. Pinsky¹, A. Desiree LaBeaud¹

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Mattia Manica¹, Federico Filippini¹, Roberto Rosa², Markus Neteler², Angelo Solimini¹, Alessandra della Torre¹, Beniamino Caputo¹

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Javan Chanda, Kochelani Saili, Christopher Lungu, John M. Miller
PATH MACEPA, Lusaka, Zambia

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William T. Koval, Gonzalo Vazquez-Prokopec
Emory University, Decatur, GA, United States

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Zana L. Sanogo¹, Roy Faiman², Alpha S. Yaro¹, Moussa Diallo¹, Djibril Samake¹, Ousman Yossi¹, Adama Dao¹, Anish Prasanna², Margery A. Sullivan², Tovi Lehmann²

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Martha L. Ahumada¹, Lorena I. Orjuela¹, Paula X. Pareja¹, Marcela Conde², Diana M. Cabarcas³, Eliana F. G. Cubillos⁴, Jorge A. López⁵, John C. Beier⁶, Socrates Herrera⁴, Martha L. Quiñones²

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Igor A. Paploski¹, Moreno S. Rodrigues², Vánio A. Mugabe¹, Mariana Kikuti¹, Aline S. Tavares³, Mitermayer G. Reis³, Uriel D. Kitron⁴, Guilherme S. Ribeiro¹

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Shelley Whitehead, Janet Teeple, Matthew Thomas
Pennsylvania State University, University Park, PA, United States

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Adam South, Andrea Smidler, Enzo Mameli, Perrine Marcenac, Evdoxia Kakani, Douglas Paton, Flaminia Catteruccia
Harvard T.H. Chan School of Public Health, Boston, MA, United States

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Elizabeth A. Cromwell¹, Steven T. Stoddard², Chris M. Barker³, Steven Meshnick¹, Annelies Van Rie⁴, William Messer⁵, Amy C. Morrison³, Thomas W. Scott³, Marc Serre¹

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Xiaoming Wang¹, Daibin Zhong¹, Jimmy Lin¹, Bernadine Dizon¹, Guofa Zhou¹, Xiaoguang Chen², Guiyun Yan¹

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Andrew Golnar, Matthew Medeiros, Gabriel Hamer
Texas A&M University, College Station, TX, United States

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Sarah Sneed, Letitia Thompson, Michael Povelones
University of Pennsylvania, Philadelphia, PA, United States

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Gloria I. Giraldo-Calderón¹, Scott J. Emrich¹, Daniel Lawson², Frank H. Collins¹, VectorBase consortium

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Gideon Wasserberg¹, Marcelo Sschwarz¹, Brian Byrd²
¹University of North Carolina at Greensboro, Greensboro, NC, United States, ²Western Carolina University, Cullowhee, NC, United States

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Sarah R. Michaels, Rindcy Davis, J. Clint Welty, Dawn Wesson
Tulane University, New Orleans, LA, United States

1440**VECTORIAL CAPACITY OF Aedes albopictus ACROSS THE UNITED STATES****Kerri Miazgowiec¹**, Tayla Shragai², Laura Harrington², Michael Reiskind³, Courtney Murdock¹¹University of Georgia, Athens, GA, United States, ²Cornell, Ithaca, NY, United States, ³North Carolina State University, Raleigh, NC, United States**1441****DETECTION OF MAMMALIAN ANTIBODIES AGAINST ROSS RIVER VIRUS IN MOSQUITO BLOOD MEALS AND POTENTIAL FOR ARBOVIRUS SURVEILLANCE****Leon E. Hugo¹**, Jonathan Darbro¹, Elise Kho¹, Narayan Gyawali², Greg Devine¹¹QIMR Berghofer Medical Research Institute, Herston, Australia, ²Central Queensland University, Rockhampton, Australia**1442****TARGETED XENOMONITORING FOR LYMPHATIC FILARIASIS IN HIGH RISK COMMUNITIES AS PART OF POST-MASS DRUG ADMINISTRATION AND ENDGAME SURVEILLANCE IN MALAWI****Themba Mzilahowa¹**, Veronica Uzalili¹, Bagrey Ngwira², Daniel Boakye³, Moses Bockarie⁴, John Chiphwanya⁵, Charles Mackenzie⁴, Ben Koudou⁴, Louise A. Kelly-Hope⁴¹Malaria Alert Centre, College of Medicine, University of Malawi, Blantyre, Malawi, ²The Polytechnic, University of Malawi, Blantyre, Malawi, ³The Noguchi Memorial Institute for Medical Research, Accra, Ghana, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵Ministry of Health, Lilongwe, Malawi**Global Health****1443****TROPICAL DISEASE IN LATE 18TH SURINAM: THE CASE OF CAPT. JOHN STEDMAN, 1772-1777****David Adams¹**, Joseph Miller², Chidinma Okafor², Tatiana Eversley²¹Mercer University School of Medicine, Savannah, GA, United States, ²Armstrong State University, Savannah, GA, United States**1444****DIFFERENCES IN PRELACTEAL FEEDING ON THE ISLAND OF HISPANIOLA: THE DOMINICAN REPUBLIC AND HAITI****Lauren A. Taylor, John D. McLennan**

University of Calgary, Calgary, AB, Canada

1445**POOLING KNOWLEDGE AND EXPERIENCE TO IMPROVE CLINICAL RESEARCH STANDARDS IN LOW- AND MIDDLE-INCOME COUNTRIES: THE EXPERIENCE OF THE SWITCHING THE POLES NETWORK (2008-2016)****Raffaella Ravinetto¹**, Yves Claeys¹, Ermias Diro², Jan Jacobs¹, Harry van Loen¹, Pascal Lutumba³, Paritosh Malaviya⁴, Yodi Mahendrahata⁵, Alain Nahum⁶, Sayouba Ouedraogo⁷, Suman Rijal⁸, Shyam Sundar⁴, Halidou Tinto⁷, Marleen Boelaert¹, Anne Buve¹¹Institute Tropical Medicine, Antwerp, Belgium, ²University of Gondar, Gondar, Ethiopia, ³University of Kinshasa, Kinshasa, Democratic Republic of the Congo, ⁴Banaras Hindu University, Varanasi, India, ⁵Gadjah Mada University, Yogyakarta, Indonesia, ⁶Centre de Recherches Entomologiques, Cotonou, Benin, ⁷Clinical Research Unit Nanoro, Nanoro, Burkina Faso, ⁸BP Koirala Institute of Health Sciences, Dharan, Nepal**1446****TELEPATHOLOGY FOR RAPID TURNAROUND TIME IN MALIGNANCY DIAGNOSIS IN LOW-MIDDLE INCOME SETTINGS****Danny A. Milner¹**, Lauren Greenberg², Kiran Bhai², Tharcisse Mpunga³, Lawrence Shulman⁴, Gaspard Muvugabigwi³, Irene Nshimiyimana³, James R. Pepon¹, Paul Park⁵, Emmanuel Hakizimana³, Origene Benewe³, Deo Ruhangaza³¹The Brigham and Women's Hospital, Boston, MA, United States, ²Partners In Health, Boston, MA, United States, ³Butaro District Hospital, Butaro, Rwanda, ⁴University of Pennsylvania, Abramson Cancer Center, Philadelphia, PA, United States, ⁵Inshuti Mu Buzima, Rwigyiru, Rwanda**1447****EVALUATION OF A HANDHELD MOLECULAR ASSAY AS A RAPID CLOUD BASED POINT OF CARE ASSAY FOR THE FIELD DETECTION OF RESPIRATORY VIRUSES IN KENYA****Clayton O. Onyango¹**, Jennifer M. Radin², Shirley Lidechi³, Jesse VanWestrienen⁴, Maria F. Chacon-Heszele⁴, Nancy Otieno³, Jim Katieno³, Jeremiah Nyaundi³, Bryan Nyawanda³, Sandra S. Chaves¹, Marc-Alain Widdowson¹¹Division of Global Health Protection, Centers for Disease Control and Prevention-Kenya, Nairobi, Kenya, ²Digital Medicine, Scripps Translational Science Institute, La Jolla, CA, United States, ³Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, ⁴Biomeme Inc, Philadelphia, PA, United States**1448****IDENTIFYING AVENUES IN THE MANAGEMENT OF FEBRILE ILLNESS BY EXAMINING COMMUNITY HEALTH SEEKING PATTERNS****Mercy Rop¹**, Betty Lelei¹, Jeremiah Laktabai², Wendy Prudhomme O'Meara³, Diana Menyai²¹Academic Model Providing Access to Healthcare, Eldoret, Kenya, ²Moi University, Eldoret, Kenya, ³Duke University, Durham, NC, United States**1449****EXPERIENCES AND CHALLENGES OPERATING AN EBOLA VIRUS DISEASE DIAGNOSTIC LABORATORY IN RURAL LIBERIA****Stephen L. White¹**, Jonathan N. Kpaka², Onyekachi C. Subah², Straker T. Dweh³, Matthew P. Briel¹, Stephanie A. Baez¹, Jeffrey A. Bailey¹¹University of Massachusetts Medical School, Worcester, MA, United States, ²Academic Consortium Combating Ebola in Liberia, Monrovia, Liberia, ³Liberia Ministry of Health and Social Welfare, Tappita, Liberia**1450****THE COSTS AND IMPACT OF COMMUNITY HEALTH SERVICES IN MALAWI AND SIERRA LEONE****Colin Gilmartin¹**, David Collins², Jerome Pfaffmann³, Management Sciences for Health¹Management Sciences for Health, Arlington, VA, United States, ²Management Sciences for Health, Medford, MA, United States, ³UNICEF, New York, NY, United States**1451****TRENDS IN SOCIOECONOMIC-RELATED HEALTH INEQUALITY IN RURAL WESTERN KENYA: DATA FROM REPEATED HOUSEHOLD MALARIA SURVEYS 2006-2013****Vincent Were¹**, Meghna Deasi², Simon Kariuki¹, Ann M. Buff³, Mary Hamel², Feiko O. ter Kuile⁴, Penelope A. Phillips-Howard², S. Patrick Kachur², Louis W. Niessen⁴¹Kenya Medical Research Institute, Center for Global Health Research, Kisumu, Kenya, ²Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³U.S. President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Nairobi, Kenya, ⁴Liverpool School of Tropical Medicine, Liverpool, United KingdomWednesday
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ASSESSING URBANIZATION TRENDS FOR PUBLIC HEALTH: MODELLING NIGHTTIME LIGHTS IMAGERY IN AFRICA: 2000 - 2013

David J. Savory¹, Ricardo Andrade-Pacheco¹, Peter W. Gething², Adam Bennett¹, Alemayehu Midekisa¹, Hugh J. Sturrock¹

¹Malaria Elimination Initiative, Global Health Group, University of California San Francisco, San Francisco, CA, United States, ²Big Data Institute, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom

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THE ACT CONSORTIUM AND THE GLOBAL HEALTH NETWORK: COLLABORATING TO PROVIDE AN ONLINE, OPEN-ACCESS, COMPREHENSIVE PHARMACOVIGILANCE RESOURCE FOR THOSE WORKING IN TROPICAL INFECTIOUS DISEASES AND GLOBAL HEALTH

Elizabeth Allen¹, Cheryl Pace², Francois van Loggarenberg³, Tamzin Furtado³, David Schellenberg⁴, David Lalloo², Karen Barnes¹, Heidi Hopkins⁴, Sarah Staedke⁴, Clare Chandler⁴, Lasse Vestergaard⁵, Terlouw A², Trudie Lang³

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EVALUATION OF CAPACITY BUILDING FOR LEADERSHIP AND GOVERNANCE IN ORDER TO STRENGTHEN HEALTH SYSTEMS IN DEVELOPING COUNTRIES

Nadia Ben Meriem¹, Nick Astbury², Covadonga Bascaran², Amy Brockbank³, Clare Inkster⁴, Marcia Zondervan²

¹Schistosomiasis Control Initiative, London, United Kingdom, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³NHS North West Leadership Academy, Manchester, United Kingdom, ⁴Bolton NHS Foundation Trust, Bolton, United Kingdom

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HEALTH CARE WORKER MOTIVATION ONE YEAR AFTER THE EBOLA OUTBREAK IN LIBERIA

Anne Langston¹, Jude Senkungu², Laura Miller¹, Theresa Jones², John Shakpeh³

¹International Rescue Committee, New York, NY, United States, ²International Rescue Committee, Monrovia, Liberia, ³Redemption Hospital, New Kru Town, Liberia

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ESTIMATING THE POTENTIAL DEMAND OF A DENGUE VACCINE TO INFORM VACCINE INTRODUCTION IN THE YUCATAN PENINSULA: CASE STUDY FOR MEXICO

Jorge Martin del Campo, Gatien De Broucker, Alexandra Greenberg, Dagna Constenla

Johns Hopkins University, Baltimore, MD, United States

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ESTIMATING THE POTENTIAL DEMAND FOR DENGUE VACCINES IN HONDURAS AND PARAGUAY: PRELIMINARY FINDINGS

Alexandra Greenberg, Jorge Martin del Campo, Gatien De Broucker, Dagna Constenla

Johns Hopkins University, Baltimore, MD, United States

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A THRESHOLD ANALYSIS OF THE COST-EFFECTIVENESS OF A DENGUE VACCINE PROGRAM IN YUCATÁN, MEXICO

Gatien de Broucker, Jorge Martin del Campo, Dagna Constenla
International Vaccine Access Center, Baltimore, MD, United States

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TREATMENT AND REFERRAL OF SICK CHILDREN PRESENTING WITH ILLNESSES AT PRIVATE HEALTH CARE FACILITIES IN UGANDA

Anthony Mbonye¹, Esther Buregyeya², Elizeus Rutebemberwa³, Siân Clarke⁴, Sham La⁴, Kristian Hansen⁴, Pascal Magnussen⁵, Philip LaRussa⁵

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THE CARTER CENTER INTERNATIONAL HEALTH PROGRAM REVIEWS—A UNIQUE MODEL TO ASSESS PROGRAM PROGRESS, CHALLENGES AND IMPROVE PERFORMANCE

Shandal Sullivan, Kenya Casey, Donald R. Hopkins, Ernesto Ruiz-Tiben, P. Craig Withers, E. Kelly Callahan, Scott Nash, Nina Bloch

The Carter Center, Atlanta, GA, United States

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LAND COVER MAPPING FOR CONTINENTAL AFRICA

Alemayehu Midekisa¹, Felix Holl¹, David J. Savory¹, Ricardo Andrade-Pacheco¹, Peter W. Gething², Adam Bennett¹, Hugh J. Sturrock¹

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Ricardo Andrade-Pacheco¹, Hugh J. Sturrock¹, Samir Bhatt², Daniel J. Weiss³, Busiku Hamainza⁴, Kafula Silumbe⁵, John Miller⁵, Peter W. Gething³, Thomas P. Eisele⁶, Adam Bennett¹

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A CROSS-SECTIONAL SURVEY OF PERCEPTIONS RELATED TO SYMPTOMS OF MALARIA, CURABLE REPRODUCTIVE TRACT INFECTIONS AND ASSOCIATED TREATMENTS AMONG PREGNANT WOMEN AT HEALTH FACILITIES IN TANZANIA

R. Matthew Chico¹, Joyce Wamoyi², Myles-Jay Linton³, Catherine Bunga², Nnko Soori², John Changalucha², Daniel Chandramohan¹, Antonieta Medina-Lara³

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CURABLE REPRODUCTIVE TRACT INFECTIONS: A CROSS-SECTIONAL SURVEY OF PERCEPTIONS RELATED TO SYMPTOMS AND ASSOCIATED TREATMENTS AMONG HEALTH-CARE PROVIDERS AT HEALTH FACILITIES IN TANZANIA

R. Matthew Chico¹, Joyce Wamoyi², Myles-Jay Linton³, Catherine Bunga², Nnko Soori², John Changalucha², Daniel Chandramohan¹, Antonieta Medina-Lara³

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²National Institute for Medical Research, Mwanza, United Republic of Tanzania, ³University of Exeter, Exeter, United Kingdom

1465**MAPPING MEASLES IMMUNITY GAPS AT THE SUBPROVINCIAL LEVEL IN THE DEMOCRATIC REPUBLIC OF THE CONGO (DRC) USING 2013-2014 DEMOGRAPHIC AND HEALTH SURVEY (DHS) DATA****Cyrus S. Sinai¹**, Kamy Musene², Nicole A. Hoff¹, Reena H. Doshi¹, Patrick Mukadi³, Sue Gerber⁴, Ado Bwaka⁵, Emile Okitolonda⁶, Jean-Jacques Muyembe³, Anne W. Rimoin¹¹University of California Los Angeles Fielding School of Public Health, Los Angeles, CA, United States, ²University of California Los Angeles-DRC Research Program, Kinshasa, Democratic Republic of the Congo, ³Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo, ⁴Bill & Melinda Gates Foundation, Seattle, WA, United States, ⁵Expanded Program on Immunization, Kinshasa, Democratic Republic of the Congo, ⁶Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo**1466****EBOLA VACCINATION KNOWLEDGE, ATTITUDES, AND BEHAVIOR AMONG HIGH-RISK HEALTH CARE AND FRONT LINE WORKERS, DECEMBER 2014 - JANUARY 2015****Mohamed Jalloh¹**, Mohamed Samai², Lansana Conteh³, The STRIVE Study Team¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²College of Medicine and Allied Health Sciences, Freetown, Sierra Leone, ³Ministry of Health and Sanitation, Freetown, Sierra Leone**1467****OUTBREAK-RELATED ANXIETY AND PUBLIC POLICY: THE CASE OF EBOLA VIRUS DISEASE AND POLICY PREFERENCES****Rachael Singer**, Joshua Busby

University of Texas at Austin, Austin, TX, United States

1468**EBOLA SURVIVOR NETWORKS IN WEST AFRICA: A STRUCTURED APPROACH TO ESTABLISHING EBOLA SURVIVOR SUPPORT NETWORKS AS AN EFFECTIVE COMMUNITY ENGAGEMENT STRATEGY TO HELP FIGHT FUTURE EBOLA EPIDEMICS****Amos Ndhare¹**, Francis Kombe², Lucas Tina¹, Joseph Sgherza³, Mark Sprenz³, Claudia Christian³, Jacob Apollo¹, Victoria Tiff³¹Africa Clinical Research Management, Kisumu, Kenya, ²KEMRI-Wellcome Trust, Kilifi, Kenya, ³Clinical Research Management, Hinckley, OH, United States**1469****THE IMPACT OF CLUSTERING OF UNVACCINATED INDIVIDUALS ON RISK OF OUTBREAKS****Shaun Truelove**, Justin Lessler

Johns Hopkins University, Baltimore, MD, United States

1470**FAMILY PLANNING IN THE DEMOCRATIC REPUBLIC OF CONGO: UNWANTED PREGNANCY AND ASSOCIATED SOCIODEMOGRAPHIC CHARACTERISTICS****Adva Gadoth¹**, Vivian H. Alfonso¹, Hayley R. Ashbaugh¹, Reena H. Doshi¹, Nicole A. Hoff¹, Patrick Mukadi², Jean-Jacques Muyembe², Emile Okitolonda³, Anne W. Rimoin¹¹University of California Los Angeles, Los Angeles, CA, United States, ²National Institute for Biomedical Research, Kinshasa, Democratic Republic of the Congo, ³Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo**1471****THE GLOBAL HEALTH EXCHANGE FELLOWSHIP, A PILOT PROGRAM****Gladys U. Obuzor¹**, Anna Quine², Nthusi Nthula³, Lilian Ndomoto⁴, Charlotte Tulinius⁵, Arthur Hibble⁶, Prit Chahal², Njeri Nyanja⁷, Sammy Barasa⁸¹Health Education East of England, Brompton, United Kingdom, ²Health Education East Midlands, Nottingham, United Kingdom, ³Moi University, Eldoret, Kenya, ⁴Nazareth Hospital, Nairobi, Kenya, ⁵The Research Unit for General Practice, University of Copenhagen, Copenhagen, Denmark, ⁶Anglia Ruskin University, Cambridge, United Kingdom, ⁷Kabarak University, Nakuru, Kenya, ⁸Presbyterian University of East Africa, Kikuyu, Kenya**1472****FACILITATING TRAVEL READINESS IN A GLOBAL ORGANIZATION: SUCCESS OF A PILOT****Caryn Frith**

World Bank Group, Washington, DC, United States

1473**REDUCING HEALTH DISPARITIES IN REFUGEES FROM SUB-SAHARAN AFRICA ENTERING THE UNITED STATES FOR RESETTLEMENT: RETROSPECTIVE REVIEW****Infanta M. Spence-Lewis¹**, Albert Dempsey²¹Emory University School of Medicine, Atlanta, GA, United States, ²Georgia State University, Department of Mathematics, Atlanta, GA, United States**Malaria - Biology and Pathogenesis****1474****RELAPSES VERSUS REINFECTIONS: ASSESSING THE PARASITOLOGICAL AND CLINICAL IMPLICATIONS USING PLASMODIUM CYNOMOLGI AS A MODEL FOR P. VIVAX****Chet Joyner¹**, Monica Cabrera-Mora¹, the MaHPIC Consortium, Alberto Moreno², John W. Barnwell¹, Mary R. Galinski³¹Malaria Host-Pathogen Interaction Center, Emory Vaccine Center, Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, ²Emory Vaccine Center, Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, ³Division of Infectious Diseases, Department of Medicine, Emory University, Atlanta, GA, United States**1475****PLASMODIUM FALCIPARUM FIELD ISOLATES TRIGGER APOPTOSIS PREFERENTIALLY IN HUMAN BRAIN ENDOTHELIAL CELLS COMPARED TO PULMONARY ENDOTHELIAL CELLS****Jean Claude Biteghe Bi Essone¹**, Nadine N'Dilimabaka¹, Julien Ondzagha¹, Jean Bernard Lekana-Douki¹, Dieudonné Nkoghe Mba¹, Philippe Deloron², Dominique Mazier³, Frédéric Gay⁴, **Fousseyni S. Toure Ndouo¹**¹Centre International de Recherches Medicales de Franceville, Franceville, Gabon, ²IRD, UMR 216-Mère et Enfant Face aux Infections Tropicales, Faculté de Pharmacie, Paris, France, ³Inserm 511, Université Pierre et Marie Curie, Paris, France, ⁴AP-HP Groupe hospitalier Pitié-Salpêtrière, Service Parasitologie-Mycologie, Paris, France**1476****CHARACTERIZATION OF ANTIBODIES AGAINST P. FALCIPARUM INVASION PROTEIN PFMSP10****Elizabeth M. Villasis**, Jorge Bendezu, Katherine Garro, Oscar Nolasco, Katherine Torres, Beronica Infante, Dionicia Gamboa, Joseph Vinetz
Universidad Peruana Cayetano Heredia, Lima, Peru**(ACMCIP Abstract)**Wednesday
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1477**CHARACTERIZATION OF A NOVEL ERYTHROCYTE BINDING PROTEIN OF *PLASMODIUM VIVAX***Francis B. Ntumngia¹, Richard Thomson-Luque¹, Leticia Torres², Luzia H. Carvalho², John H. Adams¹¹University of South Florida, Tampa, FL, United States, ²Centro de Pesquisas René Rachou/FIOCRUZ, Belo Horizonte, Brazil**(ACMCIP Abstract)****1478****PATHWAY GROUP LASSO INTEGRATION OF METABOLOMICS AND TRANSCRIPTOMICS TO CHARACTERIZE MALARIA INFECTION IN RHESUS MACAQUES**Sophia Banton¹, Ruiyan Luo², Regina Joice¹, Alberto Moreno¹, Mary R. Galinski¹, MaHPIC Consortium, Dean P. Jones¹, Shuzhao Li¹¹Emory University, Atlanta, GA, United States, ²Georgia State University, Atlanta, GA, United States**1479****MARKERS OF ANEMIA IN KENYAN CHILDREN WITH *P. FALCIPARUM* MALARIA**

Lily E. Kisia, Steven B. Bradfute, Zachery S. Karim, Angela O. Achieng, Elly O. Munde, John M. Ong'echa, Prakasha Kempaiah, Douglas J. Perkins

University of New Mexico School of Medicine, Albuquerque, NM, United States

1480**CLINICAL AND LABORATORY PROFILE OF COMPLICATED MALARIA IN THE COLOMBIAN PACIFIC COAST**Myriam Arévalo-Herrera¹, Lina M. Rengifo², Juliana Henao², Mary Lopez-Perez², Johanna Trejos², Angélica Castellanos², Nora Céspedes², María Isabel Arce², Sócrates Herrera¹¹Caucesco Scientific Research Center, Cali, Colombia, ²Malaria Vaccine and Drug Development Center, Cali, Colombia**1481****PLASMA HAPTOGLOBIN AS A MARKER OF CLINICAL SEVERITY IN GAMBIAN AND MALAWIAN CHILDREN INFECTED WITH *PLASMODIUM FALCIPARUM***Allison K. Ikeda¹, Carol Rowley¹, Yu Yang¹, Joseph Okebe², Augustine Ebonyi², Madi Njie², Simon Correa², Shamanthi Jayasooriya², Aubrey Cunningham³, Climent Casals-Pascual⁴, Michael Walther², Terrie Taylor⁵, Karl Seydel⁵, Hans Ackerman¹¹National Institutes of Health, Atlanta, GA, United States, ²MRC Unit, Fajara, Gambia, ³Section of Paediatrics, Imperial College London, London, United Kingdom, ⁴Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom, ⁵Blantyre Malaria Project, University of Malawi College of Medicine, Blantyre, Malawi**(ACMCIP Abstract)****1482****CELL-SPECIFIC DELETION OF TISSUE FACTOR ALTERS THE IMPACT OF *PLASMODIUM CHABAUDI* AS INFECTION ON MURINE PREGNANCY OUTCOME**Tara C. Bracken¹, Caitlin A. Cooper¹, Nigel Mackman², Julie M. Moore¹¹University of Georgia, Center for Tropical and Emerging Global Diseases, Athens, GA, United States, ²University of North Carolina at Chapel Hill, School of Medicine, Chapel Hill, NC, United States**1483****ANTI-OXIDANT THERAPY SLIGHTLY IMPROVES PREGNANCY OUTCOME IN A MOUSE MODEL OF PLACENTAL MALARIA**Demba Sarr¹, Tara C. Bracken¹, Caitlin A. Cooper¹, Tamas Nagy², Julie M. Moore¹¹University of Georgia, Center for Tropical and Emerging Global Diseases, Athens, GA, United States, ²University of Georgia, Veterinary Pathology, Athens, GA, United States**(ACMCIP Abstract)****1484****TEMPERATURE INDUCED CHANGES IN GLOBAL GENE EXPRESSION PROFILES OF MALARIA-CARRYING MOSQUITOES**Ash Pathak¹, Anthony James², Matthew Thomas³, Courtney Murdock¹¹University of Georgia, Athens, GA, United States, ²University of California, Irvine, CA, United States, ³Pennsylvania State University, University Park, PA, United States**(ACMCIP Abstract)****1485****EXPERIMENTAL DESIGN OF *PLASMODIUM KNOWLESII* INFECTION IN SUSCEPTIBLE VERSUS REFRACTORY NON-HUMAN PRIMATE MODEL HOSTS**

Allison Hankus, Regina Joice, Alberto Moreno, Mary Galinski, MaHPIC, HAMMER

Emory University, Atlanta, GA, United States

Malaria - Chemotherapy and Drug Resistance**1486****POPULATION PHARMACOKINETICS AND PHARMACODYNAMICS OF LUMEFANTRINE IN YOUNG UGANDAN CHILDREN TREATED IN COMBINATION WITH ARTEMETHER FOR UNCOMPLICATED MALARIA**Eskouhie Tchapanian¹, Nancy Sambol¹, Emmanuel Arinaitwe², Shelley A. McCormack¹, Victor Bigira², Humphrey Wanzira², Mary Muhindo², Darren J. Creek³, Nitin Sukumar⁴, Daniel Blessborn⁵, Jordan W. Tappero⁶, Abel Kakuru², Yngve Bergqvist⁷, Francesca T. Aweeka¹, Sunil Parikh⁴¹University of California San Francisco, San Francisco, CA, United States, ²Makerere University, Kampala, Uganda, ³Monash University, Melbourne, Australia, ⁴Yale School of Public Health, New Haven, CT, United States, ⁵Mahidol Oxford Research Unit, Bangkok, Thailand, ⁶Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁷Dalarna University, Uppsala, Sweden**1487****SURVEILLANCE FOR SULFADOXINE-PYRIMETHAMINE (SP) RESISTANT MALARIA PARASITES IN THE LAKE AND SOUTHERN ZONES, TANZANIA USING POOLING AND NEXT-GENERATION SEQUENCING**Jeremiah M. Ngondi¹, Deus S. Ishengoma², Stephanie Doctor³, Kyaw L. Thwai³, Sigbert Mkude⁴, Oresto M. Munishi¹, Ritha A. Willilo¹, Shabbir¹, Lalji¹, Naomi Kaspar⁵, Chonge Kitojo⁵, Lynn A. Paxton⁶, Nick Hathaway⁷, Jeff Bailey⁷, Jonathan Juliano³, Steven R. Meshnick³, Julie Gutman⁸¹RTI International, Dar Es Salaam, United Republic of Tanzania, ²National Institute for Medical Research, Tanga, United Republic of Tanzania, ³University of North Carolina Gillings School of Global Public Health, Chapel Hill, NC, United States, ⁴National Malaria Control Programme, Dar Es Salaam, United Republic of Tanzania, ⁵U.S. President's Malaria Initiative/United States Agency for International Development, Dar Es Salaam, United Republic of Tanzania, ⁶U.S. President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, U.S. Centers for Disease Control and Prevention, Dar Es Salaam, United Republic of Tanzania, ⁷University of Massachusetts Medical School, Worcester, MA, United States, ⁸U.S. President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

UPDATE ON THE ASEXUAL AND SEXUAL STAGE-EFFICACY OF ATOVAQUONE-PROGUANIL AND SINGLE LOW DOSE PRIMAQUINE WITH OR WITHOUT ARTESUNATE IN CAMBODIA

Mariusz Wojnarski¹, Chanthap Lon¹, Panita Gosi¹, Pattaraporn Vanachayangkul¹, Dustin Harrison², Catherine Berjohn², Jessica Lin³, Michele Spring⁴, Somethy Sok⁵, Mali Ittverakul¹, Nillawan Buathong¹, Soklyda Chann¹, Worachet Kuntawunginn¹, Vireak Heang², Nareth Kong⁶, Bolin Chum², Agus Ratchmat², Mark Fukuda¹, Philip Smith¹, Andrew Vaughn², Satharath Prom⁵, Dysoley Lek⁶, David Saunders⁷

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(ACMCIP Abstract)

HEMOGLOBIN E RED BLOOD CELLS DO NOT INFLUENCE THE ANTIPLASMODIAL ACTIVITY OF ARTEMISININ *IN VITRO*

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Hospital, Pursat, Cambodia, ³National Center for Parasitology, Entomology, and

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ASSESSING THE IMPACT OF MALNUTRITION ON THE TREATMENT OUTCOME OF ARTEMISININ-BASED COMBINATION THERAPY IN UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA

Kasia Stepniewska, on behalf of the WWARN Malnutrition Study Group
World Wide Antimalarial Resistance Network, Oxford, United Kingdom

IMPACT OF DIFFERENT MALARIA CHEMOPREVENTION REGIMENS FOR PREGNANT UGANDAN WOMEN ON *P. FALCIPARUM* DRUG RESISTANCE-MEDIATING POLYMORPHISMS

Patrick Tumwebaze¹, Prasanna Jagannathan², Jennifer Legac², Daniel Mota², Stephen Tukwasibwe¹, Meghan Whalen², Abel Kakuru¹, Patience Nayebare¹, Erika Wallender², Diane V. Havlir², Moses R. Kamya¹, Grant Dorsey², Philip J. Rosenthal²

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DRUG RESISTANCE AND RELAPSE IN CAMBODIAN *PLASMODIUM VIVAX*

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(ACMCIP Abstract)

BEHAVIOR OF *PLASMODIUM FALCIPARUM* AGAINST ARTEMISININ-BASED COMBINED THERAPY FOR MALARIA: EVALUATION OF *EX VIVO* SENSITIVITY AND PARASITE DORMANCY

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ELUCIDATING THE MECHANISM OF PIPERAQUINE RESISTANCE IN *PLASMODIUM FALCIPARUM* MALARIA IN CAMBODIA

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(ACMCIP Abstract)

IMPACT EVALUATION AFTER 3 YEARS OF SEASONAL MALARIA CHEMOPREVENTION IMPLEMENTATION BY MASS CAMPAIGNS IN SOUTHERN SENEGAL

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ARTESUNATE TO TREAT SEVERE MALARIA IN TRAVELERS: REVIEW OF EFFICACY AND SAFETY AND PRACTICAL IMPLICATIONS

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TRENDS OF HIGH REDUCTION OF MALARIA CASES IN SEDHIOU DISTRICT FOLLOWING SEASONAL MALARIA CHEMOPREVENTION FIRST CAMPAIGN: LESSONS LEARNED

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MONITORING THE RESPONSES OF *P. FALCIPARUM* TO ANTIMALARIAL DRUGS USING THE DAPI *EX VIVO* TEST: HIGH FREQUENCY OF *P. FALCIPARUM* ISOLATES RESISTANT TO PYRIMETHAMINE IN DIORO, MALI

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COMBINATORIAL GENETIC MODELING OF PFCRT-MEDIATED DRUG RESISTANCE EVOLUTION IN *PLASMODIUM FALCIPARUM*

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ARTEMISININ-COMBINATION THERAPY VERSUS CHLOROQUINE FOR THE TREATMENT OF *PLASMODIUM MALARIAE* IN SABAH, MALAYSIA: A RANDOMIZED CONTROLLED TRIAL

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THE BLOOD SCHIZONTICIDAL ACTIVITY OF TAFENOQUINE IS IMPORTANT FOR ITS PROPHYLACTIC EFFICACY

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Malaria - Diagnosis

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Ouattara, Edith C. Bougouma, Souleymane Sanon, Noélie Henry, Amidou

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Ousmane A. Koita¹, Lansana Sangare¹, Haiyan Deng², Sahare Fongoro¹, Moctar Coulibaly¹, Aliou Sissako¹, Trevor A. Thompson², Youssouf Diarra¹, Mamadou Ba¹, Ababacar Maiga¹, Boubakar Diallo¹, Frances J. Mather², Asif Anwar², Donald J. Krogstad²

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MALARIA RESURGENCE IN WESTERN KENYA HIGHLAND

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1576**RESULTS AND RECOMMENDATIONS FROM THE 2015 MALARIA INDICATORS SURVEY (MIS) IN ZAMBIA****Ruben O. Conner**¹, Mulakwa Kamuliwo², Mutintia Mudenda², Mercie M. Ingewe², Hawela Moonga², Busiku Hamainza², Christopher Lungu³, Kafula Silumbe³, Duncan Earle³, Elizabeth Chizema Kawesha⁴, John M. Miller³¹PATH-MACEPA, Seattle, WA, United States, ²National Malaria Control Center, Lusaka, Zambia, ³PATH-MACEPA, Lusaka, Zambia, ⁴Ministry of Health, Lusaka, Zambia**1577****MALARIA EPIDEMIOLOGY IN LOW ENDEMICITY AREAS OF THE NORTHERN COAST OF ECUADOR****Fabian E. Saenz**¹, Andrea Arévalo¹, Gabriela Valenzuela¹, Andrés Vallejo², Angélica Castellanos³, Andrea Poveda¹, Juan Gutierrez⁴, Alvaro Alvarez⁵, Yi Hen Yang⁴, Yoldy Benavides⁵, Luis E. Castro⁶, Myriam Arévalo-Herrera², Socrates Herrera²¹Pontificia Universidad Católica del Ecuador, Quito, Ecuador, ²Caucaseco Scientific Research Center, Cali, Colombia, ³Primates Center Foundation, Cali, Colombia, ⁴University of Georgia, Athens, GA, United States, ⁵Malaria Vaccine and Drug Development Center, Cali, Colombia, ⁶Ministerio de Salud Pública, Guayaquil, Ecuador**1578****MALARIA INDICATORS IN MALANGA, KIMPESE HEALTH ZONE IN DEMOCRATIC REPUBLIC OF THE CONGO****Mitterrand M. Moyo**¹, Armand Mutwadi¹, Lionel Muyuku¹, Hervé Mutoto¹, Solange E. Umesumbu², Thierry E. Bobanga¹¹University of Kinshasa, Kinshasa, Democratic Republic of the Congo, ²National Malaria Control Program, Kinshasa, Democratic Republic of the Congo**1579****UNDERSTANDING VULNERABILITY AND RESILIENCE OF INDIVIDUALS TO *P. FALCIPARUM* INFECTION IN A STABLE MALARIA TRANSMISSION AREA OF DANGASSA, MALI****M'Bouye Diallo**¹, Mahamoudou Toure¹, Daouda Sanogo¹, Sory Diawara¹, Mahamadou Diakite¹, Nafomon Sogoba¹, Ousmane Koita¹, Ayoubia Diarra¹, Donald Krogstad², Seydou Doumbia¹¹Université des Sciences, des techniques et des technologies de Bamako, Bamako, Mali, ²Tulane University, New Orleans, LA, United States**1580****MALARIA PARASITE POPULATION STRUCTURE AND HUMAN MOBILITY IN NORTHWEST THAILAND****Aimee R. Taylor**¹, Gustavo C. Cerqueira², Standwell C. Nkhoma³, Shalini Nair³, Ian H. Cheeseman³, Marina McDew-White³, Aung P. Phy⁴, Daniel M. Parker⁴, François Nosten⁴, Timothy J. Anderson³, Amy Wesolowski¹, Kenth Engø-Monsen⁵, Daniel E. Neafsey², Caroline Buckee¹¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Broad Institute of Massachusetts Institute of Technology and Harvard, Cambridge, MA, United States, ³Texas Biomedical Research Institute, San Antonio, TX, United States, ⁴Shoklo Malaria Research Unit, Mae Sot, Thailand, ⁵Telenor Research, Fornebu, Norway**1581****IMPACT OF ALL-CAUSE ANEMIA ON THE RISK OF FALCIPARUM MALARIA IN MALIAN CHILDREN****Jaymin C. Patel**¹, Mahamadou Diakite², Catherine R. Lesko³, Tatiana Lopera-Mesa⁴, **Steve M. Taylor**⁵, Rick M. Fairhurst⁴¹University of North Carolina, Chapel Hill, NC, United States, ²University of Bamako, Bamako, Mali, ³Johns Hopkins University, Baltimore, MD, United States, ⁴National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ⁵Duke University Medical Center, Durham, NC, United States**1582****CROSS-BORDER MALARIA: THE CONTRIBUTION OF POPULATION MOVEMENT TO SUSTAINED MALARIA TRANSMISSION IN MUTASA DISTRICT, ZIMBABWE****Lilly V. Siems**¹, Edmore Mamini², Sungano Mharakura³, Shungu Munyati², Lovemore Gwanzura⁴, Susan Mutambu⁵, William J. Moss¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Biomedical Research and Training Institute, Harare, Zimbabwe, ³Africa University, Harare, Zimbabwe, ⁴University of Zimbabwe, Harare, Zimbabwe, ⁵National Institute of Health Research, Harare, Zimbabwe**1583****DEFINING THE MICRO-EPIDEMIOLOGY OF MALARIA****Melanie Bannister-Tyrrell**, Koen Peeters Grietens

Institute of Tropical Medicine, Antwerpen, Belgium

1584**CHARACTERIZING THE ASYMPTOMATIC AND SUBMICROSCOPIC MALARIA RESERVOIR IN SOUTHERN ZAMBIA: ASSOCIATED RISK FACTORS AND GAMETOCYTE PREVALENCE****Tamaki Kobayashi**¹, Natasha M. Laban², Masiliso Phiri³, Harry Hamapumbu², Kelly Searle¹, Jennifer C. Stevenson¹, Philip E. Thuma², William J. Moss¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Macha Research Trust, Choma, Zambia, ³Ministry of Fisheries and Livestock, Nchelenge, Zambia**1585****RETURNING TO THE PROBLEM OF MALARIA IN CHILDREN UNDER 5 IN LIBERIA****Patricia McQuilkin**¹, Benetta Collins-Andrews², Udhayashankar Kanagasabai³, Eric Adu³, Ann Moormann¹¹University of Massachusetts, Worcester, MA, United States, ²Liberian Post Graduate Residency Program, Monrovia, Liberia, ³John F Kennedy Medical Center, Monrovia, Liberia**1586****POPULATION-BASED MALARIA SURVEILLANCE BY HEALTHCARE WORKERS IN THE PROVINCES OF HAUT KATANGA AND LUALABA IN THE DRC****Ghislain Makan**¹, Guy Muswil², Oscar Mutanda³, Rachel Hampshie⁴, Patrick Kasongo², Mark Kostove⁵, Elana Hazghia⁵, Ernest Yeung⁵, Bahareh Gholamzadeh⁵, Nora Zwingerman⁵, **Santiago Ferro**³¹National Malaria Control Program, Lubumbashi, Republic of the Congo, ²Ivanhoe Mines, Lubumbashi, Democratic Republic of the Congo, ³Chemonics, Lubumbashi, Democratic Republic of the Congo, ⁴Chemonics International, Washington, DC, United States, ⁵Fio Corporation, Toronto, ON, Canada**1587****EVALUATION OF SEROLOGICAL BIOMARKERS OF PLASMODIUM VIVAX AND PLASMODIUM FALCIPARUM TRANSMISSION IN THE SOLOMON ISLANDS****Rohan Garg**¹, Christopher King¹, James Kazura¹, Ivo Mueller², Andreea Waltmann³¹Case Western Reserve University, Shaker Heights, OH, United States, ²Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ³The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia**(ACMCIP Abstract)**

1588**EPIDEMIOLOGY OF CHRONIC ASYMPTOMATIC *PLASMODIUM FALCIPARUM* INFECTIONS AMONG ALL AGES IN AN AREA WITH SEASONAL MALARIA TRANSMISSION IN BONGO DISTRICT, GHANA****Kathryn E. Tiedje**¹, Godfred Agongo², Anita Ghansah³, Thomas Anyorigiya², Daniel Azongo², Aprielle Wills⁴, Timothy Awine², Abraham Oduro², Kwadwo A. Koram³, Mercedes Pascual⁵, Karen P. Day¹¹University of Melbourne/Bio21 Institute, Parkville, Australia, ²Navrongo Health Research Centre, Navrongo, Ghana, ³Noguchi Memorial Institute for Medical Research, Legon, Ghana, ⁴New York University, New York, NY, United States, ⁵University of Chicago, Chicago, IL, United States**1589****DEMOGRAPHIC AND CLINICAL PROFILES OF *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* PATIENTS AT A TERTIARY CARE CENTER IN SOUTHWESTERN INDIA****Laura Chery**¹, Jennifer Maki¹, Anjali Mascarenhas¹, Jayashri Walke², Marina Vaz², Wenyun Zuo³, Maria Bernabeu⁴, Kirsten Skillman⁵, Suresh K. Mahoharan², Ashwani Kumar⁶, Neena Valecha⁷, Shripad Tuljapurkar³, Joseph Smith⁴, Manoj Duraisingh⁵, Mimi Silveria², Edwin Gomes², Pradipsinh K. Rathod¹¹University of Washington, Seattle, WA, United States, ²Goa Medical College, Bambolim, India, ³Stanford University, Stanford, CA, United States, ⁴CIDR, Seattle, WA, United States, ⁵Harvard School of Public Health, Boston, MA, United States, ⁶NIMR-Goa, Panjim, India, ⁷NIMR, New Delhi, India**Malaria - Genetics/Genomics****1590****CONSERVED SEQUENCE MOTIFS IN PLACENTAL MALARIA VACCINE CANDIDATE VAR2CSA DESPITE LARGE OVERALL SEQUENCE DIVERSITY****Antoine Dara**¹, Mark A. Travassos¹, Matthew Adams¹, Elliott F. Drábek², Sonia Agrawal¹, Drissa Coulibaly³, Mahamadou A. Théra³, Ogobara K. Doumbo³, Myaing M. Nyunt¹, Joana C. Silva⁴, Christopher V. Plowe¹, Miriam K. Laufer¹¹Division of Malaria Research, Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ²Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, ³Malaria Research and Training Center, University of Science, Techniques and Technologies, Bamako, Mali, ⁴Institute for Genome Sciences, University of Maryland School of Medicine, Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD, United States**1591****INDEPENDENT ORIGIN AND GLOBAL DISTRIBUTION OF DISTINCT *PLASMODIUM VIVAX* DUFFY-BINDING PROTEIN GENE DUPLICATIONS****Jessica Hostetler**¹, Eugenia Lo², Usheer Kanjee³, Pradipsinh K. Rathod⁴, Marcelo U. Ferreira⁵, Guiyun Yan², Rick M. Fairhurst¹, Manoj T. Duraisingh³, Julian C. Rayner⁶¹Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ²Program in Public Health, University of California, Irvine, CA, United States, ³Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States, ⁴MESA-ICEMR, Goa Medical College and Hospital, Goa, India, ⁵Departamento de Parasitologia, Instituto de Ciências Biomédicas, Universidade de São Paulo, São Paulo, Brazil, ⁶Malaria Programme, Wellcome Trust Sanger Institute, Hinxton, United Kingdom**(ACMCIP Abstract)****1592****INTERACTIONS AND COMPETITIVE GROWTH WITHIN MIXED INFECTIONS OF *PLASMODIUM FALCIPARUM*****Abigail R. Tirrell**¹, Lisa A. Checkley¹, Marina McDew-White², François H. Nosten³, Timothy J. Anderson², Michael T. Ferdig¹¹University of Notre Dame, Notre Dame, IN, United States, ²Texas Biomedical Research Institute, San Antonio, TX, United States, ³Centre for Tropical Medicine and Global Health, Oxford, United Kingdom**1593****MULTIPLEX BARCODED NEXT-GENERATION SEQUENCING OF MULTICLONAL *PLASMODIUM FALCIPARUM* GENOTYPES****Brandt Levitt**, Wendy P. O'Meara, Scott Langdon, Steve M. Taylor
Duke University Medical Center, Durham, NC, United States**1594****THE DIVERSITY OF RNAs EXPRESSED IN *PLASMODIUM VIVAX*****Adam Kim**¹, Jean Popovici², Amelie Vantaux², Didier Menard², David Serre¹¹Cleveland Clinic, Cleveland, OH, United States, ²Institut Pasteur, Phnom Penh, Cambodia**(ACMCIP Abstract)****1595****EXCEPTIONALLY LONG-RANGE HAPLOTYPES IN *PLASMODIUM FALCIPARUM* CHROMOSOME 6 MAINTAINED IN AN ENDEMIC AFRICAN POPULATION****Alfred Amambua-Ngwa**¹, Bakary Danso¹, Sukai Ceesay¹, Davies Nwakanma¹, David Jeffries¹, Umberto D'Alessandro¹, David Conway²¹Medical Research Council Unit The Gambia, Banjul, Gambia, ²London School of Hygiene & Tropical Medicine, London, United Kingdom**(ACMCIP Abstract)****1596****DE NOVO VARIANT CALLING TO RESOLVE TRANSMISSION DYNAMICS WITHIN CLONAL *P. FALCIPARUM* SAMPLES: A CRUCIAL TOOL FOR THE MALARIA 'ENDGAME'****Seth N. Redmond**¹, Sarah Volkman², Daouda Ndiaye³, Dyann Wirth⁴, Daniel Neafsey¹¹Broad Institute, Cambridge, MA, United States, ²Harvard T.H. Chan School of Public Health, Cambridge, MA, United States, ³University of Cheikh Anta Diop, Dakar, Senegal, ⁴Harvard T.H. Chan School of Public Health, Boston, MA, United States**1597****ELUCIDATION OF THE DIVERGENT APICOPLAST GENOMES OF *PLASMODIUM OVALE CURTISI* AND *PLASMODIUM OVALE WALLIKERI*****Mary C. Oguike**¹, Ernest D. Benavente¹, Taane G. Clark¹, Hans-Peter Fuehrer², Arnab Pain³, **Colin J. Sutherland**¹¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²University of Veterinary Medicine, Vienna, Austria, ³King Abdullah University of Science & Technology, Thuwal, Saudi Arabia**(ACMCIP Abstract)****1598****WHOLE-GENOME PROFILING OF DIFFERENTIALLY EXPRESSED GENES IN CHILDREN WITH MALARIAL ANEMIA****Angela O. Achieng**¹, Zachery S. Karim¹, Gavin Pickett¹, Zidong Li¹, Qiuying Cheng¹, Bernard Guyah¹, Samuel B. Anyona², John M. Ong'echa¹, Christophe G. Lambert¹, Douglas J. Perkins¹, Prakasha Kempaiah¹¹University of New Mexico School of Medicine, Albuquerque, NM, United States, ²Department of Biomedical Sciences and Technology, Maseno, Kenya**1599****ANALYSIS OF MULTIPLICITY OF ETHIOPIAN *PLASMODIUM VIVAX* INFECTIONS AND RELAPSE PATTERNS USING PVMSP1 AMPLICON DEEP SEQUENCING****Daibin Zhong**¹, Xiaoming Wang¹, Delenasaw Yewhalaw², Eugenia Lo¹, Elizabeth Hemming-Schroeder¹, Guofa Zhou¹, Ming-Chieh Lee¹, Guiyun Yan¹¹University of California Irvine, Irvine, CA, United States, ²Tropical and Infectious Diseases Research Center, Jimma University, Jimma, Ethiopia

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IMPROVED, HIGH-RESOLUTION SINGLE-CELL GENOMIC PROFILING OF HUMAN MALARIA PARASITES

Simon G. Trevino¹, Shalini Nair¹, Standwell Nkhoma², Benjamin J. Daniel³, Karla Moncada³, François Nosten⁴, Ian H. Cheeseman¹

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DISTINCT ARCHITECTURE OF *PLASMODIUM FALCIPARUM* POPULATIONS FROM SOUTH ASIA, WITH COUNTRY-LEVEL CLUSTERING OF GENOMIC RELATIONSHIPS

Shiva Kumar¹, Devaraja G. Mudeppa¹, Ambika Sharma², Anjali Mascarenhas², Rashmi Dash², Ligia Pereira², Riaz B. Shaik², Jennifer N. Maki¹, John White¹, Wenyun Zuo³, Shripad Tuljapurkar³, Manoj T. Duraisingh⁴, Edwin Gomes², Laura Chery¹, Pradipsinh K. Rathod¹

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EVALUATING THE INFORMATION VALUE OF PARASITE GENOMICS FOR MALARIA ELIMINATION

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ABSENCE OF *IN-VIVO* SELECTION OF K13 POLYMORPHISMS AFTER ARTEMETHER LUMEFANTRINE TREATMENT IN UGANDA

Betty Balikagala¹, Miki Sakurai², Mie Ikeda³, Shouki Yatsushiro⁴, Nobuyuki Takahashi², Mary Auma⁵, Edward H. Ntege¹, Daisuke Ito¹, Eizo Takashima¹, Nirianne Marie Q. Palacpac⁶, Joseph Okello Onen⁷, Masatoshi Kataoka⁴, Kimura Eisaku⁶, Toshihiro Horii⁸, Toshihiro Mita³, Takafumi Tsuboi¹

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EUPATHDB: A POWERFUL EUKARYOTIC PATHOGEN GENOMIC AND FUNCTIONAL GENOMIC DATA MINING RESOURCE

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Malaria – Immunology

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THE BIOLOGICAL FUNCTION OF ANTIBODIES INDUCED BY THE RTS,S/AS01 MALARIA VACCINE CANDIDATE IS DETERMINED BY THEIR FINE SPECIFICITY

Sidhartha Chaudhury¹, Christian F. Ockenhouse², Jason A. Regules³, Sheetij Dutta⁴, Anders Wallqvist¹, Erik Jongert⁵, Robert Paris⁴, Norman C. Waters⁴, Franck Lemiale², Elke S. Bergmann-Leitner⁴

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PLACENTAL MALARIA IS ASSOCIATED WITH ALTERED FETAL CYTOKINE PROFILES

Sarah Boudova¹, Titus Divala², Randy Mungwira², Patricia Mawindo², Tamiwe Tamoka³, Marcelo B. Szein⁴, Kirsten E. Lyke¹, Cristiana Cairo⁵, Miriam K. Laufer¹

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PLASMODIUM FALCIPARUM INFECTION AND VACCINE RESPONSES: SHOULD WE TREAT PRESUMPTIVELY?

Sara Anne Healy¹, Irfan Zaidi¹, Charles Anderson¹, Issaka Sagara², Mahamadou S. Sissoko², Erin Gabriel³, Mamadou Coulibaly², Jen C.C. Hume¹, Karamoko Niare², Fanta Koita², Sumana Chakravarty⁴, B. Kim Lee Sim⁴, Thomas L. Richie⁴, Stephen L. Hoffman⁴, Ogobara Doumbo², Patrick E. Duffy¹

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PATTERNS OF ANTIBODY RESPONSES TO *PLASMODIUM FALCIPARUM* INVASION LIGANDS ACROSS DIFFERENT ENDEMIC POPULATIONS IN WEST AFRICA

Henrietta E. Mensah-Brown¹, Harvey Aspeling-Jones², Lindsay B. Stewart², Rupert K. Delimini³, Francis Atuguba⁴, Kwaku Asante Poku³, Bismarck Dinko⁵, Gavin J. Wright⁶, James G. Beeson⁷, David J. Conway², Gordon A. Awandare¹

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ISOLATION AND CHARACTERIZATION OF HUMAN MONOCLONAL ANTIBODIES TO *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN FROM MALARIA EXPOSED INDIVIDUALS FROM BRAZILIAN

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INVESTIGATING A POTENTIAL ROLE FOR TH1-POLARIZED TFH CELLS IN DRIVING ATYPICAL MEMORY B CELL EXPANSION IN MALARIA

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HUMAN ANTIBODIES IN MALARIA: STRUCTURE, FUNCTION, MECHANISM AND NEUTRALIZATION

Darya Urusova¹, Abhishek Sethi¹, Lenore Carias², Nichole D. Salinas¹, Edwin Chen¹, Samanth J. Barnes³, Sokunthea Sreng⁴, Suon Seila⁴, Chanaki Amaratunga⁴, Rick M. Fairhurst⁵, John H. Adams³, Christopher L. King², Niraj H. Tolia¹

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ELUCIDATING NATURAL KILLER CELL-MEDIATED ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY TOWARDS RED BLOOD CELLS INFECTED BY *PLASMODIUM FALCIPARUM*

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TRANSPLACENTAL TRANSFER OF MATERNAL MALARIA-SPECIFIC IGG3 IS ALTERED BY A POLYMORPHISM IN THE BINDING DOMAIN TO FCRN

Celia Dechavanne¹, Fernanda Alvarado¹, Magalie Dambrun², Jean-Michel Dugoujeon³, Evelyne Guitard³, Indu Malhorta¹, Andre Garcia², Florence Migot-Nabias², Christopher L. King¹

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EVALUATING THE ANTIMALARIAL ANTIBODY RESPONSE TO SEVERE *P. FALCIPARUM* MALARIA IN UGANDAN CHILDREN: A CASE-CONTROL STUDY

Victoria Nakimbugwe¹, Robert Opoka², Joseph Smith³, Chandy John⁴, Arlene Dent⁵

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TESTING ANTIGEN INTERFERENCE ON A MULTIPLEX PLATFORM FOR MALARIA VACCINE RESEARCH

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DEFINING MOLECULAR ADJUVANT EFFECTS ON HUMAN B CELL SUBSETS

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(ACMCIP Abstract)

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IDENTIFICATION OF PROTECTIVE B-CELL EPITOPES WITHIN PFSEA-1, A NOVEL VACCINE CANDIDATE FOR *P. FALCIPARUM* MALARIA

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DISTINCT EXPRESSION PATTERN OF INHIBITORY MOLECULES ON CD4+ T CELLS IS ASSOCIATED WITH UNCOMPLICATED VERSUS COMPLICATED MALARIA

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USING DEEP POPULATION SEQUENCING TO INVESTIGATE IMMUNE-BASED SELECTION ON ANTIGENIC *LOC*I IN *PLASMODIUM FALCIPARUM*

Angela M. Early¹, Peter B. Gilbert², Marc Lievens³, Bronwyn MaInnis¹, Christian F. Ockenhouse⁴, Sarah K. Volkman⁵, the RTS,S Clinical Trials Partnership, Dyann F. Wirth⁵, Daniel E. Neafsey¹

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ANTIGENICITY AND TRANSMISSION-BLOCKING EFFICACY OF *PLASMODIUM VIVAX* PVS48/45 PROTEIN

Angélica María Castellanos¹, Myriam Arevalo-Herrera¹, Carolina Blanco², Xiomara Gaitan¹, Andres Amado¹, Manuela Herrera¹, Nora Céspedes¹, Carlos Echeverry¹, Andres Vallejo³, María Isabel Arce², Sócrates Herrera²

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1621**HUMAN CORD BLOOD CXCR5+ CD4 T CELLS: ASSOCIATION WITH *IN UTERO* EXPOSURE AND ANTIBODY RESPONSES TO *PLASMODIUM FALCIPARUM***Samuel Tassi Yunga¹, Lionel Ambe², Joseph Siewe², Matthew Nelson¹, Obadia M. Kenji¹, Jourdan Posner¹, Sandra Chang¹, Rose G. Leke²¹University of Hawaii, Honolulu, HI, United States, ²The Biotechnology Center, University of Yaounde 1, Yaounde, Cameroon**1622*****PLASMODIUM FALCIPARUM* WHOLE PROTEOME ANTIBODY PROFILES OF EUROPEAN VOLUNTEERS IMMUNIZED WITH SPOOROZOITES UNDER CHLOROQUINE CHEMOPROPHYLAXIS**Joshua M. Obiero¹, Joseph J. Campo², Benjamin Mordmülle³, Anja Scholzen⁴, Else M. Bijker⁴, Sumana Chakravarty⁵, Andy Teng², Jozelyn Pablo², Chris Hung², Meral Esen³, David H. Davies¹, Peter G. Kremsner³, Stephen L. Hoffman⁵, Robert W. Sauerwein⁴, Philip L. Felgner¹¹University of California Irvine, Irvine, CA, United States, ²Antigen Discovery, Inc., Irvine, CA, United States, ³Institute of Tropical Medicine and German Center for Infection Research, University of Tübingen, Tübingen, Germany, ⁴Radboud University Medical Center, Nijmegen, Netherlands, ⁵Sanaria, Inc., Rockville, MD, United States

(ACMCIP Abstract)

Malaria – Other**1623****RAPID ASSESSMENT OF A NATIONWIDE LONG LASTING INSECTICIDAL (MOSQUITO) NETS DISTRIBUTION CAMPAIGN IN BENIN**Filemon Tokponnon¹, Bella Hounkpe Do-Santos¹, Peter Thomas², Miriam Oke¹¹Programme National de Lutte contre le Paludisme, Cotonou, Benin, ²U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Cotonou, Benin**1624****DATA QUALITY ASSURANCE AND DATA MANAGEMENT IN A LARGE SYSTEMS BIOLOGY PROJECT: MAHPIC**

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1625**FLUORESCENT LABELLING OF WILD TYPE *PLASMODIUM* SPECIES WITHIN THE MOSQUITO HOST: A NOVEL METHOD TO TARGET SPOOROZOITES**Béatrice M. Winkel¹, Anton Bunschoten², Mick M. Welling¹, Leon P. Munting¹, Marijke C. Langenberg¹, Blandine Franke-Fayard¹, Séverine C. Chevalley¹, Maria Yazdanbakhsh¹, Koen Decherling³, Fijs W. van Leeuwen¹, Meta Roestenberg¹¹Leiden University Medical Center, Leiden, Netherlands, ²Wageningen University, Wageningen, Netherlands, ³TropIQ Health Sciences, Nijmegen, Netherlands

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1626**THE IMPACT OF REVISED HEALTH MANAGEMENT INFORMATION SYSTEM (HMIS) REPORTING FORMS ON THE QUALITY OF MALARIA SURVEILLANCE DATA IN UGANDA: AN INTERRUPTED TIME SERIES ANALYSIS**Nelli Westercamp¹, Sarah Staedke², Grant Dorsey³, Simon P. Kigozi⁴, Alex Ndyabakira⁴, B.K. Kapella¹, Steven Yoon¹, Mary J. Hamel¹, Alexander Rowe¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³University of California San Francisco, San Francisco, CA, United States, ⁴Infectious Diseases Research Collaboration, Kampala, Uganda**1627****IMPACT OF THE APPLICATION OF THE NEW GUIDELINES OF MALARIA CASE MANAGEMENT IN SENEGAL**

Alioune B. Gueye, Seynabou Gaye, Fatou Ba, Medoune Ndiop, Ibrahima Diallo, Moustapha Cisse, Mady Ba

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1628**THE "DYNAMIC EPIDEMIOLOGY" OF MALARIA ELIMINATION IN EL SALVADOR: THE ROLE OF PROGRAM DECENTRALIZATION, STRATIFICATION AND TIMELY TREATMENT IN THE RAPID AND DURABLE DECLINE IN MALARIA INCIDENCE SINCE THE EARLY 1980S**Robert Burton¹, José Eduardo Chévez², Mauricio Sauerbrey³, Angela Hartley¹, Kammerle Schneider¹, Caterina Guinovart¹, Matthew Boslego¹, Geoffrey Kirkwood¹, Jamie Enrique Escobar², Marta Alicia Ramirez², Mirna Elizabeth Gavidia², Richard Steketee¹, Carlos C. Campbell¹¹PATH, Seattle, WA, United States, ²Ministerio de Salud, San Salvador, El Salvador, ³The Carter Center, Atlanta, GA, United States**1629****MOVING TOWARD IMPROVED MEASUREMENT OF MALARIA MORTALITY AT THE POPULATION LEVEL**Samantha Herrera¹, Yeetey Enuameh², George Adiei², Kenneth Ae-Ngibise², Kwaku Poku Asante², Osman Sankoh³, Seth Owusu-Agyei², Yazoume Ye¹¹ICF International, Rockville, MD, United States, ²INDEPTH Network, Kintampo Health Research Centre, Kintampo, Ghana, ³INDEPTH Network, Accra, Ghana**1630****MEASURING THE IMPACT OF MALARIA ON HEALTH-RELATED QUALITY OF LIFE OF CHILDREN IN RURAL WESTERN KENYA**Elizabeth L. Glaser¹, Jane A. Odhiambo¹, Job Osewe¹, Bonface Leo², George Olang³, M. Nabie Bayoh³, Allyala Krishna Nandakumar¹, John E. Gimnig⁴, Donald S. Shepard¹, Mary J. Hamel⁴, Jennifer N. Perloff¹¹Brandeis University, Waltham, MA, United States, ²Saint Elizabeth Lwak Mission Medical Center, Lwak, Kenya, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States**1631****THE CATASTROPHIC IMPACT OF MALARIA ON HOUSEHOLDS IN RURAL WESTERN KENYA**Elizabeth L. Glaser¹, Jane A. Odhiambo¹, Job Osewe¹, Bonface Leo², George Olang³, M. Nabie Bayoh³, Allyala Krishna Nandakumar¹, John E. Gimnig⁴, Donald S. Shepard¹, Mary J. Hamel⁴, Jennifer N. Perloff¹¹Brandeis University, Waltham, MA, United States, ²Saint Elizabeth Lwak Mission Medical Center, Lwak, Kenya, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States**1632****IMPROVING PRIVATE SECTOR MALARIA CASE SURVEILLANCE AND QUALITY ASSURANCE USING DHIS2: LESSONS LEARNED**

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1633**METHOD FOR THE SIMULTANEOUS MEASURE OF THE LEVEL OF NINE ANTIMALARIAL DRUGS IN DRIED BLOOD SPOT SAMPLES USING LC-TANDEM MASS SPECTROMETRY AND RELATIONSHIP OF LUMEFANTRINE CONCENTRATIONS IN DRIED BLOOD SPOT SAMPLES AND IN PLASMA**

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1634**MALARIA AND HELMINTH COINFECTION-INDUCED OXIDATIVE STRESS AND CHANGES IN ANTIOXIDANT STATUS AMONG AFEBRILE SCHOOL CHILDREN IN IBADAN, SOUTHWEST NIGERIA**

George O. Ademowo, Ayokulehin M. Kosoko, Olawunmi R. Rabiun, Hannah O. Dada-Adegbola, Olatubosun G. Arinola, Catherine O. Falade
University of Ibadan, Ibadan, Nigeria

1635**HIGH THROUGHPUT IDENTIFICATION OF ANOPHELES GAMBIAE MIDGUT GENES INVOLVED IN THE INVASION OF PLASMODIUM FALCIPARUM**

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Malaria - Vaccines

1636**RELATIONSHIPS BETWEEN TRAVEL AND RTS,S MALARIA VACCINE EFFICACY IN LILONGWE, MALAWI**

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1637**ASSESSMENT OF A TRANSGENIC PLASMODIUM BERGHEI PARASITE EXPRESSING PLASMODIUM FALCIPARUM CELL-TRAVERSAL PROTEIN FOR OOKINETES AND SPOOROZOITES (PFCELTOS) FOR USE AS A HOMOLOGOUS RODENT CHALLENGE MODEL TO TEST VACCINE EFFICACY**

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1638**LACK OF GEOGRAPHIC SIGNAL IN THE PATTERN OF ALLELE AND EPITOPE FREQUENCIES IN FOUR MALARIA LIVER STAGE CANDIDATE VACCINE ANTIGENS**

Amed Ouattara¹, Moser Kara¹, Mahamadou Thera², Elliott F. Drábek¹, Drissa Coulibaly², Sonia Agrawal¹, Mark A. Travassos¹, Matthew Adams¹, Amadou Niangaly², Youssouf Tolo², David Saunders³, Chanthap Lon³, Kay Thwe Han⁴, Shannon Takala-Harrison¹, Myaing M. Nyunt¹, Ogobara K. Doumbo², Christopher V. Plowe¹, Joana C. Silva¹

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1639**A CONSENSUS PROTEOME OF PLASMODIUM VIVAX SPOOROZOITES**

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1640**PLASMODIUM FALCIPARUM CIRCUMSPOROZOITE PROTEIN ADJUVANTED WITH LIPOSOMAL ADJUVANT INDUCES HIGHLY PROTECTIVE RESPONSES IN C57BL/6 MICE AGAINST TRANSGENIC PARASITE CHALLENGE**

Christopher J. Genito, Zoltan Beck, Timothy W. Phares, Fanta Kalle, Gary R. Matyas, Carl R. Alving, Norman C. Waters, Sheetij Dutta

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1640**PLASMODIUM FALCIPARUM CIRCUMSPOROZOITE PROTEIN ADJUVANTED WITH LIPOSOMAL ADJUVANT INDUCES HIGHLY PROTECTIVE RESPONSES IN C57BL/6 MICE AGAINST TRANSGENIC PARASITE CHALLENGE**

Christopher J. Genito, Zoltan Beck, Timothy W. Phares, Fanta Kalle, Gary R. Matyas, Carl R. Alving, Norman C. Waters, Sheetij Dutta

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1641**MASS DIRECT SKIN FEEDS OF ANOPHELES COLUZZII IN THE CONTEXT OF MALARIA TRANSMISSION BLOCKING VACCINE TRIALS IN BANCOUNAMA, MALI**

Daman Sylla¹, Adam Sacko¹, Jen C.C. Hume², Boubacar Coulibaly¹, Chata Doumbia¹, Lakamy Sylla¹, Youssouf Sinaba¹, Mahamadou A. Maiga¹, Issaka Sagara¹, Sara A. Healy², Ogobara Doumbo¹, Sekou F. Traore¹, Patrick E. Duffy², Mamadou Coulibaly¹

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1642**DESIGN, EXPRESSION AND SCALABLE CGMP PRODUCTION OF FMP014 - A SELF-ASSEMBLING PROTEIN NANOPARTICLE AS THE BASIS OF A VACCINE AGAINST PLASMODIUM FALCIPARUM MALARIA**

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OVERCOMING DIVERSITY OF AMA1: EVIDENCE OF POLYMORPHISM DILUTION MEDIATED REFOCUSING OF RESPONSES TOWARDS CONSERVED EPITOPES IN RHESUS MONKEYS VACCINATED WITH QUADVAX+AS01

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T CELL IMMUNOGENICITY AND CORRELATES OF PROTECTION FROM A DOSE-ESCALATION SAFETY AND EFFICACY STUDY OF PFSPZ WITH CHLOROQUINE IN MALARIA-NAÏVE ADULTS

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EQUATORIAL GUINEA'S FIRST EVER CLINICAL TRIAL: TOLERABILITY, SAFETY AND IMMUNOGENICITY OF PFSPZ VACCINE IN YOUNG EQUATOGUINEAN ADULTS

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PLACENTAL MALARIA VACCINES: COMPARING GLYCOSYLATED AND NON-GLYCOSYLATED N-TERMINAL DOMAINS OF *PLASMODIUM FALCIPARUM* VAR2CSA PROTEIN PREPARED AS RECOMBINANT PROTEIN OR DNA VACCINES

Shaji Daniel, Holly Torano, Joan Aebig, Lynn Lambert, Sarah Brockley, Emma K. Barnafo, Kelly Rausch, Michal Fried, Patrick E. Duffy
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(ACMCIP Abstract)

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CHANGING THE PARADIGM OF VACCINE DEVELOPMENT: FROM A WESTERN-LED TO AN INTERNATIONAL, MULTI-PARTNER, PARTIAL AFRICAN-FUNDED CONSORTIUM APPROACH

Peter F. Billingsley, on Behalf of the International PfSPZ Consortium
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ADVANCING PARASITOLOGY, ENTOMOLOGY AND VACCINOLOGY BY MANUFACTURING WHOLE PARASITE (EUKARYOTIC CELL) ASEPTIC, PURIFIED VACCINES PRODUCED IN ARTHROPODS: CHALLENGES, SUCCESSES AND TRAJECTORY FOR PFSPZ VACCINES

Kim Lee B. Sim, on behalf of the Sanaria Manufacturing Team
Sanaria, Rockville, MD, United States

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DISTRIBUTION LOGISTICS TO SUPPLY CRYOPRESERVED PFSPZ VACCINE TO TRAVEL CLINICS AND MALARIA MASS IMMUNIZATION PROGRAMS

Eric R. James, Adam J. Ruben, Peter F. Billingsley, Thomas L. Richie, Anusha Gunasekera, Anita Manoj, B Kim Lee Sim, Stephen L. Hoffman
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EVALUATION OF RPFMSP2-BASED VACCINES FOR INCLUSION IN A MULTI-COMPONENT MALARIA VACCINE FORMULATION

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(ACMCIP Abstract)

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USE OF A *PLASMODIUM*-SPECIFIC CARRIER PROTEIN TO ENHANCE PRODUCTION OF RECOMBINANT PFS25, A LEADING TRANSMISSION-BLOCKING VACCINE CANDIDATE

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ANTIBODY PROFILES TO WHEAT GERM CELL-FREE SYSTEM SYNTHESIZED *P. FALCIPARUM* PROTEINS CORRELATE WITH PROTECTION FROM SYMPTOMATIC MALARIA IN UGANDA

Bernard N. Kanoi¹, Eizo Takashima¹, Masayuki Morita¹, Edward H. Ntege¹, Betty Balikagala¹, Nirianne M. Q. Palacpac², Adoke Yeka³, Thomas G. Egwang⁴, Toshihiro Horii², Takafumi Tsuboi¹
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IDENTIFICATION OF PFRIPR, AN RH5-INTERACTING PROTEIN, AS A HIGHLY CONSERVED BLOOD-STAGE MALARIA VACCINE CANDIDATE AGAINST *PLASMODIUM FALCIPARUM*

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Malaria/Mosquitoes - Field Prevention

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MULTIPLE INSECTICIDE RESISTANCE IN AN HIGHLY INFECTED POPULATION OF THE MALARIA VECTOR *ANOPHELES FUNESTUS* IN BENIN

Rousseau Djouaka

IITA - Cotonou, Benin, West Africa, Cotonou, Benin

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COVERAGE OF SEASONAL MALARIA CHEMOPREVENTION DELIVERED BY MOBILE TEAMS AT FIXED POINTS IN 14 DISTRICTS IN MALI, THROUGH ACCESS-SMC

Issaka Sagara¹, Hama Maiga¹, Fatou Diawara¹, Mahamadou Kaya¹, Seydou Traore¹, Alassane Dembele¹, Sanga Goro¹, Moussa Traore¹, Paul Snell², Diakalia Kone³, Patrice Coulibaly⁴, Eric Hubbard⁴, Lantonirina Razafindralambo⁵, Ogobara Doumbo¹, Matthew Cairns², Paul J. Milligan², Alassane Dicko¹

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1656

DESIGN, MONITORING, AND IMPLEMENTATION OF THE THIRD AND FOURTH ROUNDS OF SCHOOL NET DISTRIBUTION TO MAINTAIN UNIVERSAL ACCESS TO LONG-LASTING INSECTICIDAL NETS IN SOUTHERN TANZANIA

Waziri Nyoni¹, David Dadi¹, Noella Kisoka¹, Peace Nyankoko², Dismas Mwalimu², Renata Mandike³, Ally Mohammed³, George Greer⁴, Naomi Kaspar⁴, Karen Kramer³, Gabrielle Hunter⁵, Hannah Koenker⁵, Matthew Lynch⁵

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PLANT-MEDIATED EFFECTS ON MOSQUITO CAPACITY TO TRANSMIT HUMAN MALARIA

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PROCESS EVALUATION OF CONTINUOUS ITN DISTRIBUTION IN ZANZIBAR

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ASSESSMENT OF MALARIA TRANSMISSION FROM HUMAN TO MOSQUITOES IN SEASONAL MALARIA CHEMOPREVENTION IN THE WESTERN REGION OF BURKINA FASO

Rakiswendé Serge Yerbanga¹, Bienvenue K. Yaméogo¹, Franck A. Yao¹, Seydou Y. Ouattara¹, Thierry Lefevre², Dari Da¹, Issaka Zongo¹, Frederic Nikiéma¹, Yves-Daniel Compaoré¹, Roch K. Dabiré¹, Paul Milligan³, Irene Kuepfer³, Daniel Chandramohan³, Brian Greenwood³, Anna Cohuet², Jean Bosco Ouedraogo¹

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COMMUNITY ENGAGEMENT AROUND THE IMPLEMENTATION OF TRIAL OF INSECTICIDE-TREATED WALL LINING FOR MALARIA CONTROL IN RURAL TANZANIA

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SMALL SOLAR POWERED 'BOKO' FANS IMPROVE COMFORT INSIDE MOSQUITO NETS IN SOUTHERN GHANA

Olivier J. Briet¹, Collins K. Ahorlu², Joshua O. Yukich³, Constanze Pfeiffer¹, William Miller⁴, Mulako S. Jaeger¹, Nitin Khanna¹, Samuel Oppong⁵, Peter Nardini⁴, Joseph A. Keating³

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DIHYDROARTEMISININ-PIPERAQUINE AS INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN A REFUGEE CAMP, ADJUMANI, UGANDA

Matthew E. Coldiron¹, Estrella Lasry², Céline Langendorf¹, Daniel Nyehangane³, Juliet Mwangi³, Malika Bouhenia¹, Debashish Das¹, Richard Mathela⁴, Leon Salumu², Greg Elder², Rebecca F. Grais¹

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LLINS ASSESSMENT OF HOUSEHOLD COVERAGE IN DEMOCRATIC REPUBLIC OF CONGO BETWEEN 2004 AND 2014

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ANOPHELES SUBPICTUS, A NEW DOMINANT MALARIA VECTOR IN AN URBAN AREA OF WESTERN INDIA

Ashwani Kumar¹, Praveen Balabaskaran Nina¹, Ajeet Mohanty¹, Rajeshwari Hosmani¹, Shivaji Jadhav¹, Satyajit Kale¹, Anjali Mascarenhas², Edwin Gomes², Neena Valecha³, Laura Chery⁴, Pradipsinh Rathod⁴

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COST-EFFECTIVENESS OF INSECTICIDE-TREATED WALL LINER AND INDOOR RESIDUAL SPRAYING TO PREVENT MALARIA IN KENYA AND TANZANIA

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1666

LAND COVER DETERMINANTS OF *PLASMODIUM FALCIPARUM* PREVALENCE IN URBAN AND PERI-URBAN AREAS OF NORTHERN BIOKO ISLAND

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Bacteriology - Enteric Infections

1667

ENTERIC PATHOGEN SURVEILLANCE IN CHILDREN AND ADULTS IN A CASE-CONTROL STUDY OF ACUTE DIARRHEA IN BATTAMBANG, CAMBODIA

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VIRULENCE PROFILE OF ENTEROTOXIGENIC *ESCHERICHIA COLI* (ETEC) STRAINS ISOLATED FROM PERUVIAN CHILDREN

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1669

VACCINATION FOR THE CONTROL OF TYPHOID FEVER: ESTIMATING THE POPULATION-LEVEL EFFECTS OF HISTORICAL TY21A FIELD TRIALS IN SANTIAGO, CHILE

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ESCHERICHIA COLI PATHOTYPES FROM ECUADOR: ASSOCIATION WITH DIARRHEA AND ANTIBIOTIC RESISTANCE

Lorena Patricia Montero¹, William Cevallos², Xavier Sánchez², Edison Puebla², Pablo Endara¹, Gabriel Trueba¹, Karen Levy³
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1671

QUALITATIVE MOLECULAR DIAGNOSTICS MAY IMPROVE MEDICAL MANAGEMENT OF HOSPITALIZED SEVERELY MALNOURISHED CHILDREN WITH DIARRHEA: PRELIMINARY ANALYSIS FROM HÔPITAL DE L'AMITIÉ IN N'DJAMENA, CHAD

Bruno Akpakpo, Ali Ouattara, Richard Kojan, Susan Shepherd
The Alliance for International Medical Action (ALIMA), Dakar, Senegal

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DRIED BLOOD SPOTS: AN ALTERNATE TOOL FOR THE ASSESSMENT OF IMMUNE RESPONSE TO CHOLERA INFECTION AND VACCINE

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1673

THE STUNTING SYNDROME DEVELOPS IN CHILDREN WITH INCREASED MICROBIAL TRANSLOCATION AND ATTENUATED EVOLUTION OF THE GUT MICROBIOME

Mara Zambruni¹, Natalia I. Vigo², Gonzalo J. Acosta², Maribel Riveros², Maitreyee Nigalye¹, Anoma Somasunderam¹, Nadim J. Ajami³, Miguel M. Cabada¹, Theresa J. Ochoa², Netanya S. Utay¹

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1674

ANTIMICROBIAL RESISTANCE PROFILE IN *ENTEROBACTERIAE* ISOLATED FROM CHILDREN UNDER-2-YEARS-OLD IN PERI-URBAN COMMUNITIES IN LIMA, PERU

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ENTEROAGGREGATIVE *ESCHERICHIA COLI* IS SYNERGISTIC WITH OTHER ENTERIC PATHOGENS TO IMPAIR GUT ABSORPTION, CAUSE INFLAMMATION AND IMPAIR GROWTH

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1676

DOUBLE JEOPARDY: CHOLERA OUTBREAKS IN PRISONS IN THE 21ST CENTURY

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1677

DISTRIBUTION OF *E. COLI* PATHOTYPES ALONG AN URBAN RURAL GRADIENT IN ECUADOR

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1678

EPIDEMIOLOGY AND RISK FACTORS FOR CRYPTOSPORIDIOSIS IN CHILDREN IN THE MAL-ED STUDY

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Bacteriology - Systemic Infections

1679

THE SPECTRUM OF *CHROMOBACTERIUM VIOLACEUM* INFECTIONS FROM A SINGLE GEOGRAPHIC LOCATION

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1680

TARGET PRODUCT PROFILE FOR A DIAGNOSTIC ASSAY TO DIFFERENTIATE BETWEEN BACTERIAL AND NON-BACTERIAL INFECTIONS TO GUIDE ANTIMICROBIALS USE IN RESOURCE-LIMITED SETTINGS: AN EXPERT CONSENSUS

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1681

INVASIVE NON-TYPHOIDAL *SALMONELLA* INFECTIONS IN ASIA: CLINICAL OBSERVATIONS, DISEASE OUTCOME AND DOMINANT SEROVARS FROM A TERTIARY REFERRAL HOSPITAL IN HO CHI MINH CITY, VIETNAM

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1682

COXIELLA BURNETII ANTIBODIES ARE PREDOMINANT AMONG PATIENTS WITH UNDIFFERENTIATED FEVER IN AFGHANISTAN

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DETECTION OF *SALMONELLA* BACTEREMIA IN RURAL KENYA USING FIELDABLE DIAGNOSTICS

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LEPTOSPIRAL DNA IN FEBRILE PATIENTS FROM SEMI-RURAL COMMUNITIES IN MANABÍ-ECUADOR

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Bacteriology - Trachoma

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PROGRESS AND CHALLENGES OF TRACHOMA ELIMINATION IN THE FAR NORTH REGION OF CAMEROON

Assumpta Lucienne Bella¹, Armelle Ngomba², Georges Nko'o Ayissi¹, Emilienne Epee¹, Julie Akame³, Patrick Mbia³, Henri MOUNGUI³, Yaobi Zhang⁴, Steven D. Reid⁵

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THE BURDEN OF TRACHOMA IN EASTERN EQUATORIA STATE, REPUBLIC OF SOUTH SUDAN

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IMPACT OF MASS TREATMENT WITH AZITHROMYCIN FOR TRACHOMA ON SEXUALLY TRANSMITTED INFECTIONS AND ANTIMICROBIAL RESISTANCE AMONGST WOMEN IN THE SOLOMON ISLANDS

Michael Marks¹, James Hadfield², Christian Bottomley¹, Hendrick Tome³, Richard Pitakaka³, Robert Butcher¹, Oliver Sokana³, Henry Kako³, Anthony W. Solomon¹, Nicholas Thomson², David C. Mabe¹

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1688

QUALITY ASSESSMENT OF THE IMPLEMENTATION OF THE TRACHOMATOUS TRICHIASIS SURGERY IN POLI HEALTH DISTRICT, CAMEROON USING SWPO METHOD (SUCCESS - WEAKNESSES - POTENTIALS - OBSTACLES)

Yannick Nkoumou¹, Assumpta Lucienne Bella², Georges Nko'ayissi², Godefroy Koki³, Emilienne Epee², Souleymanou Yaya², Julie Akame¹, Henri MOUNGUI¹, Yaobi Zhang⁴, Awa Dieng⁴, Whitney Goldman⁵

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FACTORS PREDICTING TRACHOMA IMPACT SURVEY OUTCOMES

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1690

CAN WE ELIMINATE TRACHOMA AS A PUBLIC HEALTH PROBLEM BY 2020?

Amy Pinsent, Manoj Gambhir

Monash University, Melbourne, Australia

1691**TRAINING OF MASS DRUG ADMINISTRATION (MDA) DISTRIBUTORS, COMMUNITY MOBILIZATION AND COMMUNITY KNOWLEDGE OF MDA: A QUALITATIVE POST-MDA ASSESSMENT AMHARA, ETHIOPIA****Eshetu Sata¹**, Aisha E. Stewart², Nicole Devereaux², Mulat Zerihun¹, Demelash Gessesse¹, Melsew Chanyalew³, Berhan Gaudie³, Zerihun Tadesse¹, E. Kelly Callahan², Scott D. Nash²¹The Carter Center-Ethiopia, Addis Ababa, Ethiopia, ²The Carter Center-Atlanta, Atlanta, GA, United States, ³Amhara Regional Health Bureau, BahirDar City, Ethiopia**Clinical Tropical Medicine****1692****MORTALITY FOLLOWING DISCHARGE IN CHILDREN ADMITTED TO A RURAL MOZAMBIKAN HOSPITAL: DEVELOPMENT OF A PREDICTION MODEL TO IDENTIFY CHILDREN AT RISK OF DEATH****Lola Madrid¹**, Antonio Siteo², Marta Aldea³, Rosauro Varo¹, Charfudin Sacoor², Helio Mucavele², Pedro Aide², Sozinho Acacio², Inacio Mandomando², Clara Menéndez¹, Betuel Sigauque², Quique Bassat¹¹ISGlobal, Barcelona Ctr. Int. Health Res. 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Nutman³, Louise Kelly-Hope⁴, Moses Bockarie⁴¹ICER-Mali, Bamako, Mali, ²National Lymphatic Filariasis Elimination Program, Bamako, Mali, ³Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁴Liverpool School of Tropical Medicine, Centre for Neglected Tropical Diseases, Liverpool, United Kingdom**1694****SCRUB TYPHUS AS A MAJOR CAUSE OF ILLNESS FOR PATIENTS WITH UNKNOWN FEVER ORIGIN IN GALLE, SRI LANKA****Chien-Chung Chao¹**, Zhiwen Zhang¹, Tatyana Belinskaya¹, Chris Wood², Bradley P. Nicholson², L. Gayani Tilekeratne², October M. Session³, Jeremy Hsiang², Michael Lewis¹, Megan Reller⁴, Champica K. Bodinayake⁵, Ajith Nagahawatte⁵, Vasantha Devasiri⁵, Wasantha Kodikara-Arachichi⁵, Aruna Dharshan de Silva⁵, Ruvini Kurukulasooriya⁵, Truls Ostbye², Duane J. Gubler³, Wei-Mei Ching¹¹Naval Medical Research Center, Silver Spring, MD, United States, ²Duke University, Durham, NC, United States, ³Duke-NUS Graduate Medical School, Singapore, Singapore, ⁴Johns Hopkins University, Baltimore, MD, United States, ⁵University of Ruhuna, Galle, Sri Lanka, ⁶Genentech, South San Francisco, CA, United States**1695****LEPTOSPIROSIS IS ONE OF THE MAJOR DISEASES FOR PATIENTS WITH UNKNOWN FEVER ORIGIN IN GALLE, SRI LANKA****Wei-Mei Ching¹**, Chris Woods², Bradley P. Nicholson², October M. Session³, Champica K. Bodinayake⁴, Aruna Dharshan de Silva⁵, Duane J. Gubler³¹Naval Medical Research Center, Silver Spring, MD, United States, ²Duke University, Durham, NC, United States, ³Duke-NUS Graduate Medical School, Singapore, Singapore, ⁴University of Ruhuna, Galle, Sri Lanka, ⁵Genentech, South San Francisco, CA, United States**1696****ANTIVENOM INDUCED ANAPHYLAXIS FOR TREATING NEUROTOXIC SNAKE ENVENOMATION IN NEPAL****Sanjib Sharma¹**, Emilie Alirol², Anup Ghimire¹, Basant Sharma³, Bishal Gautam⁴, Pooja Thapa³, Deekshya Shrestha⁴, Rupesh Jha⁴, Surya Shrestha⁴, Surya Parajuli⁵, Sitaram Parajuli⁵, David Warrell⁶, Francois Chappuis², **Walter Taylor⁷**¹B.P. Koirala Institute of Health Sciences, Dharan, Nepal, ²Service de Médecine Internationale et Humanitaire, HUG, Geneva, Switzerland, ³Snake Bite Treatment Centre of the Damak Red Cross, Damak, Nepal, ⁴Bharatpur Hospital, Bharatpur, Nepal, ⁵Snake Bite Management Centre of Charali, Charali, Nepal, ⁶Oxford University, Oxford, United Kingdom, ⁷MORU, Bangkok, Thailand**1697****LUNG NODULES IN CHRONIC SCHISTOSOMIASIS: A RARE CONDITION?****Federico Giovanni Gobbi¹**, Dora Buonfrate¹, Andrea Angheben¹, Anna Beltrame¹, Matteo Bassetti², Luca Bertolaccini¹, Giuseppe Bogina¹, Simone Caia¹, Silvia Duranti², Maria Gobbo¹, Valentina Marchese¹, Stefania Marocco¹, Maria Merelli², Geraldo Monteiro¹, Alberto Terzi¹, Zeno Bisoffi¹¹Sacro Cuore Don Calabria Hospital, Negrar, Italy, ²University Hospital "Santa Maria della Misericordia", Udine, Italy**1698****WEIGHT-FOR-AGE GROWTH-RATE FAILURE IN INFANTS IS ASSOCIATED WITH AN ALTERED BLOOD GENE EXPRESSION PROFILE INDICATING REDUCED IMMUNE RESPONSIVENESS****Sean A. Diehl¹**, Julie A. Dragon², Nelson Vila-Santana³, Jessica Hoffman³, Timothy Hunter³, Dorothy M. Dickson¹, Barry A. Finette⁴, E. Ross Colgate¹, Uma Nayak⁵, Rashidul Haque⁶, William A. Petri, Jr.⁵, Beth D. Kirkpatrick¹¹Department of Medicine-Infectious Diseases and Vaccine Testing Center, University of Vermont, Burlington, VT, United States, ²Microbiology and Molecular Genetics Department and Molecular Biology Shared Resource, University of Vermont, Burlington, VT, United States, ³Advanced Genome Technologies Center, University of Vermont, Burlington, VT, United States, ⁴Department of Pediatrics, University of Vermont, Burlington, VT, United States, ⁵Division of Infectious Diseases and International Health, University of Virginia, Charlottesville, VA, United States, ⁶International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh**1699****MATERNAL IRON DEFICIENCY ANEMIA, MALARIA AND SOIL TRANSMITTED HELMINTHS ARE A MAJOR RISK FACTOR FOR ANEMIA IN EARLY CHILDHOOD****Indu Malhotra¹**, Mary A. Uyoga², Daniel J. Tisch¹, Arlene E. Dent¹, Penny A. Holding³, Christopher L. King¹¹Case Western Reserve University, Cleveland, OH, United States, ²International Center for Behavior Studies, Mombasa, Kenya, ³Aga Khan University Hospital, Nairobi, Kenya**1700****MAPPING AND MANAGEMENT OF A LARGE SCALE DROUGHT-ASSOCIATED SCABIES OUTBREAK IN ETHIOPIA****Wendemageegn E. Yeshaneh¹**, Ashenafie Ayalew²¹Bahirdar University, Bahirdar, Ethiopia, ²Amhara Regional Health Bureau, Bahirdar, Ethiopia**1701****PROGNOSTIC CLINICAL INDICATORS FOR FATAL DENGUE IN TWO ENDEMIC AREAS OF COLOMBIA: A HOSPITAL-BASED CASE CONTROL STUDY****Elsa Marina Rojas¹**, Luis Angel Villar¹, Victor Mauricio Herrera¹, Maria Consuelo Miranda¹, Diana Patricia Rojas², Adriana Margarita Gomez¹, Cristian Pallares³, Sara Maria Cobos³, Lizeth Pardo⁴, Margarita Gélvez¹, Luz Aida Rey¹, Francisco Javier Díaz⁵, Andres Paez⁴, Julio Cesar Mantilla⁶, Edgar Parra⁷¹Centro de Investigaciones Epidemiológicas, Universidad Industrial de Santander, Bucaramanga, Colombia-Red AEDES: Abordando el Dengue y otras Arbovirosis en áreas endémicas para disminuir su impacto en la sociedad, Bucaramanga, Colombia, ²Center for Statistics and Quantitative Infectious Diseases, University of Florida, Gainesville, United States-Red AEDES: Abordando el Dengue y otras Arbovirosis en

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1702

AN EVALUATION OF MOLECULAR DIAGNOSTIC TOOLS FOR TRAVELERS' DIARRHEA: THE HOSPITAL FOR TROPICAL DISEASES EXPERIENCE

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1703

RAPID, AUTOMATED EXTRACTION AND PURIFICATION OF NUCLEIC ACIDS FROM PATHOGENS DIRECTLY FROM WHOLE BLOOD SAMPLES

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1704

PREVENTING MYCOBACTERIUM *LEPRAE* - ASSOCIATED DISABILITY: IDENTIFYING SOCIAL AND CLINICAL FACTORS ASSOCIATED WITH NERVE DAMAGE IN AN ENDEMIC AREA OF BRAZIL

Juan D. Cisneros¹, Jose A. Ferreira², Thelma de Filippis², Ana Laura Grossi de Oliveira³, Maria Aparecida de Faria Grossi², Laura Pinheiro Chaves², Paola Souza dos Santos², Luiza Navarro Caldeira², Rafaella Rodrigues Costa², Maria Cavallieri Diniz², Carolina Suares Duarte², Sandra Lyon², Jessica K. Fairley⁴
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1705

NODDING SYNDROME/EPILEPSY IN THE SANAGA RIVER BASIN (CAMEROON): AN UNNOTICED EPIDEMIC?

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1706

HELMINTHS AND UNDERNUTRITION: FACILITATORS OF MYCOBACTERIUM *LEPRAE* MORBIDITY OR INNOCENT BYSTANDERS?

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1707

CHITOSAN MICROPARTICLES TO DNA DETECTION IN URINE SAMPLES

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1708

ASSESSING POSSIBLE EXPOSURE TO ZIKA VIRUS IN A HOSPITAL POPULATION THROUGH A TRAVEL SCREENING QUESTION

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PODOCONIOSIS: GENETIC PREDISPOSITION NORTHERN PROVINCE, RWANDA, AFRICA

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Imidido Project, Musanze, Rwanda

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SYMPTOMS AND CLINICAL CORRELATES AS A PREDICTIVE MARKER FOR THE OUTCOMES IN TROPICAL FEVER: A TWO YEAR RETROSPECTIVE STUDY FROM CENTRAL INDIA

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COMPREHENSIVE CARE OF CHAGAS DISEASE IN A NON-ENDEMIC COUNTRY: THE EXAMPLE OF SPAIN

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1712**IMPACT OF MICRONUTRIENT SUPPLEMENTATION COMBINED WITH MALARIA CHEMOPREVENTION ON MALARIA, ANAEMIA AND COGNITIVE DEVELOPMENT IN EARLY CHILDHOOD: FINDINGS FROM A CLUSTER RANDOMIZED STUDY IN SOUTHERN MALI**

Sian E. Clarke¹, Natalie Roschnik², Moussa Sacko³, Niele Hawa Diarra⁴, Philippe Thera⁴, Seybou Diarra⁴, Yahia Dicko⁴, Renion Saye³, Hans Verhoef¹, Kalifa Sidibe⁴, Modibo Bamadio⁴, Sham Lal¹, Rebecca Jones⁵, Yvonne Griffiths⁶, Lauren Pisani⁷, Michael Boivin⁸, Fatoumata Dougnon⁹, Mouctar Coulibaly⁹, Bore Saran Diakite⁹, Bonaventure Maiga¹⁰

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1713**A COHORT STUDY TO ESTIMATE THE RISK MERS-COV POSES TO TRAVELERS TO THE MIDDLE EAST**

Brian L. Pike¹, Li-Yen Chang², Norhayati Rusli³, Jefree Johari², Chee-Sieng Khor², Siti-Sarah Nor'e², Jose A. Garcia-Rivera⁴, Lokman-Hakim Sulaiman³, Sazaly Abubakar²

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1714**ROTAVIRUS AMONG MEDICALLY-ATTENDED CHILDREN YOUNGER THAN FIVE YEARS OF AGE WITH AND WITHOUT DIARRHEA IN LIMA, PERU FOLLOWING UNIVERSAL ROTAVIRUS VACCINE IMPLEMENTATION**

Giuliana Oyola Lozada¹, Sarah-Blythe Ballard², Mayra Ochoa-Porras¹, Gerardo Sanchez-Garcia¹, Fabiola Colquechagua-Aliaga³, Roxana Zamudio-Zeaa¹, Caryn Bern⁴, Mayuko Saito⁵, Dante Figueroa-Quintanilla³, Robert Gilman⁶, Holger Mayta¹

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1715**PREVALENCE AND ASSOCIATED RISK FACTORS OF DIABETES, CHRONIC KIDNEY DISEASE, HYPERTENSION AND OBESITY IN THE PERUVIAN AMAZON: THE AMARAKAERI RESERVE COHORT STUDY**

Anthony Saxton¹, John Stanifer¹, Jaime Miranda², Ernesto Ortiz¹, **William Pan**¹

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1716**DEVELOPMENT AND PRELIMINARY CLINICAL EVALUATION OF A MOBILE TECHNOLOGY FOR DIARRHEAL DISEASE OUTBREAK MANAGEMENT**

Eric J. Nelson¹, Farhana Haque², Robyn Ball¹, Stacey Maples¹, Selina Khatun², Mujadeed Ahmed², M.Waliur Rahman², Saraswati Kache¹, Md. Jobayer Chisti², Shafiqul Alam Sarker³, Gary Schoolnik¹, Mahmudur Rahman²

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1717**DIFFERENTIAL CLINICAL AND LABORATORY CHARACTERISTICS AMONG ADULT DENGUE PATIENTS WITH DIABETES**

Junxiang Vincent Pang, Yee Sin Leo, David C Lye, Tsin Wen Yeo
Tan Tock Seng Hospital, Singapore, Singapore

Helminths - Nematodes - Intestinal Nematodes**1718****ANTHELMINTHIC SCREENING FOR PARASITIC NEMATODES**

Mostafa A. Elfawal¹, Dan Lawler², Dirk Albrecht², Raffi Aroian¹

¹Program in Molecular Medicine, University of Massachusetts Medical School, Worcester, MA, United States, ²Quantitative Neurology Lab, Worcester Polytechnic Institute, Worcester, MA, United States

1719**WHAT'S IN A NATIONAL PLAN OF ACTION? EVALUATING PROGRESS TOWARD GLOBAL CONTROL OF SOIL-TRANSMITTED HELMINTHIASES**

Lauren Abrams, Jedidiah Snyder, Alexander Jones, David Addiss
Task Force for Global Health, Decatur, GA, United States

1720**PREVALENCE OF MALARIA, GEOHELMINTHS AND ANAEMIA AMONG SCHOOL CHILDREN IN MUHEZA DISTRICT**

Billy Ngasala¹, Lwitakubi F. Matata¹, Ahmed M. Abade², Patrick Tungu²

¹Muhimbili University of Health and Allied Science, Dar es Salaam, United Republic of Tanzania, ²National Institute of Medical Research, Muheza, United Republic of Tanzania

1721**CRYSTAL PROTEIN CRY5B AS A NOVEL AND POWERFUL ANTHELMINTIC**

Yan Hu, David Koch, Zeynep Mirza, Thanh-thanh Thanh, Gary Ostroff, Raffi Aroian

University of Massachusetts Medical School, Worcester, MA, United States

(ACMCIP Abstract)**1722****PLANT DERIVED COMPOUNDS AS 'RESISTANCE-BUSTING' ANTHELMINTIC DRUG**

Zeynep Mirza, Yan Hu, David Koch, Thanh-thanh Nguyen, Raffi Aroian, Gary Ostroff

University of Massachusetts Medical School, Worcester, MA, United States

1723**INVESTIGATING THE DIFFERENTIAL IMPACT OF SCHOOL AND COMMUNITY-BASED INTEGRATED CONTROL PROGRAMS FOR SOIL-TRANSMITTED HELMINTHS IN TIMOR-LESTE: THE (S)WASH FOR WORMS PILOT STUDY**

Naomi E. Clarke¹, Archie C. Clements¹, Rebecca Traub², James McCarthy³, Darren Gray¹, Susana V. Nery¹

¹Australian National University, Canberra, Australia, ²University of Melbourne, Parkville, Australia, ³QIMR Berghofer Medical Research Institute, Brisbane, Australia

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IS THERE EVIDENCE THAT THE SEASONAL TIMING OF MASS DE-WORMING FOR ASCARIS IS IMPORTANT?

Emma L. Davis¹, Deirdre Hollingsworth¹, Leon Danon², Sharmini Gunawardena³
¹University of Warwick, Warwickshire, United Kingdom, ²University of Bristol, Bristol, United Kingdom, ³University of Colombo, Colombo, Sri Lanka

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SPONTANEOUS SEDIMENTATION IN TUBE TECHNIQUE IS AS SENSITIVE AS KATO-KATZ FOR THE DIAGNOSIS OF SOIL-TRANSMITTED HELMINTHS AND SUPERIOR FOR THE DETECTION OF *STRONGYLOIDES STERCORALIS*: A COMMUNITY-BASED STUDY IN THE AMAZON BASIN OF PERU

George Vasquez-Rios¹, Renato A. Errea¹, Diego Siu¹, Rodrigo Gallegos², Rossana Rondon², Kevin Duque², María L. Calderón², Katia Baca², Josefina Fabian², Luciana H. Juárez³, Celene Uriol³, Marco Canales¹, Angelica Terashima¹, Jorge D. Machicado⁴, Luis A. Marcos⁵, Frine Samalvides¹

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POTENTIAL IMMUNOLOGICAL MARKERS FOR DIAGNOSIS OF HUMAN STRONGYLOIDIASIS USING HETEROLOGOUS ANTIGENS

Ronaldo Gryschek¹, Marcelo Corral¹, Fabiana Paula², Dirce Meisel², Vera Castilho², Elenice Goncalves², Debora Levy², Sergio Bydlowski¹, Pedro Paulo Chieffi³, William Castro-Borges⁴

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THE EFFECT OF MATERNAL POSTPARTUM DEWORMING ON INFECTION STATUS, ANEMIA AND FATIGUE

Layla S. Mofid¹, Martín Casapía², Antonio Montresor³, Elham Rahme⁴, Brittany Blouin¹, Hugo Razuri⁴, Lidsky Pezo², Theresa W. Gyorkos¹

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SYSTEMATIC REVIEW AND META-ANALYSIS OF SOIL-TRANSMITTED HELMINTH TREATMENT EFFICACY STUDIES AND THE CASE FOR SHARING INDIVIDUAL PATIENT DATA

Julia B. Halder¹, Amélie M. Julé², Michel Vaillant³, Maria-Gloria Basáñez¹, Piero L. Olliaro⁴, Martin Walker¹

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USING TRANSMISSION MODELS IN STUDY DESIGN: DETECTING ELIMINATION AND THE IMPACT OF PRE-EXISTING TREATMENT PROGRAMS

James Truscott, Sam Farrell, Roy Anderson
Imperial College London, London, United Kingdom

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Ryan H. Avery¹, Simone S. Oliveira², Aristeu V. da Silva², Rojelio Mejia³, Marta M. Silva⁴, Rebecca C. Christofferson¹, Laura Rinaldi⁵, John B. Malone¹

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Blaise Dondji¹, Kaitlin L. Deardorff¹, Kiah N. Jones¹, Brianda Cardenas-Garcia¹, Lindsey Engels¹, Shannon Fulkerson¹, Cassie Ripley¹, Haley Wolhart², Nicholas Hansen², Gil Belofsky²

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A COMPARATIVE ANALYSIS OF STOOL PRESERVATION TECHNIQUES FOR THE MOLECULAR DETECTION OF SOIL TRANSMITTED HELMINTHS

Nils Pilonne¹, Marina Papaikovou¹, Jessica R. Grant¹, Yan Hu², David Koch², Alastair Matheson³, Kristjana Asbjornsdottir³, Raffi V. Aroian², Judd L. Walson³, Steven A. Williams¹

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COST ASSESSMENT OF FIVE PARASITOLOGICAL TECHNIQUES FOR THE DIAGNOSIS OF *STRONGYLOIDES STERCORALIS*: EVALUATION IN A HIGHLY ENDEMIC REGION

Renato A. Errea¹, George Vasquez-Rios², Marco Canales², Luciana H. Juarez³, Maria L. Calderon⁴, Claudia R. Rondon⁴, Katia P. Baca⁴, Celene Uriol³, Rosario J. Fabian⁴, Rodrigo Gallegos⁴, Diego Siu², Kevin R. Duque⁵, Angelica Terashima², Jorge D. Machicado⁶, Luis A. Marcos⁷, Frine Samalvides⁸

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PREDICTING INFECTION DISTRIBUTION AND BURDEN OF DISEASE USING SPATIOTEMPORAL MODELS FOLLOWING A SEVEN YEAR MASS DRUG ADMINISTRATION PROGRAM AND LONGITUDINAL STUDY IN BURUNDI: 2008 - 2014

Mohamad Assoum¹, Ricardo S. Magalhaes¹, Giuseppina Ortu², Colleen Lau¹, Archie Clements³, Maria-Gloria Basanez⁴, Kate Halton⁵

¹The University of Queensland, Brisbane, Australia, ²Malaria Consortium, London, United Kingdom, ³Australian National University, Canberra, Australia, ⁴Imperial College London, London, United Kingdom, ⁵Queensland University of Technology, Brisbane, Australia

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PSYCHOSOCIAL ADJUSTMENT IN PERINATALLY HUMAN IMMUNODEFICIENCY VIRUS INFECTED OR EXPOSED CHILDREN

Amara E. Ezeamama¹, Florence N. Kizza¹, Sarah K. Zalwango², Allan K. Nkwata¹, Juliet N. Sekandi¹, Robert KaKaire¹, Noah Kiwanukah³, Christopher C. Whalen¹
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PERCEPTION OF HUMAN IMMUNODEFICIENCY VIRUS SCREENING AMONG PASSERSBY ALONG A STREET CONNECTING THE EAST AND WEST GATES OF THE ADVENTIST UNIVERSITY AT CARREFOUR, HAITI, AUGUST 2ND 5TH, 2015

Miracle Destine Apollon
 FETP, Port au Prince, Haiti

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PREVALENCE OF CERVICAL CANCER (CC) SCREENING AND THE ROLE OF KNOWLEDGE OF CC RISK AND SCREENING GUIDELINES FOR WOMEN LIVING WITH HIV IN LIMA, PERU

Jeanne R. Delgado¹, Luis Menacho², Eddy Segura³, Fernando Roman², Robinson Cabello²
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HIV/NCD INTEGRATED CARE: A LITERATURE REVIEW

Jessica Wilkinson, Michael Smalky, Benjamin Kasdan
 United States Agency for International Development, Washington, DC, United States

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HIV CO-INFECTION WITH *PLASMODIUM VIVAX* MALARIA AND OTHER TROPICAL INFECTIOUS DISEASES IN THE PERUVIAN AMAZON

Deanna R. Zhu¹, Viviana V. Pinedo-Cancino², Katty M. Arista-Flores², Maria E. Vásquez-Ch², Rafael J. Saavedra-Langer², Stephanie Montero¹, Lastenia Ruiz-Mesia³, Martin Casapia⁴, Cesar Ramal-Asayag⁵, Andres G. Lescano¹
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PRESENTATION, ETIOLOGY, AND OUTCOME OF FEBRILE INDIAN PATIENTS DIFFERS BY HIV STATUS

Dileep Kadam¹, **Matthew L. Robinson**², Ivan Marbaniang³, Anju Kagal¹, Renu Bharadwaj¹, Priyanka Raichur³, Savita Kanade³, Jonathan Sachs⁴, Nikhil Gupte⁵, Amita Gupta², Vidya Mave²
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CONDOMLESS INSERTIVE ANAL SEX AND GENDER IDENTITY AMONG MEN WHO HAVE SEX WITH MEN IN TOGO

Horacio Ruisenor¹, Ashley Grosso², Sosthenes Ketende², Anato Simplicé³, Vincent Pitche⁴, Jules Tchalla⁵, Dometo Sodji⁶, Stefan Baral²
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COMPARISON OF ASYMPTOMATIC AND CLINICAL MALARIA FREQUENCIES BETWEEN HIV POSITIVE AND HIV NEGATIVE INDIVIDUALS LIVING IN GABON

Marielle K. Bouyou-Akotet¹, Jeanne V. Koumba Lengongo¹, Denise P. Mawili Mboumba¹, Magloire Ondounda², Eric Kendjo¹, Madeleine Okome Nkoumou¹
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LEVERING HIV DIAGNOSTIC AND CARE INFRASTRUCTURE IN RWANDA TO ACCELERATE THE ROLL-OUT OF NEW PEDIATRIC TB TREATMENT FORMULATIONS

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SEXUALLY TRANSMISSIBLE INFECTIONS (STI'S) AMONG HIV CLIENTS ATTENDING AN URBAN UGANDAN HIV CLINIC

Peterson Stephen Kyebambe, Christine Namala
 Naguru Regional Hospital, Kampala, Uganda

Kinetoplastida - Cellular and Molecular Biology (Including *Leishmania* and Trypanosomes)

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TRYPANOSOMA CRUZI INHIBITION OF SIRT1/PGC1 ACTIVITY CONTRIBUTES TO ANTIOXIDANT/OXIDANT IMBALANCE BUT NOT TO MITOCHONDRIAL BIOGENIC DEFECTS: BENEFITS OF SIRT1-TARGETED THERAPY IN CHAGAS DISEASE

Xianxiu Wan, Jian-jun Wen, Sue-Jie Koo
 The University of Texas Medical Branch, Galveston, TX, United States

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THE *LEISHMANIA* METAPHYLOME: A COMPREHENSIVE SURVEY OF *LEISHMANIA* PROTEIN PHYLOGENETIC RELATIONSHIPS

Hugo Oswaldo Valdivia¹, Larissa L. Scholte², Guilherme Oliveira², Toni Gabaldón³, Daniella C. Bartholomeu¹
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(ACMCIP Abstract)

1747**POLYMORPHISMS IN CASPASE-1 ARE ASSOCIATED WITH CHAGAS CARDIOMYOPATHY IN SANTA CRUZ, BOLIVIA**

Katherine Fu¹, Roxana Zamudio², Jo Henderson-Frost³, Alex Almuedo⁴, Hannah Steinberg⁵, Stephen Clipman⁶, Gustavo Duran⁶, Rachel Marcus⁷, Thomas Crawford⁸, Daniel Alyeshmerni⁹, Rony Colanzi⁹, Jorge Flores⁶, Robert Gilman⁵, Caryn Bern¹⁰, Chagas Disease Working Group in Bolivia and Peru

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1748**ARTEMISININ DIMERS AS PROMISING NEW DRUG LEADS FOR VISCERAL LEISHMANIASIS**

Surendra K. Jain¹, Waseem Gul², Mahmoud A. Elsohly², Babu L. Tekwani¹

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(ACMCIP Abstract)

1749**IDENTIFICATION AND CHARACTERIZATION OF "YINP", A NOVEL GENE INVOLVED IN LEISHMANIA PATHOGENESIS. A POTENTIAL NEW TARGET FOR DRUG DISCOVERY**

Miriam Algarabel Olona¹, Celia Fernandez-Rubio¹, Andres Vacas Oleas¹, Esther Larrea², Carmen Sanmartin³, Socorro Espuelas⁴, **Paul Nguewa**¹

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(ACMCIP Abstract)

1750**PROTEOMIC ANALYSIS OF PLASMA-DERIVED EXTRACELLULAR VESICLES IN NATURAL INFECTIONS OF PLASMODIUM VIVAX, TRYPANOSOMA CRUZI AND FASCIOLA HEPATICA**

Joan Seguí Barber¹, Alicia Galiano², Isabel Diaz³, Emanuella Fajardo⁴, Antonio Marcilla⁵, Igor C. Almeida⁴, Antonio Osuna³, Hernando A. del Portillo⁶

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(ACMCIP Abstract)

1751**IDENTIFICATION OF NOVEL INHIBITORS OF LEISHMANIA INITIATION FACTOR 4A AND ASSESSMENT OF THEIR BIOLOGICAL EFFECTS ON PARASITE GROWTH**

Emna Harigua-Souiai¹, Yosser Zina Abdelkrim¹, Imen Bassouïi¹, Ons Zakraoui¹, Khadija Essafi-Benkhadir¹, Michael Nilges², Arnaud Blondel², Ikram Guizani¹

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1752**GENOTYPING OF PANAMANIAN TRYPANOSOMA CRUZI STOCKS USING A MAXICIRCLE MULTILOCUS SEQUENCE TYPING APPROACH**

Jose E. Calzada¹, Azael Saldaña¹, Prasad Padmanabhan², Corina de Juncá³, Franklyn Samudio¹, Barbara A. Burleigh²

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(ACMCIP Abstract)

1753**EVALUATION OF RHOB GENE SILENCING MEDIATED BY SHRNA ON INFECTION PHENOTYPE OF U937 CELL DERIVED MACROPHAGES INFECTED WITH LEISHMANIA (VIANNIA) BRAZILIENSIS**

Clemencia Ovalle, Diana Londoño-Barbosa, Carlos Franco-Muñoz
Centro Dermatológico Federico Lleras Acosta, Bogotá, Colombia

(ACMCIP Abstract)

1754**TRANSCRIPTIONAL PROFILE OF HUMAN WHOLE BLOOD CELLS STIMULATED WITH SOLUBLE LEISHMANIA ANTIGENS**

Leonardo C. Ferreira, João F. Neto, Selma M. Jeronimo
Federal University of Rio Grande do Norte, Natal, Brazil

1755**BACTERIAL CO-INFECTION IN MURINE CUTANEOUS LEISHMANIASIS**

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(ACMCIP Abstract)

1756**PHYLOGENETIC ANALYSIS OF RNA OF CRIMEAN-CONGO HEMORRHAGIC FEVER AND WEST NILE FEVER SELECTED IN KAZAKHSTAN**

Yerlan Sansyzbayev¹, P. N. Deryabin¹, T. I. Nurmakhanov¹, V. E. Berezin², A. Shevtsov¹, A. N. Vilkovala¹, B. B. Atshabar¹, O. U. Yeskhodzhaev¹, R. Sailaubekuly¹, T. Z. Ayazbayev¹, M. V. Kulyomin¹, A. V. Andryuschenko¹, F. G. Bidashko¹, V. A. Tanitovskiy¹, A. V. Parfenov¹, L. B. Belonozhkina¹, L. M. Atovulaeva¹

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(ACMCIP Abstract)

Kinetoplastida - Immunology (Including Leishmania and Trypanosomes)

1757**ANTI-LEISHMANIA DONOVANI ANTIBODIES ENHANCE PROMASTIGOTES INTERNALIZATION INTO HOST MACROPHAGE**

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¹Tropical Medicine Research Institute, National Centre for Research, Khartoum, Sudan, ²Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan

(ACMCIP Abstract)

1758**THE ROLE OF IL-10 AND IFN- γ IN VIRULENCE OF DERMOTROPIC *LEISHMANIA DONOVANI* IN SRI LANKA****Udeshika L. Kariyawasam**¹, Yamuna D. Siriwardena¹, Anuradha Dube², Hira L. Nakhasi³, Nadira D. Karunaweera¹¹Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, ²Central Drug Research Institute, Lucknow, India, ³Division of Emerging and Transfusion Transmitted Diseases, Food and Drug Administration, Bethesda, MD, United States**(ACMCIP Abstract)****1759****CUTANEOUS LEISHMANIASIS DUE TO *LEISHMANIA DONOVANI*: ROLE OF IL-4 AND IFN-GAMMA IN LESION HEALING****Nuwani H. Manamperi**¹, Steve Oghumu², Nishantha Pathirana³, Deepani Munidasa⁴, Vijani Somaratne⁵, Vipula C. de Silva⁶, Arunasalam Pathmeswaran¹, Wimaladharm Abeyewickreme¹, Abhay R. Satoskar², Nadira D. Karunaweera⁶¹University of Kelaniya, Ragama, Sri Lanka, ²Ohio State University, Columbus, OH, United States, ³Sri Lanka Army Medical Services, Colombo, Sri Lanka, ⁴District General Hospital, Polonnaruwa, Sri Lanka, ⁵District General Hospital, Hambantota, Sri Lanka, ⁶University of Colombo, Colombo, Sri Lanka**(ACMCIP Abstract)****1760****OXYGEN METABOLISM REGULATES MACROPHAGE SUSCEPTIBILITY TO *TRYPANOSOMA CRUZI*****Sue-Jie Koo**, Bartosz Szczesny, Imran Chowdhury, Nisha J. Garg
University of Texas Medical Branch, Galveston, TX, United States**(ACMCIP Abstract)****1761****MACROPHAGE CELLULAR IMMUNE RESPONSES IN CUTANEOUS LEISHMANIASIS AGAINST *LEISHMANIA DONOVANI*****Hiruni D. Wijesooriya**¹, Nilakshi Samaranyake¹, Vijani Somaratne², Nadira Karunaweera¹¹Faculty of Medicine, Colombo, Sri Lanka, ²District General Hospital, Hambantota, Sri Lanka**(ACMCIP Abstract)****1762****IDENTIFICATION OF MICRORNA-21 AS A BIOMARKER IN LIVE ATTENUATED *LEISHMANIA VACCINE* INDUCED PROTECTIVE IMMUNITY****Parna Bhattacharya**, Nevien Ismail, Amit Kaul, Sreenivas Gannavaram, Hira L. Nakhasi

Food and Drug Administration, Silver Spring, MD, United States

(ACMCIP Abstract)**1763****CTLA-4 AND ICOS COSTIMULATORS: POSSIBLE ROLE DURING ACTIVE VISCERAL LEISHMANIASIS****João Firmino Rodrigues-Neto**¹, Selma Maria Bezerra Jerônimo²¹Multicampi School of Medical Sciences of the Rio Grande do Norte, Caico; Institute of Tropical Medicine, UFRN, Natal, Brazil, ²Department of Biochemistry; Institute of Tropical Medicine, UFRN, Natal, Brazil**(ACMCIP Abstract)****1764****BIOMARKERS OF PROTECTIVE IMMUNITY INDUCED BY LIVE ATTENUATED *LEISHMANIA DONOVANI* PARASITES IN PRESENCE OF ASYMPTOMATIC INFECTION****Nevien Ismail**, Amit Kaul, Parna Bhattacharya, Sreenivas Gannavaram, Hira Nakhasi

U.S. Food and Drug Administration, Silver Spring, MD, United States

(ACMCIP Abstract)**1765****B-CELL ACTIVATING FACTOR (BAFF) IS INVOLVED IN DEVELOPMENT OF SPLENOMEGALY DURING EXPERIMENTAL VISCERAL LEISHMANIASIS****Satoko Omachi**, Wataru Fujii, Chizu Sanjoba, Yoshitsugu Matsumoto, Yasuyuki Goto

The University of Tokyo, Tokyo, Japan

1766**DETECTION OF A FLAGELLAR ANTIGEN OF *TRYPANOSOMA CRUZI* IN URINE OF PATIENTS WITH HIV/CHAGAS CO-INFECTION USING NANOPARTICLES****Elizabeth Sofia Astupina Figueroa**¹, Holger Mayta¹, Remo Gonza¹, Alessandra Romero¹, Yagahira Castro², Robert Gilman², Alessandra Luchini³, Lance Liotta³, Working Group on Chagas Disease Bolivia and Peru¹Cayetano Heredia University, Lima, Peru, ²Department of International Health, Johns Hopkins University, Baltimore, MD, United States, ³Center for Applied Proteomics and Molecular Medicine, George Mason University, Manassas, VA, United States**(ACMCIP Abstract)****Pneumonia, Respiratory Infections and Tuberculosis****1767****IMPROVING ACCESS TO ESSENTIAL OXYGEN THERAPY AND PULSE OXIMETRY FOR CHILDREN****Gwen Ambler**¹, Jaclyn Delarosa¹, Grace Wu², Michael Ruffo¹, Lisa Smith¹, Bonnie Keith¹, Darin Zehrung¹¹PATH, Seattle, WA, United States, ²Boston University, Boston, MA, United States**1768****DRUG RESISTANCE AND MOLECULAR CHARACTERIZATION OF *M. TUBERCULOSIS* ISOLATED FROM PULMONARY TUBERCULOSIS SUDANESE PATIENTS****Mohamed S. Karamalla**

National University - Sudan, Khartoum, Sudan

1769**THE USEFULNESS OF OXIMETRY IN TRIAGING FEBRILE CHILDREN AT OUTPATIENT LEVEL: EXPERIENCE FROM A CLINICAL TRIAL IN DAR ES SALAAM, TANZANIA****Kristina Keitel**¹, Frank Kagoro², John Masimba², Josephine Samaka², Zamzam Said², Hosiana Temba², Willy Sangu², Blaise Genton³, Valérie D'Acremont⁴¹Swiss Tropical and Public Health Institute/Boston Children's Hospital, Basel, Switzerland, ²Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, ³Swiss Tropical and Public Health Institute/University Hospital Lausanne, Basel, Switzerland, ⁴Swiss Tropical and Public Health Institute/Policlinique Universitaire Médicale Lausanne, Basel, Switzerland

1770

EARLY TREATMENT OUTCOMES FOR THE FIRST COHORT OF PATIENTS INITIATED ON PULMONARY MULTI-DRUG RESISTANT TUBERCULOSIS TREATMENT AT PUBLIC REGIONAL REFERRAL HOSPITALS IN UGANDA

Martin Mbonye¹, Augustin Muhwezi¹, John-Paul Otuba¹, Christopher Wandera¹, Hilary Alima¹, Gladys Tugume¹, Beth Turesson², Tisna Veldhuijzen Van Zanten²
¹University Research Co., LLC, Kampala, Uganda, ²University Research Co., LLC, Washington, DC, United States

1771

EVALUATION OF VITAMIN D LEVELS AND PREVALENT TB AMONG HIV INFECTED IN ZAMBIA

German Henostroza¹, Amanda L. Willig¹, Muyunda Siyambango², Jorge M. Rodriguez¹, Stewart Reid¹, Douglas C. Heimbürger³, Jose R. fernandez¹
¹University of Alabama at Birmingham, Birmingham, AL, United States, ²Centre for Infectious Disease Research in Zambia, Lusaka, Zambia, ³Vanderbilt University, Vanderbilt, TN, United States

1772

IGG ANTIBODY SECRETION IN LYMPHOCYTE SUPERNATANT AMONG PAKISTANI CHILDREN WITH CONFIRMED TUBERCULOSIS

Najeeha Talat¹, Farah Qamar¹, Kumail Ahmed¹, Shazia Sultana¹, Farzeen Hirani¹, Aisha Mehnaz², Fehmina Arif², Tania Thomas³
¹Aga Khan University, Karachi, Pakistan, ²Civil Hospital Karachi, Karachi, Pakistan, ³University of Virginia, Charlottesville, VA, United States

1773

CHARACTERIZATION OF AN ALGORITHM FOR LOCAL SEASONAL INFECTIOUS DISEASE OUTBREAK DETECTION USING A SIMULATION STUDY

Alexandria C. Brown, Stephen A. Lauer, Nicholas G. Reich
University of Massachusetts Amherst, Amherst, MA, United States

1774

A GLOBAL FRAMEWORK FOR STRATEGIC TUBERCULOSIS PREVENTION AND CONTROL IN THE WORKPLACE

Mary C. Simmons¹, Amanda Brown Marusiak², Nancy C. Wojcik³, Susan Ngunjiri⁴, Malick Diara¹
¹Exxon Mobil Corporation, Spring, TX, United States, ²Airswift, Houston, TX, United States, ³ExxonMobil Biomedical Sciences, Inc., Annadale, NJ, United States, ⁴Fircroft, Houston, TX, United States

1775

DECIPHERING LONG TERM DYNAMICS AND ASSESSING IMMUNIZATION CAMPAIGNS OF MEASLES IN CHINA

Sheng Li¹, Chao Ma², Lizin Hao³, Lisa Cairns⁴, Huiming Luo⁵, Ning Wang⁵, Qiru Su⁶, Zhijie An⁶, Fubao Ma⁷, Shuyuan Xie⁸, Aiming Xu⁹, Zhengrong Ding¹⁰, Hui Li¹¹, Hailing Wang⁵, Li Li⁶, Matthew Ferrari¹²
¹City University of New York School of Public Health, New York, NY, United States, ²National Immunization Program, China CDC, Beijing, China, ³National Immunization Program, China Centers for Disease Control and Prevention, Beijing, China, ⁴Global Immunization Division, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵China National CDC, Beijing, China, ⁶National CDC, China, Beijing, China, ⁷Jiangsu Provincial CDC, China, Nanjing, China, ⁸Zhejiang Provincial CDC, China, Hangzhou, China, ⁹Shandong Provincial CDC, Jinan, China, ¹⁰Yunnan Provincial CDC, Kunming, China, ¹¹Gansu Provincial CDC, Lanzhou, China, ¹²Pennsylvania State University, College Park, PA, United States

1776

RESPIRATORY OUTBREAKS DURING AN OUTBREAK INVESTIGATION COURSE

Jean-Paul Carrera¹, Cesar V. Munayco², Marco A. Acuña³, Gabriela Salmón-Mulanovich⁴, Stephanie Montero-Trujillo⁵, Mónica Chiu⁶, Mauricio Cerpa⁶, Susana Altamirano⁷, Aida Soto⁸, Guillermo Gonzalvez⁸, Jenny Ojeda⁹, Roberto Montoya¹⁰, María Almirón⁶, Andrés G. Lescano⁵
¹Gorgas Memorial Institute, Panama, Panama, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ³Ministerio de Salud de Chile, Aysén, Chile, ⁴Duke University, Durham, NC, United States, ⁵Universidad Peruana Cayetano Heredia, Lima, Peru, ⁶Pan American Health Organization, Washington, DC, United States, ⁷Ministerio de salud Publica de Nicaragua, Managua, Nicaragua, ⁸Pan American Health Organization, Managua, Nicaragua, ⁹Ministerio de salud Pública del Ecuador, Quito, Ecuador, ¹⁰Pan American Health Organization, Quito, Ecuador

1777

IMPLICATION OF SOUND RECORDING SYSTEM ON TREATMENT SUCCESS FOR TB PATIENTS IN PORT HARCOURT NIGERIA

Anastasia I. Isodje¹, Omosivie Maduka², Charles Tobin-West²
¹University of Port Harcourt Teaching Hospital, Port Harcourt, Nigeria, ²University of Port Harcourt, Port Harcourt, Nigeria

1778

ANTIMYCOBACTERIAL AND PHYTOCHEMICAL ANALYSIS OF METHYL TERT-BUTYL ETHER EXTRACTS FROM THE FRUIT SKIN AND LEAVES OF *ANNONA MURICATA* LINN

Wisdom Iyanda-Joel, Michael Nshiogu, Emeka E. Iweala, Shalom Chinedu
Covenant University, Ota, Nigeria

**Trematodes - Schistosomiasis -
Epidemiology, Diagnosis and Treatment**

1779

A LECTIN-BASED ASSAY FOR DETECTION OF SCHISTOSOMIASIS

Anthony Luyai¹, W. Evan Secor²
¹IHRC, Inc, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

1780

THE PERSISTENT PARASITE: WHY DO *SCHISTOSOMA MANSONI* INFECTION LEVELS REMAIN HIGH IN THE RURAL UGANDAN VILLAGE OF WAKAWAKA EVEN AFTER OVER A DECADE OF TREATMENT?

Elizabeth Hollenberg¹, Fiona Fleming¹, Edridah Tukahebwa², Jane Whitton¹, Yolisa Nalule¹, Alan Fenwick¹, Arminder Deol¹
¹Schistosomiasis Control Initiative, London, United Kingdom, ²Ministry of Health Uganda, Kampala, Uganda

1781

COMMUNITY-WIDE PATTERNS OF INFECTION AFTER MORE THAN TEN YEARS OF PREVENTIVE CHEMOTHERAPY FOR SCHISTOSOMIASIS AND SOIL-TRANSMITTED HELMINTH INFECTION IN UGANDA: ARE WE READY TO MOVE BEYOND MORBIDITY CONTROL?

Arminder K. Deol¹, Michael D. French¹, Martin Walker², Edridah Tukahebwa³, Judy Fernandez¹, Fiona Fleming¹, Yolisa Nalule¹, Joanne P. Webster⁴, Maria-Gloria Basáñez²
¹Schistosomiasis Control Initiative, London, United Kingdom, ²Imperial College London, London, United Kingdom, ³Ministry of Health Uganda, Kampala, Uganda, ⁴Royal Veterinary College, London, United Kingdom

1782

MODELLING THE EFFECT OF A POTENTIAL VACCINE APPLICATION ON THE SCHISTOSOME PARASITE DYNAMICS**Andria Stylianou**¹, Afzal A. Siddiqui², Roy M. Anderson¹¹Imperial College London, London, United Kingdom, ²Texas Tech University, Lubbock, TX, United States

1783

UROGENITAL SCHISTOSOMIASIS: WHAT DO SCHOOLCHILDREN IN THE EASTERN REGION OF GHANA KNOW ABOUT THE DISEASE?**Rachel Martel**, Alexandra Kulinkina, David M. Gute, Elena N. Naumova, David Tybor, Karen Kosinski

Tufts University, Medford, MA, United States

1784

SPATIOTEMPORAL MODELING OF SCHISTOSOMIASIS IN GHANA: LINKING REMOTE SENSING DATA TO INFECTIOUS DISEASE**Madeline R. Wrable**¹, Alexander Liss¹, Alexandra Kulinkina¹, Magaly Koch², Nana-Kwadwo Biritwum³, Karen Kosinski⁴, David M. Gute¹, Elena Naumova¹¹Tufts University, Boston, MA, United States, ²Boston University, Boston, MA, United States, ³Neglected Tropical Disease Division of Ghana Health Services, Accra, Ghana, ⁴Department of Community Health, Tufts University, Boston, MA, United States

1785

EPIDEMIOLOGICAL MAPPING OF SCHISTOSOMIASIS AND SOIL TRANSMITTED HELMINTHIASIS IN 19 STATES AND THE FEDERAL CAPITAL TERRITORY (FCT), NIGERIA**Obiageli J. Nebe**¹, Ifeoma N. Anagbogu¹, Evelyn N. Ngige¹, Sunday Isiyaku², William E. Adamani², Aliyu Mohammed³, Francisca Olamiju⁴, Amy Mayberry⁵, Florence Nduka⁶, Christopher S. Ogochi⁷, Benjamin C. Nwobi⁸¹Federal Ministry of Health, Abuja, Nigeria, ²Sightsavers, Nigeria, Kaduna, Nigeria, ³Helen Keller International, Abuja, Nigeria, ⁴Mission To Save The Helpless (MITOSATH), Jos, Nigeria, ⁵Children Investment Fund Foundation UK, London, United Kingdom, ⁶University of Portharcourt Nigeria, Portharcourt, Nigeria, ⁷Health and Development Support Programme, Jos, Nigeria, ⁸Research Triangle International/ENVISION Project, Abuja, Nigeria

1786

EVALUATION OF A URINE POOLING STRATEGY FOR THE RAPID AND COST-EFFICIENT PREVALENCE CLASSIFICATION OF SCHISTOSOMIASIS**Nathan C. Lo**¹, Jean T. Coulibaly², Eran Bendavid¹, Eliézer K. N'Goran³, Jürg Utzinger⁴, Jennifer Keiser⁴, Isaac I. Bogoch⁵, Jason R. Andrews¹¹Stanford University School of Medicine, Stanford, CA, United States, ²Université Félix Houphouët-Boigny, Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Swiss Tropical and Public Health Institute, University of Basel, Abidjan, Côte D'Ivoire, ³Université Félix Houphouët-Boigny, Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Abidjan, Côte D'Ivoire, ⁴Swiss Tropical and Public Health Institute and University of Basel, Basel, Switzerland, ⁵University of Toronto, University Health Network, Toronto, ON, Canada

1787

SIZE MATTERS: CHANGING POPULATION STRUCTURE MEANS CHANGING SAMPLING REQUIREMENTS FOR SCHISTOSOME POPULATIONS**Lúcio M. Barbosa**¹, Luciano K. Silva², Moreno Rodrigues², Walter A. Blank³, Mitermayer G. Reis², Ronald E. Blanton³¹Bahiana School of Medicine and Public Health, Salvador, Brazil, ²Oswaldo Cruz Foundation, Bahia, Salvador, Brazil, ³Case Western Reserve School of Medicine, Cleveland, OH, United States

1788

SCHISTOSOMIASIS DIAGNOSIS AND CLINICAL MANAGEMENT: USE OF IMMUNODIAGNOSIS, DNA BASED ASSAY AND DETECTION OF CIRCULATING CATHODIC ANTIGEN (POC-CCA) PRE AND POST-PRAZIQUANTEL IN NON ENDEMIC AREAS**Marta G. Cavalcanti**, Aline Fernandes Cunha, José Mauro Peralta
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

1789

SCHISTOSOMIASIS IN SUB-SAHARAN AFRICA: SUCCESSES AND BARRIERS TO COMPLETE ERADICATION**Omotola M. Iranloye**

Dej & K Field School, Agbara, Ogun State, Nigeria

Trematodes - Schistosomiasis - Immunology

1790

THE ASSOCIATION OF RESISTANCE TO *SCHISTOSOMA MANSONI* REINFECTION AND HOST IMMUNITY IN MBITA KENYA COHORT**Bao Lam**, Dang My Nhi, Risa Nakamura, Daisuke Kimura, Sammy M. Njenga, Yoshio Ichinose, Katsuyuki Yui, Kenji Hirayama, Shinjiro Hamano
Nagasaki University, Nagasaki, Japan**(ACMCIP Abstract)**

Water, Sanitation, Hygiene and Environmental Health

1791

DEMOGRAPHIC COVARIATES OF CHOLERA RISK IN CAMEROON**Tyler Brady**¹, Arabi Mouhaman², Joseph Tien¹¹The Ohio State University, Columbus, OH, United States, ²University of Maroua, Maroua, Cameroon

1792

SHARED SANITATION FACILITIES AND TWO PATHWAYS OF DIARRHEAL DISEASE TRANSMISSION: A MODELING STUDY**Matthew R. Just**¹, Sheng Li², Kelly K. Baker³, Manoj Gambhir⁴, **Isaac Chun-Hai Fung**¹¹Georgia Southern University, Statesboro, GA, United States, ²City University of New York, New York City, NY, United States, ³University of Iowa, Iowa City, IA, United States, ⁴Monash University, Melbourne, Australia

1793

NOT IN MY BACKYARD: AN INDIVIDUAL-LEVEL META-ANALYSIS OF THE ASSOCIATION BETWEEN COMMUNITY OPEN DEFECATION AND STUNTING**David A. Larsen**, Thomas Gershon, Erik Slawsky, Lutchnie Narine
Syracuse University, Syracuse, NY, United States

1794

COMMUNITY BASED METHODS FOR SCHISTOSOMIASIS PREDICTION AND SUSTAINABLE CONTROL**Alexandra V. Kulinkina**¹, Yvonne Walz², Karen C. Kosinski¹, Nana K. Biritwum³, Elena N. Naumova⁴¹Tufts University, Medford, MA, United States, ²United Nations University, Bonn, Germany, ³Ghana Health Service, Accra, Ghana, ⁴Tufts University, Boston, MA, United States**Wednesday
November 16**

1795

THE ROLE OF ENVIRONMENTAL PROCESSES IN INFECTIOUS DISEASE DYNAMICS

Andrew F. Brouwer, Joseph N. Eisenberg
University of Michigan, Ann Arbor, MI, United States

1796

INTEGRATING WATER SANITATION AND HYGIENE PRACTICES AND NEGLECTED TROPICAL DISEASE INTERVENTIONS: EXPERIENCE FROM SOUTHERN TANZANIA

Alistidia Simon
Sightsavers-NTD Programme Tanzania, Dar es Salaam, United Republic of Tanzania

1797

CHOLERA AND ENVIRONMENTAL DYNAMICS IN AN ECUADOREAN ESTUARINE SYSTEM

Sadie J. Ryan¹, Anna M. Stewart-Ibarra², Eunice Ordonez³, Winnie Chu⁴, Julia L. Finkelstein⁴, Christine A. King², Luis E. Escobar², Christina Lupone², Froilan Heras⁵, Carlos Enriquez⁵, Erica Tauzer⁶, Egan Waggoner⁷, Tyler G. James¹, Washington Cardenas⁸, Mark Polhemus²

¹University of Florida, Gainesville, FL, United States, ²SUNY Upstate Medical University, Syracuse, NY, United States, ³ESPOL, Guyaquil, Ecuador, ⁴Cornell University, Ithaca, NY, United States, ⁵Machala, Ecuador, ⁶SUNY ESF, Syracuse, Ecuador, ⁷SUNY ESF, Syracuse, NY, United States, ⁸ESPOL, Guyaquil, NY, United States

1798

GLOBAL TRACHOMA MAPPING PROJECT: SANITATION COVERAGE THRESHOLD LEVELS AND PROTECTION AGAINST TRACHOMA

Joshua V. Garn, Matthew C. Freeman, GTMP Consortium
Emory University, Atlanta, GA, United States

1799

USE OF MULTI-PARALLEL QUANTITATIVE REAL-TIME PCR FOR GASTROINTESTINAL PARASITES IN RURAL MOZAMBIQUE: CORRELATION OF INFECTION INTENSITY TO WATER ACCESS, SANITATION AND HYGIENE (WASH)

Juliana Da Silva¹, Berta Grau-Pujol², Inocencia Cuamba³, Carlota Dobaño², Alejandro Krolewiecki⁴, Jose Muñoz², Rojelio Mejia¹, Augusto Nhabomba³
¹Baylor College of Medicine, Houston, TX, United States, ²Universitat de Barcelona, Barcelona, Spain, ³Centro de Investigaç o em Saúde de Manhica, Manhica, Mozambique, ⁴Universidad Nacional de Salta, Salta, Argentina

1800

EFFECT OF A COMBINED HARDWARE AND BEHAVIOR CHANGE INTERVENTION ON HANDWASHING BEHAVIORS IN PRIMARY SCHOOL CHILDREN: THE POVU POA SCHOOL PILOT STUDY

Wit Wichaidit
University at Buffalo, Buffalo, NY, United States

1801

EVALUATING THE IMPACT OF SCHOOL WATER, SANITATION AND HYGIENE IMPROVEMENTS USING THE PRESENCE OF SERUM ANTIBODIES FOR ENTERIC AND NEGLECTED TROPICAL DISEASES AMONG SCHOOL CHILDREN IN MALI

Anna N. Chard¹, Victoria Trinius¹, Delynn M. Moss², Howard H. Chang¹, Matthew C. Freeman¹

¹Emory University, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

1802

PREVALENCE OF ANTIBIOTIC-RESISTANT BACTERIA AND THEIR RESISTANCE GENES IN SURFACE WATERS IN A RURAL COMMUNITY OF BRAZIL

Vanessa T. Moretto¹, Patricia S. Bartley², Cleiton S. Santos³, Viviane M. Ferreira¹, Rafael T. Ponce⁴, Mitermayer G. Reis³, Ronald E. Blanton², Lúcio M. Barbosa¹

¹Bahiana School of Medicine and Public Health, Salvador, Brazil, ²Case Western Reserve School of Medicine, Cleveland, OH, United States, ³Oswaldo Cruz Foundation, Bahia, Salvador, Brazil, ⁴Mercer University School of Medicine, Macon, GA, United States

1803

FECAL FINGERPRINTS: THE LANDSCAPE OF ENTERIC PATHOGEN CONTAMINATION IN LOW-INCOME, URBAN NEIGHBORHOODS OF KISUMU, KENYA

Kelly K. Baker¹, Ananya Sen Gupta², Jane Mumma³, Oliver Cumming⁴, Reid Senesac¹

¹University of Iowa College of Public Health, Iowa City, IA, United States, ²University of Iowa College of Engineering, Iowa City, IA, United States, ³Great Lakes University of Kisumu, Kisumu, Kenya, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom

1804

MULTI-PARALLEL QUANTITATIVE REAL-TIME PCR FOR GASTROINTESTINAL PARASITES AND INFECTION BURDEN IN DISTINCT COLOMBIAN COMMUNITIES

Patricia E. Bryan¹, Alejandro Restrepo¹, Giovanni Torres Lindarte², Marcela Romero², Wilber Gómez², Marcos Restrepo², Rojelio Mejia¹

¹Baylor College of Medicine, Houston, TX, United States, ²Instituto Colombiano de Medicina Tropical, Medellín, Colombia

1805

ANTIBIOTIC STEWARDSHIP AND SANITATION: A MISSING PARTNERSHIP

Cleiton S. Santos¹, Patricia S. Bartley², Viviane T. Moretto¹, Viviane M. Ferreira³

¹Oswaldo Cruz Foundation, Bahia, Salvador, Brazil, ²Case Western Reserve School of Medicine, Cleveland, OH, United States, ³Bahiana School of Medicine and Public Health, Salvador, Brazil

1806

WHO INFLUENCES YOU? THE ROLE OF WOMEN IN INFORMATION DIFFUSION OF SANITATION AND WATER PRACTICES IN COASTAL ECUADOR

Sonia T. Hegde¹, James Trostle², Joseph Eisenberg¹

¹University of Michigan, Ann Arbor, MI, United States, ²Trinity College, Hartford, CT, United States

Late Breaker Abstract Session 132

Late Breakers in Malaria

Marriott - Imperial A

Wednesday, November 16, 12:15 p.m. - 1:30 p.m.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Late Breaker Abstract Presentation Schedule booklet in your registration packet for the presentation schedule.

CHAIR

Stefan Kappe
Center for Infectious Disease Research, Seattle, WA, United States

Meet the Professors 133

Meet the Professors C: Enigmatic and Teaching Cases

Marriott - Room M103/M104/M105

Wednesday, November 16, 12:15 p.m. - 1:30 p.m.

Students and trainees are especially encouraged to attend these interactive sessions, which are open to all meeting attendees. The speakers will present a clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose.

CHAIR

David R. Boulware

University of Minnesota, Minneapolis, MN, United States

PRESENTER

Daniel G. Bausch

World Health Organization, Geneva, Switzerland

CTropMed® Exam Committee Meeting

Marriott - Room M301

Wednesday, November 16, 12:15 p.m. - 1:30 p.m.

Membership Committee Meeting

Marriott - Room M108

Wednesday, November 16, 12:15 p.m. - 1:30 p.m.

Poster Session C Viewing

Hilton - Grand Ballroom and Grand Salon

Wednesday, November 16, 1:45 p.m. - 7 p.m.

Symposium 134

Global Antibiotic Resistance Partnership and ResistanceMap

Marriott - Imperial A

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

The Global Antibiotic Resistance Partnership (GARP), which will include 15 countries in Africa and Asia by the end of 2016, is a proven approach to preparing for national action plans to address antibiotic access and resistance, consistent with the 2015 WHO resolution. Since the project was launched in 2008 by the Center for Disease Dynamics, Economics & Policy (CDDEP), GARP working groups have developed situation analyses independent of, but in collaboration with, government, that have provided the grounding for policy development. The working groups, including local expertise across the One Health spectrum, have become national “brain trusts” and, in many cases, advisors to government and the private sector on aspects such as infection prevention and control, antibiotic stewardship, surveillance (although surveillance in these countries is often absent and laboratory capacity severely limited), antibiotic use in food animals and environmental needs. At a time when the need for national action on antibiotic resistance is great, but relatively few low- and middle-income countries (LMICs) have developed plans, the GARP model can be replicated or adapted to fill an urgent need. Key members of GARP teams in three countries will discuss

their experience. ResistanceMap, another CDDEP project, is the largest global repository of antibiotic resistance and use data. It is continually updated with current data from countries that have been represented for more than five years, and data from countries not previously included. LMIC data are initially coming mainly from private laboratories, as public laboratories are being upgraded, eventually to produce and contribute high-quality data. The graphic interface guides the user to produce a range of custom maps and graphics to display a wide range of antibiotics, pathogens and countries. Global trends in both antibiotic resistance and antibiotic consumption can be tracked and countries can benchmark their own numbers against others in the region or the world. One of the developers of ResistanceMap will demonstrate the program and discuss its uses.

CHAIR

Hellen Gelband

Center for Disease Dynamics, Economics & Policy, Washington, DC, United States

Eili Klein

Center for Disease Dynamics, Economics & Policy, Washington, DC, United States

1:45 p.m.

THE GLOBAL ANTIBIOTIC RESISTANCE PARTNERSHIP: 8 YEARS OF PROGRESS

Hellen Gelband

Center for Disease Dynamics, Economics & Policy, Washington, DC, United States

2 p.m.

GARP-KENYA: THE ROAD TO A NATIONAL ACTION PLAN

Evelyn Wesangula

Ministry of Health/GARP, Nairobi, Kenya

2:15 p.m.

GARP-MOZAMBIQUE

Esperanca Sevene

Eduardo Mondlane University, Maputo, Mozambique

2:30 p.m.

RESISTANCEMAP

Eili Klein

Johns Hopkins University, Baltimore, MD, United States

Symposium 135

malERA Refresh: Updating the Malaria Eradication Research Agenda

Marriott - Imperial B

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

“I really do believe that malaria will be eradicated in my lifetime”- Bill Gates, ASTMH 2014. Building on the moral argument that we should strive to eradicate malaria, the Malaria Eradication Research Agenda (malERA) was launched in 2008 culminating in a series of scientific papers, entitled ‘the Malaria Eradication Research Agenda (malERA)’ which were published in PLOS Medicine in 2011. With the development and progress made in both scientific research and malaria programs over the past years, it is now time to examine and update the malaria eradication research agenda. In collaboration with more than 180 experts around the world, the Malaria Eradication Scientific Alliance (MESA) has led a consultative process to review and update malERA, entitled ‘malERA Refresh’. This consultative

process started in June 2015 and it has been organized around six different thematic panels: basic science and enabling technologies, insecticide and drug resistance, characterizing the reservoir and measuring transmission, tools for elimination, combination interventions and modeling, health systems and policy research. This work will culminate in an open access publication at the end of 2016. This symposium is uniquely poised to share the main findings from the malERA Refresh process.

CHAIR

Regina Rabinovich

Harvard T.H. Chan School of Public Health/ISGlobal, Boston/Barcelona, MA, United States

Pedro Alonso

World Health Organization, Geneva, Switzerland

1:45 p.m.

BASIC RESEARCH AND DISRUPTIVE TECHNOLOGIES

Elizabeth Winzeler

University of California San Diego, San Diego, United States

2:05 p.m.

MITIGATING ANTIMALARIAL DRUG RESISTANCE

Abdoulaye Djimdé

Malaria Research and Training Center in Bamako, Bamako, Mali

2:25 p.m.

TOOLS FOR MALARIA ELIMINATION

Fredros Okumu

Ifakara Health Institute, Ifakara, United Republic of Tanzania

2:45 p.m.

INNOVATIONS IN SURVEILLANCE AND HEALTH SYSTEMS

Marcel Tanner

Swiss Tropical and Public Health Institute, Basel, Switzerland

Scientific Session 136

Global Health: mHealth, Vaccines and Strategies

Marriott - Marquis A

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

CHAIR

Mary Hayden

National Center for Atmospheric Research, Boulder, CO, United States

Luisa Rubiano

CIDEIM, Cali, Colombia

1:45 p.m.

1807

CLINICAL PREDICTION RULE OPERATED BY MOBILE PHONES FOR EARLY DETECTION AND REFERRAL OF CUTANEOUS LEISHMANIASIS IN RURAL AREAS OF COLOMBIA

Luisa C. Rubiano¹, Alvaro Martinez¹, Ruth M. Castillo¹, Lina R. Hurtado¹, Leonardo Vargas², Juan D. Arango², James Cuenca², Carlos Rojas³, Helena del Corral³, Andres Navarro², Nancy G. Saravia¹

¹Centro Internacional de Entrenamiento e Investigaciones Médicas, Cali, Colombia, ²ICESI, Cali, Colombia, ³Universidad de Antioquia, Medellín, Colombia

2 p.m.

1808

THE EFFECT OF TEXT MESSAGE REMINDERS TO HEALTH WORKERS ON QUALITY OF CARE FOR MALARIA, PNEUMONIA, AND DIARRHEA IN MALAWI: A RANDOMIZED CONTROLLED TRIAL

Laura C. Steinhardt¹, Don Mathanga², Dyson Mwandama², Humphreys Nsona³, Dubulao Moyo³, Austin Gumbo³, Miwako Kobayashi¹, Ruth Namuyinga¹, Monica Shah¹, Andy Bauleni², Peter Troell⁴, Dejan Zurovac⁵, Alexander K. Rowe¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Malaria Alert Centre, Blantyre, Malawi, ³Ministry of Health, Lilongwe, Malawi, ⁴U.S. President's Malaria Initiative, Centers for Disease Control and Prevention, Lilongwe, Malawi, ⁵KEMRI-Wellcome Trust, Nairobi, Kenya

2:15 p.m.

1809

MULTIMEDIA TOOL FOR OBTAINING INFORMED CONSENT IN THE GAMBIA: A MIXED METHOD STUDY

Muhammed O. Afolabi¹, Nuala McGrath², Umberto D'Alessandro¹, Beate Kampmann¹, Egeruan Imoukhuede³, Raffaella Ravinetto⁴, Neal Alexander⁵, Heidi J. Larson⁵, Daniel Chandramohan⁵, Kalifa Bojang¹

¹Medical Research Council, Banjul, Gambia, ²University of Southampton, Southampton, United Kingdom, ³University of Oxford, Oxford, United Kingdom, ⁴Institute of Tropical Medicine, Antwerp, Belgium, ⁵London School of Hygiene & Tropical Medicine, London, United Kingdom

2:30 p.m.

1810

FIRST ORAL CHOLERA VACCINATION CAMPAIGN IN IRAQ DURING AN OUTBREAK AND HUMANITARIAN CRISIS: FINDINGS FROM THE COVERAGE SURVEY, 2015

Eugene Lam¹, Wasan Al-Tamimi², Steven P. Russell¹, Muhammad Obaid-ul Islam Butt², Curtis Blanton¹, Altaf Sadrudin Musani³, Kashmiri Date¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²World Health Organization, Office of the WHO Representative in Iraq, Baghdad, Iraq, ³World Health Organization, Office of the WHO Representative in Iraq, Atlanta, GA, United States

2:45 p.m.

1811

TIMELINESS OF VACCINATION IN AN URBAN SLUM IN NAIROBI, KENYA

Jonathan S. Schultz¹, Shadrack Muema², Alice Ouma², Leonard Cosmas³, Geoffrey Masyongo², Godfrey Bigogo², Marc-Alain Widdowson³, Jennifer R. Verani³

¹Hubert Global Health Fellowship Program, Centers for Disease Control and Prevention, and University of Colorado, Aurora, CO, United States, ²Center for Global Health Research, Kenya Medical Research Institute, Nairobi, Kenya, ³Division of Global Health Protection, Centers for Disease Control and Prevention, Nairobi, Kenya

3 p.m.

1812

COST-EFFECTIVENESS OF DENGUE VACCINATION IN FIVE LATIN AMERICAN COUNTRIES

Donald S. Shepard¹, Yara A. Halasa¹, Wu Zeng¹, Nicolas Baurin², Laurent Coudeville²

¹Brandeis University, Waltham, MA, United States, ²Sanofi Pasteur, Lyon, France

3:15 p.m.

1813

SNAKEBITE: STRATEGIES TO REVERSE THE PUBLIC HEALTH NEGLECT OF TROPICAL SNAKEBITE VICTIMS

Robert A. Harrison¹, Jose-Maria Gutierrez²

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Instituto Clodomiro Picado, San Jose, Costa Rica

Symposium 137

Rebuilding Health Systems for Ebola Survivors

Marriott - Marquis B

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

Ebola Survivors face unique health problems as a result of having contracted EVD, including vision complications, hearing loss, chronic pain, fatigue, emotional or psychological distress, as well as isolated cases of more acute complications that the medical community is only beginning to understand. Survivors also face challenges with stigma, community reintegration, and unique socioeconomic vulnerabilities due to their illness and time in treatment and recovery. Partners In Health, along with other key players, has been highly engaged in delivering what are now the core components of the Government of Sierra Leone's Comprehensive Program for Ebola Survivors (CPES) since October 2014, prioritizing accelerated delivery of some of the most urgently needed services. These services address the need for systematic, early clinical follow up for Ebola Survivors and the need for partnership with the public sector to provide sustainable, long-term care.

CHAIR

Jennifer Garland

Partners In Health, Boston, MA, United States

Daniel G. Bausch

World Health Organization, Geneva, Switzerland

1:45 p.m.

STRENGTHENING VULNERABLE HEALTH SYSTEMS THROUGH A BROAD BASED POLICY APPROACH

Elizabeth Glaser

Brandeis University, Boston, MA, United States

2:05 p.m.

INTEGRATION AND HEALTH SYSTEM SCALE UP OF EVD SURVIVOR HEALTHCARE IN SIERRA LEONE

Joyce Chang

Partners In Health, Freetown, Sierra Leone

2:25 p.m.

CLINICAL SERVICE DELIVERY AND RISK MITIGATION FOR EVD SURVIVORS

Jennifer Garland

Partners In Health, Port Loko, Sierra Leone

2:45 p.m.

TRANSITIONING FROM EBOLA RESPONSE TO SYSTEMS RECOVERY THROUGH LEVERAGING SOCIAL NETWORKS

Andrew Sesay

Partners In Health, Kono, Sierra Leone

Symposium 138

Confronting the Burden of Shigellosis through Vaccine Development

Marriott - Marquis C

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

New molecular diagnostics have identified *Shigella* as a far more significant cause of diarrhea in developing nations than previously recognized. This observation is likely to influence policymakers in

those countries to re-orient diarrhea control strategies to target shigellosis. Vaccines, when available, are expected to have an important role in reducing disease incidence along with access to sanitation and potable water. This symposium will present data on the burden of *Shigellosis* in pediatric populations of developing nations and detail approaches to producing a safe, effective and inexpensive *Shigella* vaccine.

CHAIR

Thomas F. Wierzb

PATH, Washington, DC, United States

Richard Walker

PATH, Washington, DC, United States

1:45 p.m.

REVISED BURDENS OF SHIGELLOSIS IN CHILDREN IN DEVELOPING COUNTRIES USING QUANTITATIVE MOLECULAR DIAGNOSTICS

Jie Liu

University of Virginia, Charlottesville, VA, United States

2:10 p.m.

SAFETY AND IMMUNOGENICITY OF A CANDIDATE BIOCONJUGATE VACCINE AGAINST *SHIGELLA FLEXNERI* 2A ADMINISTERED TO HEALTHY ADULTS: A SINGLE BLIND, RANDOMIZED PHASE I STUDY

Mark Riddle

Naval Medical Research Center, Silver Spring, MD, United States

2:25 p.m.

A PHASE 1 OPEN-LABEL, DOSE ESCALATING STUDY OF ARTIFICIAL *SHIGELLA FLEXNERI* 2A INVAPLEX ADMINISTERED INTRANASALLY TO HEALTHY, ADULT VOLUNTEERS

Christopher Duplessis

Naval Medical Research Center, Silver Spring, MD, United States

2:45 p.m.

RECENT CLINICAL EXPERIENCE WITH *SHIGELLA* VACCINES AND HUMAN CHALLENGE MODELS

Karen Kotloff

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

Symposium 139

Unleashing the Potential of Malaria Parasite Genetics Research in Africa: An Update on the *Plasmodium* Diversity Network Africa (PDNA)

Marriott - Marquis D

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

A concerted effort at surveying *Plasmodium* genetic diversity is required for effective control and elimination of malaria in sub-Saharan Africa. The *Plasmodium* diversity network Africa (PDNA) is an African-led initiative bringing together researchers from malaria endemic sub-Saharan African countries to address these challenges. PDNA includes scientists from biomedical research institutions in 15 sub-Saharan African countries i.e. Angola, Cameroon, Cape Verde, Côte d'Ivoire, Democratic Republic of Congo (DRC), Ethiopia, Gabon, The Gambia, Ghana, Kenya, Madagascar, Mali, Mozambique, Tanzania and South Africa. The mission of PDNA is to determine the diversity of malaria parasites in sub-Saharan Africa and use this data to inform malaria control

policy. Developing capacity in genetics and bioinformatics is the second focus of our Network. Since its launch a couple of years ago, PDNA is making progress both on generating data on parasite genetic diversity and training in big data handling and analysis in sub-Saharan Africa. PDNA published one of the first comprehensive map of *Plasmodium falciparum* Kelch 13 polymorphism in sub-Saharan Africa. In collaboration with the Wellcome Trust Sanger Institute, PDNA has sequenced and is analyzing malaria parasite samples from across its network. The PDNA training program termed Developing Excellence in Leadership and Genetic Training for Malaria Elimination in Sub-Saharan Africa (DELGEME) is one of the seven applications recently funded as part of the Wellcome Trust's Developing Excellence and Leadership Training is Science (DELTAS) Africa initiative. In that context over the next five years, ninety young African scientists ranging from graduate interns, MSc, PhDs, post-doctoral fellows to aspiring leaders will be trained primarily in Africa in genetics and bio-informatics. An update on PDNA's progress both on the genetics and training activities will be presented by four PDNA members. In addition, underlying scientific, ethical and practical challenges of genetics training and genetic studies in sub-Saharan Africa will be discussed.

CHAIR

Abdoulaye Djimde

University of Bamako, Bamako, Mali

Thomas M. Kariuki

Alliance for Accelerating Excellence in Science in Africa, Nairobi, Kenya

1:45 p.m.

HETEROGENEITY OF MALARIA EPIDEMIOLOGY ACROSS PDNA SITES

Marielle Bouyou-Akotet ep Loembe

Université des Sciences de la Santé, Libreville, Gabon

2:05 p.m.

TWO-TIME POINT ANALYSIS OF *PLASMODIUM FALCIPARUM* GENETIC VARIATION OVER FIVE YEARS FOR GAMBIA, GHANA AND MALI

Alfred Amambua-Ngwa

MRC Gambia Unit, Banjul, Gambia

2:25 p.m.

A TRANS-AFRICAN *PLASMODIUM FALCIPARUM* GENETIC DIVERSITY ANALYSIS

Lucas Amenga-Etego

Navrongo Health Research Centre, Navrongo, Ghana

2:45 p.m.

A NEW TRAINING PROGRAM IN GENETICS IN AFRICA: DEVELOPING EXCELLENCE IN LEADERSHIP AND GENETIC TRAINING FOR MALARIA ELIMINATION IN SUB-SAHARAN AFRICA

Abdoulaye A. Djimde

University of Bamako, Mali, Bamako, Mali

Scientific Session 140

Schistosomiasis and Other Trematodes: Transmission and Treatment

Marriott - Room M103/M104/M105

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

CHAIR

Donald Harn

University of Georgia, Athens, GA, United States

Lisa McEwen

University of Georgia, Athens, GA, United States

David Smith

Queen's University Belfast, Holywood, United Kingdom

1:45 p.m.

1814

A NOVEL FAMILY OF KUNITZ-TYPE INHIBITORS FROM *FASCIOLA HEPATICA* - POTENT INHIBITION OF VIRULENCE-ASSOCIATED CYSTEINE PROTEASES

David Smith, Irina Tikhonova, Orla C. Drysdale, Jan Dvorak, Mark W. Robinson, Krystyna Cwiklinski, John P. Dalton

Queen's University Belfast, Belfast, United Kingdom

(ACMCIP Abstract)

2 p.m.

1815

DRAFT GENOMES OF FOUR SPECIES OF THE LUNG FLUKE *PARAGONIMUS*

Bruce A. Rosa¹, Samantha N. McNulty¹, Peter U. Fischer², Takeshi Agatsuma³, Hiromu Sugiyama⁴, Wanchai Maleewong⁵, Pham Ngoc Doanh⁶, Thanh Hoa Le⁷, David Blair⁸, Paul J. Brindley⁹, Makedonka Mitreva¹

¹The McDonnell Genome Institute at Washington University, St. Louis, MO, United States, ²Washington University School of Medicine, St. Louis, MO, United States, ³Kochi University Medical School, Nankoku City, Japan, ⁴National Institute of Infectious Diseases, Tokyo, Japan, ⁵Khon Kaen University, Khon Kaen, Thailand, ⁶Vietnam Academy of Science and Technology, Hanoi, Vietnam, ⁷Institute of Biotechnology, Hanoi, Vietnam, ⁸James Cook University, Townsville, Australia, ⁹George Washington University, Washington, DC, United States

(ACMCIP Abstract)

2:15 p.m.

1816

COMPLEMENTATION OF CELLULAR PROLIFERATION DRIVEN BY GRANULIN BY LIVER FLUKE GRANULIN IN A CHOLANGIOCYTE LINE AFTER GENOME EDITING TO MUTATE HGRN

Wannaporn Ittiprasert¹, Christina Cochran¹, Chutima Kumkhaek², Victoria Mann¹, Alex Loukas³, Michael Smout³, Aphisit Chaidee⁴, Paul Brindley¹

¹George Washington University, Washington, DC, United States, ²National Institutes of Health, Bethesda, MD, United States, ³James Cook University, Queensland, Australia, ⁴Khon Kaen University, Khon Kaen, Thailand

2:30 p.m.

1817

TISSUE SPECIFIC LOCALIZATION OF *NEORICKETTSIA* ENDOSYMBIONTS IN THE INTESTINAL TREMATODE *PLAGIORCHIS ELEGANS* AND THE LIVER FLUKE *FASCIOLA HEPATICA* SHOW SIMILAR DISTRIBUTION PATTERNS

Kerstin Fischer¹, Vasyi Tkach², Jose F. Tort³, Gabriel Rinaldi⁴, Paul J. Brindley⁴, Makedonka Mitreva¹, Peter U. Fischer¹

¹Washington University School of Medicine, St. Louis, MO, United States, ²University of North Dakota, Grand Forks, ND, United States, ³Universidad de la Republica, Montevideo, Uruguay, ⁴George Washington University, Washington, DC, United States

(ACMCIP Abstract)

2:45 p.m.

1818

MATHEMATICAL MODELING OF THE TRANSMISSION DYNAMICS OF *OPISTHORCHIS VIVERRINI* IN LAO PDR

Christine Bürli¹, Helmut Harbrecht², Peter Odermatt¹, Somphou Sayasone³, Nakul Chitnis¹

¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²Universität Basel, Basel, Switzerland, ³National Institute of Public Health, Vientiane, Lao People's Democratic Republic

3 p.m.

1819

OUTCOME OF TWO PHASE I RELATIVE BIOAVAILABILITY STUDIES IN HEALTHY VOLUNTEERS AFTER ADMINISTRATION OF THE NEW PEDIATRIC ODT FORMULATIONS OF RACEMATE PRAZIQUANTEL (RAC-PZO) AND OF THE ACTIVE ENANTIOMER OF PRAZIQUANTEL (L-PZO)

Wilhelmina M. Bagchus¹, Deon Bezuidenhout², Eleanor Harrison³, Peter Wolna³, Oezkan Yalginoglu³, Ely Kourany-Lefoll⁴, Peter L. Bonate⁵

¹EMD Serono R&D Institute, Billerica, MA, United States, ²Merck (Pty) Ltd [an affiliate of Merck KGaA, Darmstadt, Germany], Pretoria, South Africa, ³Merck KGaA, Darmstadt, Germany, ⁴MerckSerono S.A. [an affiliate of Merck KGaA, Darmstadt, Germany], Coinsins, Switzerland, ⁵Astellas, Northbrook, IL, United States

3:15 p.m.

1820

COMPARATIVE EFFICIENCY OF *BIOMPHALARIA PFEIFFERI* AND *B. SUDANICA* AS INTERMEDIATE HOST SNAILS FOR *SCHISTOSOMA MANSONI* AND ITS IMPLICATIONS FOR TRANSMISSION OF SCHISTOSOMIASIS IN KENYA

Martin W. Mutuku

Kenya Medical Research Institute, Nairobi, Kenya

Scientific Session 141

Zika

Marriott - Atrium A

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

CHAIR

Jesica Swanstrom

University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Stephen S. Whitehead

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

1:45 p.m.

1821

DEVELOPMENT OF A NONHUMAN PRIMATE MODEL OF ZIKA VIRUS INFECTION IN PREGNANT AND NON-PREGNANT RHESUS MACAQUES

Emma L. Mohr¹, Dawn M. Dudley¹, Matthew T. Aliota¹, Andrea Weiler¹, Gabrielle Lehrer-Brey¹, Kim L. Weisgrau¹, Mariel S. Mohns¹, Meghan E. Breitbart¹, Mustafa N. Rasheed¹, Dane D. Gellerup¹, Louise H. Moncla¹, Jennifer Post¹, Nancy Schultz-Darken¹, Michele L. Schotkzo¹, Jennifer M. Hayes¹, Josh A. Eudailey², M. Anthony Moody², Sallie R. Permar², Shelby L. O'Connor¹, Eva G. Rakasz¹, Heather A. Simmons¹, Saverio Capuano III¹, Thaddeus G. Golos¹, Jorge E. Osorio¹, Thomas C. Friedrich¹, David H. O'Connor¹

¹University of Wisconsin Madison, Madison, WI, United States, ²Duke University, Durham, NC, United States

2 p.m.

1822

ZIKA VIRUS INFECTION OF HUMAN PLACENTAL CELLS AND EXPLANTS: THE ROLE OF ZIKV RECEPTORS AND ANTI-FLAVIVIRUS ANTIBODIES

Henry Puerta-Guardo¹, Takako Tabata², Matthew Pettit², Daniela Michlmayr¹, Martina Beltramello³, Davide Corti³, Federica Sallusto⁴, Antonio Lanzavecchia⁴, Lenore Pereira², Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Department of Cell and Tissue Biology, School of Dentistry, University of California San Francisco, San Francisco, CA, United States, ³Humabs BioMed SA, Bellinzona, Switzerland, ⁴Institute for Research in Biomedicine, Università della Svizzera Italiana, Bellinzona, Switzerland

2:15 p.m.

1823

THE CRYO-EM STRUCTURE OF ZIKA VIRUS

Devika Sirohi¹, Zhenguo Chen¹, Lei Sun¹, Thomas Klose¹, Theodore C. Pierson², Michael G. Rossmann¹, Richard J. Kuhn¹

¹Purdue University, West Lafayette, IN, United States, ²National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

2:30 p.m.

1824

BOOSTING ALTERS THE CROSS-NEUTRALIZING CAPACITY OF ANTIBODY-RESPONSE FOLLOWING ZIKA EXPOSURE IN C57BL/6 MICE

Anna B. Kawiecki, Anu Susan Charles, Rebecca C. Christofferson
Louisiana State University, Baton Rouge, LA, United States

2:45 p.m.

1825

VECTOR COMPETENCE OF AMERICAN MOSQUITOES FOR MULTIPLE STRAINS OF ZIKV REPRESENTING EACH GENETIC CLADE

James D. Weger-Lucarelli

Colorado State University, Fort Collins, CO, United States

3 p.m.

1826

MAPPING ZIKA VIRUS CROSS-NEUTRALIZING EPITOPES

Jesica Swanstrom, Jessica Plante, Ken Plante, Ellen Young, Mark Heise, Aravinda de Silva, Ralph Baric

University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

3:15 p.m.

1827

DEVELOPMENT AND CHARACTERIZATION OF LIVE ATTENUATED VACCINE CANDIDATES FOR ZIKA VIRUS

Stephen S. Whitehead¹, Sara E. Woodson¹, Caiyen Firestone¹, Emerito Amaro-Carambot¹, Anna P. Durbin²

¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Symposium 142

Bridging the Gap between Patients and Access to Chagas Treatment: Lessons Learned from Scaling-up Models in Latin America and the USA

Marriott - Atrium B

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

Chagas Disease silently kills tens of thousands each year. Approximately six million people, most of whom are poor, live with the parasite worldwide (300,000 in the USA). It is the leading parasitic killer of the Americas and causes the highest disease burden of any parasitic disease in the Western hemisphere. Chagas Disease is one of the world's 17 neglected tropical diseases, a major public health problem in Latin America, with increasing patient numbers in other regions of the world, such as Europe and Asia, due to migration of infected individuals from endemic areas. Major gaps still remain between the estimates of the number of people living with Chagas disease and those actually diagnosed and receiving treatment: more than 99% of those affected do not have access to treatment. Even with a significant decrease in the incidence of the disease, mostly due to successful vector and blood control programs in endemic countries, the burden of Chagas-associated complications is expected to continue, as about one-third of infected individuals, if not treated, will progress with the disease, presenting long-term specific complications of the infection. Recent studies have shown that—while it is of paramount importance that new and improved tools are developed for Chagas — it is possible to treat and manage patients with currently available tools. As troubling figures demonstrate that less than 1% of patients receive treatment, we cannot afford to lose track of what is at stake here: The urgent need to scale up access to diagnosis and medicine in all affected countries. The Chagas Global Coalition has come together to mobilize efforts to scale-up access to currently available diagnosis and treatment, as well as to stimulate the definition of improved context-specific delivery care models, research and development for new drugs and diagnostic tools. The concern is how to bridge the gap between those infected and diagnosis and treatment available.

CHAIR

Peter J. Hotez

Sabin Vaccine Institute Product Development Partnership and Baylor College of Medicine, Houston, TX, United States

1:45 p.m.

TREATMENT RECOMMENDATIONS FOR PATIENTS WITH *T. CRUZI* INFECTION

Maria Jesús Pinazo

Barcelona Institute for Global Health, Barcelona, Spain

2:05 p.m.

CHAGAS DISEASE A GLOBAL HEALTH PROBLEM ALSO IN USA: GAPS AND CHALLENGES

Sheba Meymandi

University of California Los Angeles Medical Center, Sylmar, CA, United States

2:15 p.m.

SCALING UP ACCESS TO TREATMENT: LESSONS LEARNED IN ENDEMIC AND NON-ENDEMIC COUNTRIES

Carolina Batista

Drugs for Neglected Diseases initiative, Rio de Janeiro, Brazil

2:35 p.m.

NEW STRATEGIES FOR R&D AND DRUG DEVELOPMENT

María Elena Botazzi

Sabin Vaccine Institute Product Development Partnership and Baylor College of Medicine, Houston, TX, United States

Symposium 143

Integrated Community Case Management (iCCM) and the Continuum of Care: Strategy to Improve Quality of Care and Rational Drug Use

Marriott - Room A601

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

The majority of countries in Africa now have programs in place to improve access to treatment services for malaria, pneumonia and diarrhea at the community level – 'integrated community case management (iCCM)'. ICCM has multiple benefits, including increasing early care seeking for illness, provision of prompt access to appropriate treatment for children, and reduction of morbidity and mortality among young children. However for iCCM programs to be effective, they require strong links with health facilities and the formal health system as part of a continuum of care for integrated management of childhood illness (IMCI). An effective IMCI/iCCM continuum of care provides a strategy for increasing rational use of drugs – both antibiotics and antimalarials. This symposium will present some of the latest evidence and explore innovative strategies for improving quality of care and rational drug use, including new research on the role of the private sector, and efforts to link HIV/TB along the IMCI/iCCM continuum of care.

CHAIR

Davidson H. Hamer

Boston University School of Public Health, Center for Global Health and Development, Boston, MA, United States

Mark Young

UNICEF, New York, NY, United States

1:45 p.m.

REVIEW OF THE LATEST EVIDENCE ON THE ROLE OF ICCM IN PROMOTING QUALITY OF CARE AND RATIONAL DRUG USE AS A STRATEGY FOR ANTIMICROBIAL RESISTANCE (AMR)

Emily White Johansson

Uppsala University, Uppsala, Sweden

2:05 p.m.

USE OF M-HEALTH TO IMPROVE SUPPLY CHAINS AND QUALITY OF CARE FOR ICCM IN ZAMBIA

Godfrey Biemba

Zambia Centre for Applied Health Research and Development, Lusaka, Zambia

2:25 p.m.
INTEGRATING AND IMPROVING QUALITY OF CARE FOR CHILDREN AT DRUG SHOPS: THE ROLE OF ICCM

Phyllis Awor
Makerere University School of Public Health, Kampala, Uganda

2:45 p.m.
USE OF THE ICCM PLATFORM IN UGANDA TO IDENTIFY CHILDREN AT RISK FOR HIV AND TB, AND LINKS TO CARE AND SUPPORT

Jesca N. Sabiiti
Ministry of Health, Kampala, Uganda

Scientific Session 144

Mosquitoes: Molecular Genetics and Genomics

Marriott - Room A602
Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

CHAIR

Elizabeth Hemming
University of California Irvine, Irvine, CA, United States

Alvaro Molina-Cruz
National Institutes of Health, Rockville, MD, United States

1:45 p.m. **1828**

THE ROLE OF ECDYSONE RECEPTOR IN ANOPHELES GAMBIAE MOSQUITO POST-MATING BIOLOGY

Kristine Werling, Evdoxia Kakani, Sara Mitchell, Maurice Itoe, Flaminia Catteruccia
Harvard T.H. Chan School of Public Health, Boston, MA, United States

2 p.m. **1829**

PLASMODIUM FALCIPARUM PFS47 GENETIC DIVERSITY IN FIELD COLLECTED ANOPHELES GAMBIAE AND ANOPHELES COLUZZII FROM MALI, AFRICA

Alvaro Molina-Cruz¹, Emma Taylor-Salmon¹, Moussa Keita², Nafomon Sogoba², Carolina Barillas-Mury¹
¹National Institutes of Health, Rockville, MD, United States, ²MRTC, University of Bamako, Bamako, Mali

2:15 p.m. **1830**

HYBRID ALLELIC IMBALANCE AND GENE EXPRESSION EVOLUTION IN THE ANOPHELES GAMBIAE SPECIES COMPLEX

Kevin C. Deitz¹, Willem Takken², Michel A. Slotman¹
¹Texas A&M University, College Station, TX, United States, ²Wageningen University, Wageningen, Netherlands

2:30 p.m. **1831**

HEMOCYTE-SPECIFIC MANIPULATION OF THE IMD PATHWAY AFFECTS PLASMODIUM INFECTION IN ANOPHELES STEPHENSI

Frank Criscione, David O'Brochta
University of Maryland, Rockville, MD, United States

2:45 p.m. **1832**

LANDSCAPE GENETICS OF PYRETHROID RESISTANCE IN ANOPHELES ARABIENSIS IN KENYA

Elizabeth Hemming-Schroeder, Eugenia Lo, Daibin Zhong, Guiyun Yan
University of California Irvine, Irvine, CA, United States

3 p.m. **1833**

GENOMIC ANALYSIS OF THE ANOPHELES GAMBIAE BAMAKO ECOTYPE

R. Rebecca Love¹, Aaron M. Steele¹, Mamadou B. Coulibaly², Sékou F. Traore², Scott J. Emrich¹, Michael C. Fontaine³, Nora J. Besansky¹
¹University of Notre Dame, Notre Dame, IN, United States, ²University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali, ³University of Groningen, Groningen, Netherlands

3:15 p.m. **1834**

ASSESSMENT OF THE POST-ZYGOTIC REPRODUCTIVE BARRIERS BETWEEN AN. GAMBIAE ET AN. COLUZZII

Abdoulaye Niang¹, Charles Nignan¹, Simon P. Sawadogo¹, Hamidou Maïga¹, Lassan Konaté², Ousmane Faye², Roch K. Dabiré¹, Frederic Tripet³, Abdoulaye Diabaté¹
¹Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, ²Laboratoire d'Ecologie Vectorielle et Parasitaire, UCAD, Dakar, Senegal, ³Centre for Applied Entomology and Parasitology, School of Life Sciences, Keele University, Staffordshire, United Kingdom

Symposium 145

Novel Biomarkers and Predictors of Cerebral Malaria Severity and Targets for Intervention

Marriott - Room A703/A704
Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

Plasmodium falciparum can cause a diffuse encephalopathy known as cerebral malaria (CM), a major contributor to malaria associated mortality. Despite treatment, mortality due to CM can be as high as 30% while 10% of survivors of the disease may experience short- and long-term neurological complications. The pathogenesis of CM and other forms of severe malaria is multi-factorial involving various host responses including cytokine and chemokine homeostasis, hematopoiesis, inflammation and vascular injury/repair processes. Identification of prognostic markers that can predict CM severity is urgently needed to enable development of better intervention. This symposium will provide insights and updates on recent findings that identify factors mediating CM that may have utility in accurately predicting risk and management of CM.

CHAIR

Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

Linnie M. Gолightly
Weill Cornell Medicine, New York, NY, United States

1:45 p.m.
WHAT LEADS TO LONG-TERM NEURODEVELOPMENTAL IMPAIRMENT IN CEREBRAL MALARIA?

Chandy John
Indiana University School of Medicine, Indianapolis, IN, United States

2:05 p.m.

VASOMODULATORY MEDIATORS AND THEIR EFFECTS ON COGNITIVE FUNCTION AND SURVIVAL IN EXPERIMENTAL CEREBRAL MALARIA

Mahalia Desruisseaux

Albert Einstein College of Medicine, Bronx, NY, United States

2:25 p.m.

MICROVASCULAR REPAIR AND THE RESOLUTION OF CEREBRAL MALARIA

Linnie M. Golightly

Weill Cornell Medicine, New York, NY, United States

2:45 p.m.

PROTECTIVE ROLE OF NEUREGULIN AGAINST CEREBRAL MALARIA PATHOGENESIS

Jonathan K. Stiles

Morehouse School of Medicine, Atlanta, GA, United States

Symposium 146

Malaria Pre-Elimination: Ensuring Correct Care of Reproductive Age Women

Marriott - Room A706/A707

Wednesday, November 16, 1:45 p.m. - 3:30 p.m.

As malaria control interventions are scaled up and sustained and malaria transmission levels decline and prevalence falls, an increasing number of countries are starting to see elimination on the horizon. For pregnant women, the antimalarial antibodies that have provided some level of protection in moderate to high malaria transmission settings are reduced as malaria transmission declines. Current evidence shows that as transmission levels decline, the consequences from *P. falciparum* malaria are even greater for pregnant women. As countries enter pre-elimination stage and move towards eventual elimination, it will be important to address the needs of pregnant women given their increased vulnerability. To help achieve elimination, countries are exploring strategies involving widespread distribution of anti-malarials, primarily artemisinin-combination therapies (ACTs), to asymptomatic individuals, including both mass drug administration (MDA) and mass screen and treat (MSaT). Given the limited human data, ACTs are currently contraindicated in first trimester, except in documented cases of clinical malaria illness where quinine is unavailable. This poses a challenge in mass campaigns, as it requires the identification of women in early pregnancy who are not yet obviously pregnant, and may not wish to reveal their pregnancy status. While only about 5% of the population is pregnant at any given time, and only 1/3 of those are in the first trimester, approximately 20% of the population is comprised of women of reproductive age who may be pregnant. Thus, the number of women who need to be screened for pregnancy is substantial across countries. This symposium will present experiences from three countries: Mozambique, Sierra Leone, and Brazil; specifically, looking at how these countries have addressed pregnant women in their malaria pre-elimination strategies. Further, the symposium will discuss the important ethical considerations that should be reviewed as countries contemplate standard diagnosis, notification and treatment vs. MDA. The lessons learned can be disseminated to guide other countries where these strategies are being considered.

CHAIR

Clara Menéndez

IS Global, Barcelona Institute for Global Health, Barcelona, Spain

Larry Slutsker

PATH, Seattle, WA, United States

1:45 p.m.

MASS DRUG ADMINISTRATION WITH DHAPQ AND PREGNANCY - THE MOZAMBIKAN EXPERIENCE

Francisco Saúte

Mozambican Alliance Towards the Elimination of Malaria, Maputo, Mozambique

2 p.m.

USING MASS DRUG ADMINISTRATION WITH ACT FOR PREGNANT WOMEN IN RESPONSE TO THE EBOLA EPIDEMIC: SIERRA LEONE EXPERIENCE

Samuel J. Smith

National Malaria Control Programme, Ministry of Health and Sanitation, Freetown, Sierra Leone

2:15 p.m.

ENSURING CORRECT CARE OF REPRODUCTIVE AGE WOMEN

Ana Carolina Santelli

National Malaria Control Programme, Ministry of Health, Brasília, Brazil

2:30 p.m.

PRESENTATION WRAP-UP, INCLUDING DISCUSSION ON ETHICS, FOLLOWED BY Q&A

Break

Wednesday, November 16, 3:30 p.m. - 4 p.m.

Scientific Session 147

Global Health: Febrile Illness and Malaria

Marriott - Imperial A

Wednesday, November 16, 4 p.m. - 5:45 p.m.

CHAIR

Erin Eckert

United States Agency for International Development, Arlington, VA, United States

Jeremiah Laktabai

Moi University, Eldoret, Kenya

4 p.m.

1835

INTEGRATED PEDIATRIC FEVER MANAGEMENT AND ANTIBIOTIC OVER-TREATMENT IN MALAWI HEALTH FACILITIES: DATA MINING A NATIONAL FACILITY CENSUS

Emily White Johansson¹, Katarina Ekholm Selling¹, Humphreys Nsona², Bonnie Mappin³, Peter W. Gething³, Max Petzold⁴, Stefan Swartling Peterson¹, Helena Hildenwall⁵

¹Uppsala University, Uppsala, Sweden, ²Malawi Ministry of Health, Lilongwe, Malawi, ³University of Oxford, Oxford, United Kingdom, ⁴University of Gothenburg, Gothenburg, Sweden, ⁵Karolinska Institutet, Stockholm, Sweden

4:15 p.m.

1836

VALIDATION OF MATERNAL RECALL OF CARE-SEEKING EVENTS FOR CHILDHOOD ILLNESS IN SOUTHERN PROVINCE, ZAMBIA

Emily Carter¹, Micky Ndhlovu², Emmy Nkhama², Melinda Munos¹, Joanne Katz³, Thomas P. Eisele⁴

¹Institute for International Programs, Johns Hopkins School of Public Health, Baltimore, MD, United States, ²Chainama College of Health Sciences, Lusaka, Zambia, ³Johns Hopkins School of Public Health, Baltimore, MD, United States, ⁴Center for Applied Malaria Research and Evaluation, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

4:30 p.m.

1837

POLYPHARMACY, TREATMENT SEEKING, AND DIAGNOSTIC TESTING IN A POPULATION-BASED SURVEY OF FEBRILE ILLNESS IN WESTERN KENYA

Jeremiah Laktabai¹, Diana Menya¹, Wendy Prudhomme O'Meara²

¹Moi University, Eldoret, Kenya, ²Duke University, Durham, NC, United States

4:45 p.m.

1838

QUALITY IMPROVEMENT STRATEGIES TO MONITOR CHVS MRDT PERFORMANCE: A CASE OF MALARIA TESTING IN WESTERN KENYA

Joseph Kirui¹, Diana Menya², Jeremiah Laktabai², Betty Lelei¹, Adriane Lesser³, Wendy Prudhomme O'Meara³

¹Academic Model Providing Access to Healthcare, Eldoret, Kenya, ²Moi University, Eldoret, Kenya, ³Duke University, Durham, NC, United States

5 p.m.

1839

MISSED OPPORTUNITIES FOR INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY FOR MALARIA: EVIDENCE FROM THE KENYA DEMOGRAPHIC AND HEALTH SURVEY, 2014

Irene Obago¹, Vincent Were², Christopher Nyagol³, Ann M. Buff⁴

¹University of Kabianga, Kericho, Kenya, ²Center for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ³National Malaria Control Programme, Ministry of Health, Kisumu, Kenya, ⁴Division of Parasitic Diseases and Malaria, Center for Global Health, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

5:15 p.m.

1840

IMPLEMENTATION OF SEASONAL MALARIA CHEMOPREVENTION IN THE GAMBIA

Serign Ceesay¹, Eric Hubbard², Kalifa Bojang¹, Balla Kandeh³, Olimatou Kolley³, Huja Jah⁴, Jane Achan¹, Suzanne van Hulle⁵, Lantonirina Razafindralambo⁶, Matthew Cairns⁷, Paul Snell⁷, Paul Milligan⁷

¹MRC Laboratories, Fajara, Gambia, ²CRS, Bamako, Mali, ³National Malaria Control Programme, Banjul, Gambia, ⁴CRS, Banjul, Gambia, ⁵Catholic Relief Services, Baltimore, MD, United States, ⁶Catholic Relief Services, Dakar, Senegal, ⁷London School of Hygiene & Tropical Medicine, London, United Kingdom

5:30 p.m.

1841

A CLUSTER RANDOMIZED TRIAL OF TARGETED BEHAVIOR CHANGE COMMUNICATION USING A MOBILE HEALTH PLATFORM TO INCREASE UPTAKE OF LLINS AMONG PREGNANT WOMEN IN TANZANIA: THE HATI-SALAMA PROJECT

Karen Yeates¹, Jessica Sleeth¹, Eleonora Kinnicutt², Michael Sarco³, Kenneth Nchimbi⁴, Thom Dixon⁵

¹Queen's University, Kingston, ON, Canada, ²Pamoja Tunaweza Women's Centre, Moshi, United Republic of Tanzania, ³Mennonite Economic Development Associates, Bethesda, MD, United States, ⁴Mennonite Economic Development Associates, Dar es Salaam, United Republic of Tanzania, ⁵Mennonite Economic Development Associates, Waterloo, ON, Canada

Symposium 148

Novel Phenotypic and Genotypic Markers of Piperaquine Resistance and Dihydroartemisinin-Piperaquine Treatment Failure in Cambodia

Marriott - Imperial B

Wednesday, November 16, 4 p.m. - 5:45 p.m.

Artemisinin combination therapy (ACT) is recommended worldwide for the treatment of *Plasmodium falciparum* malaria. Dihydroartemisinin-piperaquine (DHA-PPQ), a current frontline ACT in multiple Southeast Asian countries, is now failing in Cambodian provinces where artemisinin resistance has emerged. In Cambodia, recent increases in DHA-PPQ failures and decreases in PPQ susceptibility *in vitro* suggest that PPQ resistance has emerged and is spreading rapidly in the Greater Mekong Subregion (GMS). These findings, and the discovery that PPQ-resistant parasites are sensitive to the former ACT partner drug mefloquine (MQ), have led Cambodia's national malaria control program and the World Health Organization to recommend artesunate-mefloquine (AS-MQ) as the first-line ACT in 10 Cambodian provinces. Molecular markers are urgently needed for use in large-scale surveillance programs to predict DHA-PPQ failures in the GMS, and to investigate the molecular mechanism of PPQ resistance. This symposium will present recently published and unpublished data that define the problem and extent of DHA-PPQ failures; identify new molecular markers that can be readily used to survey the GMS for PPQ resistance; and elucidate the molecular mechanism of PPQ resistance. The first presentation will discuss clinical studies of DHA-PPQ treatment failures and AS-MQ treatment successes, and define the need for a molecular marker of PPQ resistance to guide treatment policies. The next speaker will present a new molecular marker of PPQ resistance, a plasmepsin II-III gene amplification on chromosome 14, which associates with increased parasite survival rates *in vitro* and increased risk of DHA-PPQ failures. The next speaker will present an independent study that identifies this same marker as being associated with elevated PPQ IC50 values *in vitro* and increased risk of DHA-PPQ treatment failure, and will discuss the origin and spread of PPQ resistance in the GMS. The final speaker will present data showing that a variant isoform of the *pfprt* gene can confer *in vitro* resistance to PPQ, and ongoing studies to assess the role of other genetic variants, including plasmepsin II amplification. This symposium will provide the audience with up-to-date information on frontline ACT failure in the GMS, and collaborative efforts to monitor and circumvent this problem.

CHAIR

Rick Fairhurst

National Institutes of Health, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

Didier Menard

Institut Pasteur du Cambodge, Phnom Penh, Cambodia

Wednesday
November 16

4 p.m.

ACT FAILURES IN *PLASMODIUM FALCIPARUM* MALARIA: OPTIONS FOR IMPROVING TREATMENT IN THE GREATER MEKONG SUBREGION

Rick Fairhurst

National Institutes of Health, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

4:25 p.m.

A MOLECULAR MARKER OF PIPERAQUINE-RESISTANT *PLASMODIUM FALCIPARUM* MALARIA

Benoit Witkowski

Institut Pasteur du Cambodge, Phnom Penh, Cambodia

4:50 p.m.

GENETIC MARKERS ASSOCIATED WITH DIHYDROARTEMISININ-PIPERAQUINE FAILURE IN *PLASMODIUM FALCIPARUM* MALARIA

Roberto Amato

Wellcome Trust Sanger Institute, Cambridge, United Kingdom

5:15 p.m.

DISSECTING THE MOLECULAR MECHANISMS OF PIPERAQUINE RESISTANCE

David A. Fidock

Columbia University, New York, NY, United States

Symposium 149

Prospects for Development of Standalone and Combination Vaccines against ETEC

Marriott - Marquis B

Wednesday, November 16, 4 p.m. - 5:45 p.m.

The results of the recent Global Enteric Multicenter Study (GEMS) indicated that ETEC remains an important cause of potentially life-threatening diarrheal illness among infants and young children in developing countries and also contributes to poor physical and cognitive development among children living in endemic areas. Combined with clean water, improved sanitation and expanding rotavirus vaccine coverage, vaccination against a wider array of enteric pathogens represents a key component in ongoing efforts to further reduce the health threat of diarrheal diseases. This symposium will focus on current models of vaccine impact and detail recent progress towards achieving safe, effective and affordable vaccines against ETEC; and finally highlight approaches which may facilitate the development of combination vaccines with better prospects for widespread uptake.

CHAIR

Richard I. Walker

PATH, Washington, DC, United States

Duncan Steele

Bill & Melinda Gates Foundation, Seattle, WA, United States

4 p.m.

BROADER HEALTH AND ECONOMIC IMPACTS OF ETEC AND *SHIGELLA*: IMPLICATIONS FOR A PRO-EQUITY AND PRO-DEVELOPMENT VACCINE

Richard Rheingans

University of Florida, Gainesville, FL, United States

4:20 p.m.

IMMUNOLOGICAL FACTORS CONTRIBUTING TO ENHANCED PROTECTIVE EFFICACY IN VOLUNTEERS IMMUNIZED WITH DMLT ADJUVANTED ACE 527 ETEC VACCINE

Subhra Chakraborty

Johns Hopkins University, Baltimore, MD, United States

4:40 p.m.

MEFA, MULTIEPITOPE FUSION ANTIGEN, A NOVEL APPROACH TO DEVELOP BROADLY PROTECTIVE VACCINES AGAINST ETEC DIARRHEA

Weiping Zhang

Kansas State University College of Veterinary Medicine, Manhattan, KS, United States

5:20 p.m.

PRE-CLINICAL EVALUATION OF COMBINED *SHIGELLA*-ETEC VACCINES

Eileen M. Barry

University of Maryland, Baltimore, MD, United States

Symposium 150

Towards Better Surveillance: Assessing and Building on Routine Systems to Develop Specialized Surveillance Platforms for Elimination

Marriott - Marquis C

Wednesday, November 16, 4 p.m. - 5:45 p.m.

The surveillance system is the backbone of a malaria elimination program, providing information on where parasites can be found in people, where transmission is occurring, how interventions should be targeted, and how regions are progressing towards goals. Many countries are currently transitioning from surveillance systems reporting aggregated case data towards systems that facilitate rapid confirmation, reporting, and investigation of individual cases and enhanced analytic methods to guide decision-making related to anti-malaria interventions. That transition requires navigating a myriad of technological challenges to facilitate accurate collection and analysis of epidemiological intelligence. Data collected or reported through different and fragmented channels must be linked together into unified intelligence systems. Finally, data must be routinely analyzed for programmatic decision-making and appropriate response. This symposium will provide an overview of the technical challenges faced by countries as they are transitioning to an elimination-focused surveillance system, including the development of regional platforms for data collection, and to harmonizing multiple national systems into one cohesive approach. Specific surveillance challenges encountered in elimination countries across southern Africa and southeast Asia will be presented. Presentations from individual countries will cover innovative solutions to issues such as cross-border surveillance of migrants, combining entomological and epidemiological surveillance in one system, and harmonization of multiple legacy surveillance

systems into one comprehensive platform. The symposium will conclude with a Q&A panel discussion with presenters to discuss best practices and novel approaches to developing effective surveillance systems for elimination.

CHAIR

Erin Eckert

President's Malaria Initiative, United States Agency for International Development, Washington, DC, United States

Richard Cibulskis

World Health Organization, Geneva, Switzerland

4 p.m.

TECHNOLOGICAL CHALLENGES PREVENTING MALARIA SURVEILLANCE SYSTEMS FROM EFFECTIVELY SUPPORTING MALARIA ELIMINATION

Arnaud Le Menach

Clinton Health Access Initiative, New York, NY, United States

4:20 p.m.

DEVELOPING CROSS-BORDER SURVEILLANCE WITH A FOCUS ON MOBILE AND MIGRANT POPULATIONS IN THE GREATER MEKONG SUB-REGION

Arantxa Roca-Feltrer

Malaria Consortium, Phnom Penh, Cambodia

4:40 p.m.

IMPROVING THE QUALITY AND TIMELINESS OF MALARIA EPIDEMIOLOGICAL AND ENTOMOLOGICAL DATA COLLECTION AND REPORTING IN THE FIELD: EXPERIENCE FROM A DHIS2 ANDROID APP IN ZIMBABWE

Joseph Mberikunashe

Malaria Control Programme, Ministry of Health and Child Care, Harare, Zimbabwe

5 p.m.

HARMONIZATION OF MULTIPLE INFORMATION SYSTEMS INTO A COMPREHENSIVE SURVEILLANCE PLATFORM IN MADAGASCAR

Yazoume Ye

ICF International, Rockville, MD, United States

Symposium 151

A Shift in Biting Behavior: Outdoor Host-Seeking Behavior of Malaria Vectors and the Potential Impact on Malaria Control

Marriott - Marquis D

Wednesday, November 16, 4 p.m. - 5:45 p.m.

Increased vector control efforts during the last 15 years have drastically reduced malaria infections and deaths. Most malaria vector control programs rely on long-lasting insecticide treated bed nets (LLINs) and/or indoor residual spraying (IRS) of insecticides to protect people and reduce mosquito populations. These vector control tools are largely predicated on the endophagic and endophilic host seeking behavior of malaria vectors. However, the use of these methods has sometimes led to an increase in outdoor host seeking behavior of malaria mosquitoes. It is widely thought that such a behavioral shift may threaten the efficacy of these control methods in the future. Subsequently, it has been suggested that additional tools that specifically target outdoor biting mosquitoes are needed to continue overall reductions in malaria transmission

worldwide, as well as in regions nearing malaria elimination. This symposium will address outdoor host-seeking behavior in *Anopheles* mosquitoes and the risk it poses to malaria control. This session will feature recent examples of increased *Anopheles* outdoor host seeking behavior in the field and explore its genetic basis. It will also discuss the potential effects of outdoor biting on malaria transmission and control, as well as novel vector control strategies that target outdoor host seeking mosquitoes.

CHAIR

Jacob I. Meyers

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

Michel A. Slotman

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

4 p.m.

GLOBAL INCREASE IN EXOPHAGY OF ANOPHELES MALARIA VECTORS: HYPOTHESIS AND EVIDENCE

Jan E. Conn

Wadsworth Center, New York State Department of Health, Albany, NY, United States

4:20 p.m.

GENETIC BASIS OF OUTDOOR HOST SEEKING IN ANOPHELES COLUZZII FROM BOKO ISLAND

Jacob I. Meyers

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

4:40 p.m.

IMPACT OF OUTDOOR BITING ON INFECTION IN HUMANS ON BOKO ISLAND

Immo Kleinschmidt

London School of Hygiene & Tropical Medicine, London, United Kingdom

5 p.m.

MODELING THE IMPACT OF OUTDOOR FEEDING ON MALARIA TRANSMISSION AND ITS CONTROL THROUGH NEW TOOLS

Nakul Chitnis

Swiss Tropical and Public Health Institute, Basel, Switzerland

Symposium 152

Careers in Refugee Health: Case-Based Perspectives and Descriptions

Marriott - Atrium A

Wednesday, November 16, 4 p.m. - 5:45 p.m.

The increasing number of refugees across the globe and the increasing amount of media coverage has raised awareness and piqued interest of potential careers working in refugee health among medical students, residents, fellows and young professionals. With this rising awareness comes many questions: What does working with refugees actually entail? What are the career opportunities? What are the specific areas one can work within the field? Many trainees are not certain about options for careers in international or domestic refugee health. They struggle with being able to identify how to find fulfilling work in global health, particularly if they are based in their country of birth and not able to work internationally.

CHAIR

John Daniel Ballew
University of Rochester Medical Center, Rochester, NY, United States

William Stauffer
University of Minnesota, Minneapolis, MN, United States

4 p.m.

EMERGENCY RESPONSE/RELIEF

Susan Cookson
Centers for Disease Control and Prevention, Atlanta, GA, United States

4:15 p.m.

ORGANIZED REFUGEE RESETTLEMENT

William Stauffer
University of Minnesota, Minneapolis, MN, United States

4:30 p.m.

U.S./DOMESTIC REFUGEE HEALTH

Emily Jentes
Centers for Disease Control and Prevention, Atlanta, GA, United States

Alison Spitz
International Rescue Committee, Atlanta, GA, United States

Ann Settgest
Health Partners Center for International Health, University of Minnesota, St. Paul, MN, United States

Symposium 153

An Integrated Approach to Tropical Dermatology

Marriott - Atrium B

Wednesday, November 16, 4 p.m. - 5:45 p.m.

Neglected tropical diseases (NTDs) represent a diverse group of conditions many of which have manifestations in the skin. With the current appetite to address NTDs in a more integrated way, this symposium will focus on enhancing dermatological diagnostic expertise for the tropical clinician and outline simple cutaneous interventions designed to benefit more than one disease.

CHAIR

Claire Fuller
International Foundation for Dermatology, London, United Kingdom

Gail Davey
Brighton and Sussex Medical School, Brighton, United Kingdom

4 p.m.

CAN A SIMPLE DERMATOLOGICAL ALGORITHM FOR ITCHY NEGLECTED TROPICAL DISEASES SUCH AS SCABIES, SCHISTOSOMIASIS AND ONCHOCERCIASIS GUIDE THE FIELDWORKER TO THE CORRECT INTERVENTION? CAN MDAS IMPROVE MORE THAN ONE DISEASE

Margot Whitfeld
St. Vincents Hospital, Sydney, Australia

4:20 p.m.

A REVIEW OF ULCERS IN THE TROPICS INCLUDING BURULI, YAWS, TROPICAL ULCER AND LEISHMANIASIS AND EXPLORATION OF AN INTEGRATED APPROACH TO INTERVENTION: THE BENEFITS OF GOOD WOUND CARE AFTER APPROPRIATE DISEASE SPECIFIC APPROACH

Rie R. Yotsu
National Centre for Global Health and Medicine, Tokyo, Japan

4:40 p.m.

TRAINING COMMUNITY HEALTH CARE WORKERS: CAN YOU TEACH DERMATOLOGY IN A DAY? EXPERIENCE FROM MEXICO

Roberto Estrada Castanon
Centro de Investigación de Enfermedades Tropicales, Acapulco, Mexico

5 p.m.

POLICY CHANGE TO THE INTEGRATED CONTROL OF SKIN NTDs: A NEW APPROACH TO ADDRESSING BURULI, LEPROSY, LEISHMANIASIS, TROPICAL LYMPHEDEMA, MYCETOMA, SCABIES AND YAWS

Kingsley Asiedu
World Health Organization, Geneva, Switzerland

Symposium 154

The WASH Benefits Study: Cluster-Randomized Trials in Bangladesh and Kenya to Measure the Effects of Individual and Combined Water Quality, Sanitation, Handwashing and Nutrition Interventions on Child Growth and Diarrhea

Marriott - Room A601

Wednesday, November 16, 4 p.m. - 5:45 p.m.

Infection and inadequate diet are proximate risk factors for undernutrition and early life growth faltering; the two processes likely act reciprocally in a vicious cycle that perpetuates physiologic and metabolic deficits, increases the mortality risk, and potentially delays cognitive development. There is limited evidence to determine whether water quality, sanitation, and handwashing (WASH) interventions can improve child growth during the first two years of life and whether nutritional interventions could be enhanced if provided concurrently with WASH interventions. There is also limited evidence about whether combined WASH interventions reduce diarrhea among young children more than single water, sanitation, or handwashing interventions. To help fill this evidence gap, the WASH Benefits study delivered interventions designed to reduce infection and improve nutrition in two cluster-randomized controlled trials in rural Bangladesh and Kenya between 2012 and 2016 (funding: Bill & Melinda Gates Foundation). In each country, geographically matched clusters were randomized to one of six intervention arms: 1) water quality, 2) sanitation, 3) handwashing, 4) nutrition, 5) combined water+sanitation+handwashing 6) nutrition+combined water+sanitation+handwashing; or a double-sized control arm. The interventions included the following hardware and behavior change promotion: Water - chlorine water treatment supplies in both countries and a safe storage vessel in Bangladesh; Sanitation - child potties, sani-scoops to remove feces from household environments, latrine upgrades; Handwashing - handwashing stations, soapy water bottles located at handwashing locations, detergent soap to supply soapy water bottles; Nutrition - Lipid-based Nutrient Supplement (LNS) for children aged 6-24 months and promotion of the exclusive breastfeeding and complementary feeding. Combined arms received hardware for each single arm plus promotion. The trials enrolled pregnant mothers during their second or third trimester and their newborn children (N=5,551 in Bangladesh and N=8,246 in Kenya) and measured outcomes one and two years

after intervention delivery. Primary outcomes included length-for-age Z-scores in children measured at the two-year follow-up and caregiver-reported diarrhea among children <36 months at enrollment. Secondary outcomes included prevalence of stunting, markers of environmental enteropathy, enteric parasite infection, and child development scores (verbal, motor and personal/social). The symposium will include primary outcome results from Bangladesh and preliminary findings from Kenya. These presentations will provide insights into the separate and integrated roles of WASH and nutrition interventions in promoting health and growth in early life.

CHAIR

Jack Colford
University of California Berkeley, Berkeley, CA, United States

4 p.m. OPENING REMARKS AND OVERVIEW OF DESIGN AND GOALS

Jack Colford
University of California Berkeley, Berkeley, CA, United States

4:15 p.m. WASH BENEFITS BANGLADESH

Stephen Luby
Stanford University, Stanford, CA, United States

4:35 p.m. WASH BENEFITS KENYA

Clair Null
Mathematica Policy Research and Innovations for Poverty Action, Washington, DC, United States

4:55 p.m. INTERVENTION IMPACTS ON ANEMIA IN BANGLADESH AND KENYA

Christine Stewart
University of California Davis, Davis, CA, United States

Symposium 155

Fifteen Years of Nipah Virus in Bangladesh: The Latest Findings on Viral Genetics, Transmission in Humans and the Reservoir Host, and Prospects for a Human Vaccine

Marriott - Room A602

Wednesday, November 16, 4 p.m. - 5:45 p.m.

Nipah virus was recently named by the World Health Organization as one of the top ten most dangerous diseases in the world, both because of the high case fatality (>70% in Bangladesh) and its capacity for person-to-person spread. Five countries have previously reported outbreaks of human Nipah virus infection, but Bangladesh is the only country in the world where outbreaks recur each year, posing the risk for emergence of a more highly transmissible strain that could lead to a public health emergency. Scientists from Bangladesh and the international public health community have been working collaboratively for the past 15 years to understand the dynamics of transmission in pteropid bats; the pathways for transmission from bats to people and from person-to-person; and design of interventions to prevent transmission. This symposium will commemorate the 15-year

anniversary of the Nipah story in Bangladesh by presenting the latest research on Nipah virus and closing with a discussion moderated by a leading public health official from Bangladesh on the epidemic potential of Nipah and opportunities for control, including development and use of human vaccines.

CHAIR

Emily S. Gurley
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

Stephen Luby
Stanford University, Stanford, CA, United States

4 p.m. NIPAH VIRUS SERODYNAMICS AND HOST ECOLOGY OF PTEROPUS MEDIUS, BANGLADESH

Jonathan Epstein
EcoHealth Alliance, New York, NY, United States

4:20 p.m. COMPARING THE GENETICS OF NIPAH VIRUSES FROM BATS AND HUMANS IN BANGLADESH

Ziaur Rahman
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

4:40 p.m. NIPAH VIRUS HUMAN TRANSMISSION CHAINS: RISK FACTORS AND OPPORTUNITIES FOR CONTROL

Birgit Nikolay
Institut Pasteur, Paris, France

5 p.m. RVSV NIPAH VACCINE IN HAMSTER AND NONHUMAN PRIMATES

Emmie de Wit
National Institute of Allergy and Infectious Disease, Hamilton, MT, United States

5:20 p.m. DISCUSSION

Mahmudur Rahman
Institute for Epidemiology, Disease Control and Research (IEDCR), Ministry of Health and Family Welfare, Government of Bangladesh, Dhaka, Bangladesh

Scientific Session 156

Malaria: Parasite, Vector and Host Genomics

Marriott - Room A703/A704

Wednesday, November 16, 4 p.m. - 5:45 p.m.

CHAIR

Justin Gibbons
Morsani College of Medicine, University of South Florida, Tampa, FL, United States

Shannon Takala Harrison
University of Maryland School of Medicine, Baltimore, MD, United States

4 p.m.

1842

CONCURRENTLY ESTIMATING THE COMPLEXITY OF INFECTION AND SNP ALLELE FREQUENCY FOR MALARIA PARASITES

Hsiao-Han Chang¹, Colin J. Worby¹, Adoke Yeka², Joaniter Nankabirwa³, Moses R. Kanya³, Sarah G. Staedke⁴, Grant Dorsey⁵, Anna E. Jeffreys⁶, Christina Hubbard⁶, Kirk A. Rockett⁶, Roberto Amato⁶, Dominic P. Kwiatkowski⁶, Caroline Buckee¹, Bryan Greenhouse⁵

¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Makerere University School of Public Health, College of Health Sciences, Kampala, Uganda, ³Department of Medicine, Makerere University College of Health Sciences, Kampala, Uganda, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁵Department of Medicine, University of California San Francisco, San Francisco, CA, United States, ⁶Wellcome Trust Centre for Human Genetics, University of Oxford, Oxford, United Kingdom

4:15 p.m.

1843

USE OF SHARED HAPLOTYPES THAT ARE IDENTICAL-BY-DESCENT TO INFER POPULATION STRUCTURE AND PARASITE MIGRATION WITHIN SOUTHEAST ASIA

Shannon Takala Harrison¹, Amol C. Shetty¹, Christopher G. Jacob², Alexa Machikas¹, Sonia Agrawal¹, Fang Huang¹, David Saunders³, Chanthap Lon⁴, Pascal Ringwald⁵, Kay Thwe Han⁶, Tin Maung Hlaing⁷, Myaing M. Nyunt¹, Tracking Resistance to Artemisinin Collaboration, on (ARC3) Artemisinin Resistance Confirmation Characterizati, (ARCE) Artemisinin Resistance Containment and Elimination, MalariaGEN *Plasmodium falciparum* Community Project, Joana C. Silva¹, Timothy D. O'Connor¹, Christopher V. Plowe¹

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, ⁵World Health Organization, Geneva, Switzerland, ⁶Department of Malaria Research, Ministry of Health, Yangon, Myanmar, ⁷Defence Services Medical Research Centre, Naypyitaw, Myanmar

4:30 p.m.

1844

WHOLE GENOME SEQUENCING USED TO DISTINGUISH *PLASMODIUM VIVAX* RELAPSE FROM REINFECTION AND PRIMAQUINE RESISTANCE IN PERU

Annie Cowell¹, Hugo Valdivia², Sesh Sundararaman³, Elizabeth Loy³, Andres G. Lescano⁴, Christian Baldeviano⁵, Salomon Durand⁵, Vince Gerbasi⁵, Beatrice Hahn³, Elizabeth Winzeler¹

¹University of California San Diego, La Jolla, CA, United States, ²Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ³University of Pennsylvania, Philadelphia, PA, United States, ⁴Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵U.S. Naval Medical Research Unit - 6, Lima, Peru

4:45 p.m.

1845

A GENOME-WIDE ANALYSIS OF RECENT SELECTION IN AFRICAN MALARIA VECTOR POPULATIONS

Nicholas Harding¹, Krzysztof Kozak², Mara Lawniczak², ag1000G consortium

¹University of Oxford, Oxford, United Kingdom, ²WTSI, Cambridge, United Kingdom

5 p.m.

1846

GENOME-WIDE ASSOCIATION STUDY OF SUSCEPTIBILITY TO SEVERE MALARIA IN 17,500 INDIVIDUALS FROM AFRICA, ASIA AND OCEANIA

Gavin Band, MalariaGEN Genomic Epidemiology Network
University of Oxford, Oxford, United Kingdom

5:15 p.m.

1847

COMPARATIVE TRANSCRIPTOME ANALYSIS OF THE HOST RESPONSE IN BLOOD AND SPLEEN DURING THE COURSE OF A *P. CHABAUDI CHABAUDI* INFECTION

John Joseph Valletta¹, Jingwen Lin², Mario Recker¹, Jean Langhorne²

¹University of Exeter, Penryn, United Kingdom, ²The Francis Crick Institute, London, United Kingdom

5:30 p.m.

1848

MELDING CHEMOGENOMICS AND CHEMOINFORMATICS TO DEFINE MALARIA'S DRUGGABLE GENOME

Justin A. Gibbons¹, Kenneth Udenze², Chenqi Wang², Swamy R. Adapa², Min Zhang², Christophe Bodenreiser³, Pablo Bifani³, Thierry Diagana³, John H. Adams², Rays H. Jiang²

¹Morsani College of Medicine, University of South Florida, Tampa, FL, United States, ²Department of Global Health, College of Public Health, University of South Florida, Tampa, FL, United States, ³Novartis Institute for Tropical Diseases Pte. Ltd, Chromos, Singapore

Symposium 157

Poor Quality Medicines - The Third Man Threat (with apologies to Graham Greene)

Marriott - Room A706/A707

Wednesday, November 16, 4 p.m. - 5:45 p.m.

One of literature's most notorious, albeit fictional, criminals was Harry Lime (played by Orson Welles) in the film "The Third Man." After a career trading in fake penicillin, he is killed while escaping in the sewers of Vienna in the late 1940s. Written by Graham Greene, this play is based on the real and vast trade in fake penicillin in chaotic, post-war Europe. Falsified medicines are also a significant problem in today's world – harming patients and negating many of the benefits of modern medical care. Substandard medicines, resulting from unintentional but negligent errors in pharmaceutical manufacture, are also a major issue and may be especially important in engendering anti-microbial and parasitic drug resistance. This symposium will be a vital update for attendees on this neglected but critical and fast moving field. ASTMH is the only international global health meeting that has symposia on this topic and audiences desiring to learn about it have grown substantially. Four novel aspects of medicine quality will be discussed: 1) the wide availability of non-quality assured antimalarials in malarious Africa that risk poor patient outcome and artemisinin resistance (ACT Watch), 2) the challenges and opportunities confronting surveillance of medicines quality in select African countries (USP), 3) the problem of poor quality maternal health medicines, such as oxytocin, that risk poor mother and baby outcomes (WWARN/IDDO), 4) and the latest data on the extent and forensic chemistry of falsified artemisinin combination therapy drugs in sub-Saharan Africa and what is being done to improve antimalarial quality for vulnerable patients (GA Tech and GFATM).

CHAIR

Jim Herrington

University of North Carolina at Chapel Hill, Gillings School of Global Public Health, Chapel Hill, NC, United States

Paul Newton

University of Oxford and LOMWRU, Mahosot Hospital, WWARN/IDDO, Vientiane, Lao People's Democratic Republic

4 p.m.
NON-QUALITY-ASSURED ACT AVAILABILITY AND DISTRIBUTION IN 8 AFRICAN COUNTRIES: 2009-2016

Megan Littre
ACTWatch, Population Services International, Washington, DC, United States

4:20 p.m.
SURVEILLANCE OF MEDICINES QUALITY IN SELECT AFRICAN COUNTRIES: CHALLENGES AND OPPORTUNITIES

Mustapha Hajjou
United States Pharmacopeial Convention, Rockville, MD, United States

4:40 p.m.
INEQUALITY OF MATERNAL AND SEXUAL HEALTH MEDICINES

Celine Cailliet
University of Oxford and LOMWRU, Mahosot Hospital, WWARN/IDDO, Vientiane, Lao People's Democratic Republic

5 p.m.
FORENSIC CHEMISTRY OF FALSIFIED ARTEMISININ COMBINATION THERAPY DRUGS IN SUB-SAHARAN AFRICA

Facundo Fernández
Georgia Institute of Technology, Atlanta, GA, United States

Plenary Session 158

Plenary Session IV: President's Address and Annual Business Meeting

Marriott - Marquis B
Wednesday, November 16, 6:15 p.m. - 7:45 p.m.

CHAIR

David R. Hill
Quinnipiac University, Hamden, CT, United States

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

6:15 p.m.
INTRODUCTION

Brad Schneider
Metabiota, San Francisco, CA, United States

6:30 p.m.
ASTMH: GLOBAL HEALTH IMPACTS FROM ONE CENTURY TO THE NEXT



Stephen Higgs, PhD, FRES, FASTMH
*Associate Vice President for Research
Director, Biosecurity Research Institute
Peine Professor of Biosecurity
University Distinguished Professor, Diagnostic
Medicine and Pathobiology
Kansas State University
Editor-in-Chief, Vector-Borne & Zoonotic
Diseases*

Stephen Higgs, an infectious disease expert with international research experience, became the director of Kansas State's Biosecurity Research Institute in July 2011. He is responsible for oversight, coordination and expansion of the institute's multidisciplinary bio-secure research and education programs for

studies on diseases that impact the global food supply, including those affecting humans, livestock and plants. Dr. Higgs serves as associate vice president for research, holds the Virginia and Perry Peine biosecurity chair and is a university distinguished professor in diagnostic medicine and pathobiology at K-State's College of Veterinary Medicine. He has held positions at the University of Texas Medical Branch, Colorado State University, and Oxford and London in the United Kingdom. Dr. Higgs is an expert in vector biology, arthropod-borne infectious diseases, immune modulation and vaccine evaluation. He is experienced in developing collaborative, multidisciplinary research and education, and has received funding through numerous competitive grants from federal and private organizations, including the Bill & Melinda Gates Foundation. Dr. Higgs has published more than 155 peer-reviewed papers, 16 book chapters and is active with past and ongoing membership on national and international research program review panels. He is a Fellow and current president of the American Society of Tropical Medicine and Hygiene and a fellow of the Royal Entomological Society. He is editor-in-chief of the international journal *Vector-Borne and Zoonotic Diseases*, and an editorial board member of *Biosecurity and Bioterrorism: Biodefense Strategy, Practice and Science*. Dr. Higgs earned a doctorate in parasitology from Reading University in the United Kingdom and a bachelor's of science with honors in zoology from King's College in London.

7 p.m.
ANNUAL BUSINESS MEETING

David R. Hill
Quinnipiac University, Hamden, CT, United States

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

Poster Session C Dismantle

Hilton - Grand Ballroom and Grand Salon
Wednesday, November 16, 7 p.m. - 8 p.m.

Thursday, November 17

Registration

Marriott - Marquis Foyer

Thursday, November 17, 7 a.m. - 10:30 a.m.

Speaker Ready Room

Marriott - International A

Thursday, November 17, 7 a.m. - 10:30 a.m.

Special Interactive Experience: The Refugee Journey to Wellbeing

Marriott - Atrium Foyer

Thursday, November 17, 7:30 a.m. - 11 a.m.

At the end of 2015, there were an estimated 65.3 million people displaced around the world, largely because of extended conflicts in the Middle East, Northern and sub-Saharan Africa, and Asia. The American Society of Tropical Medicine and Hygiene and the U.S. Centers for Disease Control and Prevention (CDC), with participation from a number of domestic and international partners, are hosting this unique interactive experience on refugee health. Through video, photos, live testimonials, hands-on activities and replicated scenes from the field, The Refugee Journey to Wellbeing highlights the clinical and public health aspects of the refugee experience from displacement to resettlement.

Internet Nook

Marriott - Imperial Foyer

Thursday, November 17, 7 a.m. - 10:30 a.m.

Sponsored by Takeda Pharmaceuticals International AG

PREMIER

ASTMH Council Meeting

Marriott - Room A708

Thursday, November 17, 7:30 a.m. - 9:30 a.m.

Symposium 159

New Tools and New Rules for River Blindness Elimination: Where Do We Go from Here?

Marriott - Imperial A

Thursday, November 17, 8 a.m. - 9:45 a.m.

With the publication of new World Health Organization guidelines for stopping mass drug administration (MDA) and for verifying elimination of transmission of onchocerciasis, and following up from the closing of the African Program for Onchocerciasis Control (APOC), a general shift from control programs to elimination programs is being made in the Africa region. These new guidelines utilize newer, more sensitive diagnostics requiring greater scrutiny of existing control programs. New tools have been developed, new ways of thinking have emerged, and the need for local ownership of programs has become critical. Speakers will review the new 2016 WHO guidelines, the

performance of currently available diagnostics for assessing program impact and determining whether it is safe to stop mass drug administration, complementary and alternate strategies for eliminating river blindness, and the development of national river blindness elimination committees.

CHAIR

Adrian D. Hopkins

Mectizan Donation Program, Decatur, GA, United States

Darin A. Evans

United States Agency for International Development, Washington, DC, United States

8 a.m.

INTRODUCTION TO THE NEW WHO GUIDELINES AND GAPS IN THE GUIDANCE

Paul T. Cantey

Centers for Disease Control and Prevention, Atlanta, GA, United States

8:15 a.m.

PERFORMANCE AND SELECTION OF AVAILABLE DIAGNOSTIC TESTS FOR ASSESSING PROGRAMS

Thomas R. Unnasch

Chair, Department of Global Health, University of South Florida, Tampa, FL, United States

8:35 a.m.

COMPLEMENTARY AND ALTERNATIVE TREATMENT STRATEGIES (VECTOR CONTROL)

Moses N. Katabarwa

The Carter Center, Emory University, Atlanta, GA, United States

8:55 a.m.

EMERGENCE AND FUNCTION OF NATIONAL RIVER BLINDNESS ELIMINATION COMMITTEES

Oumer Shafi

Emory University, Rollins School of Public Health, Atlanta, GA, United States

Symposium 160

Zika Virus in Salvador, Brazil and in Puerto Rico

Marriott - Imperial B

Thursday, November 17, 8 a.m. - 9:45 a.m.

Zika virus (ZIKAV) appeared for the first time in the Western Hemisphere in 2015 in Brazil and has since spread to over 30 countries. The Brazil ZIKAV outbreak was temporally associated with a striking rise in microcephalic infant births. Brazil and other Latin American countries with confirmed ZIKAV have also reported a concurrent increased incidence of Guillain Barré Syndrome (GBS). The first case of ZIKAV in Puerto Rico was detected in December 2015, and as of June 23, 2016 there were over 2,100 ZIKV cases including 299 pregnant women. Perspectives on the ZIKAV epidemic will be presented from Salvador, Brazil and from Puerto Rico. Salvador is an epicenter of ZIKAV transmission in Brazil. Brazilian researchers and public health officials from Salvador have collaborated on research which integrates population and individual level epidemiologic data. The first presentation will highlight the temporal distribution and cross correlation of the three outbreaks in Salvador. The impact of these findings on the current understanding of Zika as a determinant factor for the surge in GBS and microcephaly in Brazil will be discussed. The second presentation will highlight Salvador findings regarding risk factors for developing these

complications. Discussion on how this information supports current explanations for both syndromes will follow. The Puerto Rico Department of Health and the Centers for Disease Control and Prevention have partnered to mount a public health response to the ZIKAV outbreak in order to protect to the extent possible pregnant women from ZIKAV infection, and to better understand the effect of ZIKAV infection on birth outcomes, the association with GBS, and the overall burden of morbidity and mortality from ZIKAV. Active monitoring of pregnant women with ZIKAV infection and their infants is being conducted to identify adverse outcomes during pregnancy, the scope of health risks posed by ZIKAV, and to build capacity in Puerto Rico to monitor infant and childhood outcomes. Multi-faceted surveillance systems are being utilized to characterize fully the epidemiology and public health burden of ZIKAV in Puerto Rico. The final presentations will address the epidemiology of ZIKAV in Puerto Rico and the Puerto Rico Zika Active Pregnancy Surveillance System. This symposium aims to encourage discussion on Zika and its complications, the contrast between local and global perspectives, and the challenges in developing sustainable partnerships for long-term research.

CHAIR

Uriel Kitron

Emory University, Atlanta, GA, United States

Stephen Waterman

Centers for Disease Control and Prevention Department, San Juan, PR, United States

8 a.m.

EPIDEMIOLOGICAL TIME SERIES OF ZIKA VIRUS, GUILLAIN-BARRÉ SYNDROME AND MICROCEPHALY

Igor A. Paploski

Institute of Collective Health, Federal University of Bahia, Salvador, Brazil

8:15 a.m.

EPIDEMIOLOGY OF ZIKAV IN PUERTO RICO

Tyler M. Sharp

Centers for Disease Control and Prevention, San Juan, PR, United States

8:35 a.m.

ZIKA CONGENITAL AND GUILLAIN-BARRÉ SYNDROMES ASSOCIATED WITH ZIKA VIRUS EPIDEMICS: RESULTS FROM CASE-CONTROL STUDIES

Mariana Kikuti

Institute of Collective Health, Federal University of Bahia, Salvador, Brazil

8:50 a.m.

PUERTO RICO ZIKA ACTIVE PREGNANCY SURVEILLANCE SYSTEM

Brenda Rivera-Garcia

Puerto Rico Department of Health, San Juan, PR, United States

Scientific Session 161

Mosquitoes: Insecticide Resistance and Control

Marriott - Marquis A

Thursday, November 17, 8 a.m. - 9:45 a.m.

CHAIR

Elizabeth A. McGraw

Monash University, Melbourne, Australia

Alistair Miles

University of Oxford, Oxford, United Kingdom

8 a.m.

1849

HOW PYRETHROIDS RESISTANCE IN *Aedes aegypti* POPULATIONS FROM BRAZIL AFFECTS *Wolbachia* INVASION? EVIDENCES FROM SIMULATIONS AND FIELD RELEASES

Gabriela A. Garcia¹, Rafael M. de Freitas¹, Martha T. Petersen¹, Michael Turelli², Daniel A. Villela¹

¹IOC/Oswaldo Cruz Foundation, Rio de Janeiro, Brazil, ²University of California Davis, Davis, CA, United States

8:15 a.m.

1850

Wolbachia INFECTION DOES NOT AFFECT THE DIVERSITY OF CO-INFECTING NATIVE FLAVIVIRUSES IN ADULT *Aedes aegypti* IN THE FIELD

Hilaria E. Amuzu¹, Cassandra Koh², Rosemarie I. Herbert², Elizabeth A. McGraw²

¹Monash University, Clayton, Victoria, Australia, ²Monash University, Melbourne, Victoria, Australia

8:30 a.m.

1851

LIGHT MANIPULATION OF MOSQUITO BEHAVIOR: ACUTE AND SUSTAINED PHOTIC SUPPRESSION OF BITING IN THE *Anopheles gambiae* MALARIA MOSQUITO

Giles E. Duffield, Aaron D. Sheppard, Samuel S. Rund, Gary F. George, Erin Clark, Dominic Aciri

University of Notre Dame, Notre Dame, IN, United States

8:45 a.m.

1852

ESTIMATION OF ALLELE-SPECIFIC ACE-1 DUPLICATION IN INSECTICIDE-RESISTANT *Anopheles* MOSQUITOES FROM WEST AFRICA

Luc S. Djogbénou¹, Benoît Assogba², John Essandoh³, A.V. Constant Edi³, Martin Akogbeto⁴, Martin Donnelly⁵, David Weetman³

¹Institut Régional de Santé Publique/Liverpool School of Tropical Medicine, Cotonou, Benin, ²Institut Régional de Santé Publique, Cotonou, Benin, ³Department of Vector Biology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁴Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, ⁵Liverpool School of Tropical Medicine/Malaria Programme, Wellcome Trust Sanger Institute, Liverpool, United Kingdom

9 a.m.

1853

INSECTICIDE RESISTANCE AND THE FUTURE OF MALARIA CONTROL

Melinda P. Hadi¹, Duncan K. Athinya¹, Helen Pates Jamet²

¹Vestergaard, Nairobi, Kenya, ²Vestergaard, Washington, DC, United States

9:15 a.m.

1854

THE EMERGENCE AND SPREAD OF INSECTICIDE RESISTANCE MUTATIONS IN *Anopheles gambiae* AND *Anopheles coluzzii*: INSIGHTS FROM DEEP WHOLE-GENOME SEQUENCING OF NATURAL POPULATIONS

Alistair Miles¹, Chris Clarkson², Martin Donnelly³, Dominic Kwiatkowski², The *Anopheles gambiae* 1000 genomes project⁴

¹University of Oxford, Oxford, United Kingdom, ²Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁴Consortium, Multiple, United Kingdom

9:30 a.m.

1855

HOUSEHOLD INTERVENTIONS, EXPENDITURES AND BARRIERS TO *Aedes Aegypti* CONTROL IN MACHALA, ECUADOR

Naveed Heydari¹, Anna M. Stewart Ibarra², David A. Larsen³, Marco V. Neira⁴

¹Colorado School of Public Health, University of Colorado-Denver, Aurora, CO, United States, ²Center for Global Health and Translational Science and Department of Medicine, State University of New York Upstate Medical University, Syracuse, NY, United States, ³Department of Public Health, Food Studies and Nutrition, Syracuse

Symposium 162

Towards Regional Eradication of Malaria in Mesoamerica

Marriott - Marquis C

Thursday, November 17, 8 a.m. - 9:45 a.m.

Eliminating malaria is more feasible in the Americas than anywhere else in the world. In the last decade, malaria incidence in Mesoamerica has decreased by an impressive 85% and countries in the region have recently committed to malaria elimination by 2020. Elimination of malaria from Mesoamerica has the potential to create a stable regional zone within which vertical malaria programs can be integrated into vector-borne disease programs without risk of resurgence. However, despite recent progress and high-level commitment, significant political and operational hurdles jeopardize achievement of this fully obtainable goal. As malaria incidence decreases and other diseases such as dengue or Zika are prioritized, vertical national malaria programs are at risk of being disbanded, with responsibilities spread across several departments. Inadequate surveillance systems reporting aggregated case numbers with sometimes significant delays jeopardize further progress by obscuring where transmission is truly occurring. Interventions are not always sufficiently targeted to the populations most affected, especially in remote areas with predominately indigenous populations. Achieving and sustaining elimination regionally in the short-term will require improved resource efficiency, strengthened surveillance systems, and intensified, highly targeted attack measures in *foci* of transmission. This symposium will provide an overview from country malaria programs and their non-profit and international partners on the progress towards malaria elimination in Mesoamerica and the main remaining challenges. Specific emphasis will be given to how interventions are being targeted to the remaining *foci* of malaria transmission and how strong surveillance systems supporting achievement and maintenance of elimination can be built despite competing priorities. Examples from various countries in the Americas, especially Costa Rica and Honduras, will be presented.

CHAIR

Arnaud Le Menach

Clinton Health Access Initiative, Boston, MA, United States

Roberto Montoya

Pan American Health Organization, Washington, DC, United States

8 a.m.

PROGRESS TOWARDS MALARIA ELIMINATION IN MESOAMERICA AND REGIONAL GUIDE FOR REORIENTING MALARIA CONTROL PROGRAMS TOWARD ELIMINATION

Roberto Montoya

Pan American Health Organization, Washington, DC, United States

8:20 a.m.

TARGETING MALARIA INTERVENTIONS TO THE LAST REMAINING *foci* OF TRANSMISSION IN MESOMERICA AND HISPANIOLA BY ADDRESSING TECHNICAL, OPERATIONAL AND POLITICAL CHALLENGES TO ELIMINATION

Arnaud Le Menach

Clinton Health Access Initiative, Boston, MA, United States

8:40 a.m.

STRENGTHENING THE PERFORMANCE AND EFFICIENCY OF SURVEILLANCE TO ACCELERATE TOWARDS MALARIA ELIMINATION THROUGH SYSTEMATIC CASE-BASED REPORTING IN HONDURAS

Denis Gustavo Escobar

Vigilancia Entomológica, Unidad de Vigilancia de la Salud, Secretaria de Salud, Tegucigalpa, Honduras

9 a.m.

ACHIEVING ZERO LOCAL CASES OF MALARIA AND PREVENTING DISEASE RE-INTRODUCTION: EXPERIENCE FROM THE COSTA RICA MALARIA PROGRAM

Liliana Jimenez

Programa de Vectores, Dirección de la Vigilancia de la Salud, Ministerio de Salud, San Jose, Costa Rica

Scientific Session 163

Water, Sanitation, Hygiene and Environmental Health II

Marriott - Marquis D

Thursday, November 17, 8 a.m. - 9:45 a.m.

CHAIR

Bethany Caruso

Emory University, Atlanta, GA, United States

Repon C. Paul

International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

8 a.m.

1856

RISK FACTORS FOR PEDIATRIC ENTERIC INFECTION IN A LOW-INCOME URBAN NEIGHBORHOOD: EXAMINING THE CONTRIBUTIONS OF THE HOUSEHOLD ENVIRONMENT, NEIGHBORHOOD GEOGRAPHY AND EXPOSURE BEHAVIORS IN VELLORE, INDIA

David Berendes¹, Juan Leon¹, Amy Kirby¹, Julie Clennon¹, Suraja Raj¹, Habib Yakubu¹, Katharine Robb¹, Arun Kartikeyan², Priya Hemavathy², Annai Gunasekaran², Ben C. Ghale², J. Senthil Kumar², Venkata R. Mohan², Gagandeep Kang², Christine Moe¹

¹Emory University, Atlanta, GA, United States, ²Christian Medical College, Vellore, India

8:15 a.m.

1857

ASSESSING SEROCONVERSION AGAINST ENTERIC PATHOGENS RELATIVE TO REPORTED DIARRHEA AND THE RECEIPT OF A POINT-OF-USE WATER FILTER IN WESTERN PROVINCE, RWANDA

Laura D. Zambrano¹, Miles Kirby², Ghislaine Rosa², Corey Nagel³, Thomas F. Clasen¹

¹Emory University, Atlanta, GA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Oregon Health and Science University, Portland, OR, United States

8:30 a.m.

1858

ASSESSING USE, EXPOSURE AND HEALTH IMPACTS OF AN ADVANCED WATER FILTER AND ADVANCED COOKSTOVE DISTRIBUTION PROGRAM IN RURAL RWANDA

Miles A. Kirby¹, Corey Nagel², Ghislaine Abadie Rosa¹, Evan A. Thomas³, Thomas F. Clasen⁴

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Oregon Health & Science University, Portland, OR, United States, ³Portland State University, Portland, OR, United States, ⁴Emory Rollins School of Public Health, Atlanta, GA, United States

8:45 a.m.

1859

ENVIRONMENTAL EXPOSURE OF RURAL BANGLADESHI CHILDREN 3-18 MONTHS OLD FROM HAND- AND OBJECT-MOUTHING

Laura H. Kwong¹, Ayse Ercumen², Amy J. Pickering¹, Leanne Unicomb³, Jennifer Davis¹, Stephen P. Luby¹

¹Stanford University, Stanford, CA, United States, ²University of California Berkeley, Berkeley, CA, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

9 a.m.

1860

INCIDENCE OF ADULT DEATHS ASSOCIATED WITH HEPATITIS E VIRUS IN BANGLADESH

Repon C. Paul¹, Arifa Nazneen², Kajal Chandra Banik², Shariful Amin Sumon², Kishor Kumar Paul², Hossain M S. Sazzad², Manjur Hossain Khan Jony³, M. Salim Uzzaman³, Mahmudur Rahman³, Stephen P. Luby⁴, Heather Gidding¹, Andrew Hayen¹, Emily S. Gurley²

¹UNSW, Sydney, Australia, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³IEDCR, Dhaka, Bangladesh, ⁴Stanford University, Stanford, CA, United States

9:15 a.m.

1861

WOMEN'S SANITATION EXPERIENCES ARE ASSOCIATED WITH MENTAL HEALTH IN RURAL, ODISHA INDIA

Bethany A. Caruso, Hannah L. Cooper, Regine Haardoefer, Craig Hadley, Kathryn Yount, Thomas Clasen

Emory University, Atlanta, GA, United States

9:30 a.m.

1862

THE IMPACT OF SANITATION INTERVENTIONS ON LATRINE COVERAGE AND USE: A SYSTEMATIC REVIEW AND META-ANALYSIS

Joshua V. Garn, Matthew C. Freeman, Gloria D. Sclar, Patrick Brooks, Thomas Clasen

Emory University, Atlanta, GA, United States

Scientific Session 164

Intestinal and Tissue Helminths: Soil-Transmitted Helminths – Biology and Immunology

Marriott - Room M103/M104/M105

Thursday, November 17, 8 a.m. - 9:45 a.m.

CHAIR

James B. Lok

University of Pennsylvania, Philadelphia, PA, United States

Andrew Williams

University of Copenhagen, Frederiksberg C, Denmark

8 a.m.

1863

DISCOVERING AND OPTIMIZING BROAD-BASED ANTHELMINTICS USING PAN-PHYLUM ANALYSIS OF METABOLIC CHOKEPOINTS

Rahul Tyagi¹, Ryan Chugani², Mostafa Elfawal³, Chelsea Bidlow⁴, Bruce A. Rosa¹, Scott Wildman⁵, Raffi Aroian³, Paul Brindley⁶, Judy Sakanari⁴, James W. Janetka², Makedonka Mitreva¹

¹McDonnell Genome Institute, Washington University in St. Louis, St. Louis, MO, United States, ²Department of Biochemistry and Molecular Biophysics, Washington University in St. Louis, St. Louis, MO, United States, ³University of Massachusetts Medical School, Worcester, MA, United States, ⁴Department of Pharmaceutical Chemistry, University of California San Francisco, San Francisco, CA, United States, ⁵University of Wisconsin Carbone Cancer Center, Madison, WI, United States, ⁶School of Medicine and Health Sciences, George Washington University, Washington, DC, United States

8:15 a.m.

1864

TRANSGENESIS IN *STRONGYLOIDES*: FREE-LIVING MALE WORMS AS TARGETS FOR GENE TRANSFER AND TRANSGENE PROPAGATION

James B. Lok, Hongguang Shao, Xinshe Li

University of Pennsylvania, Philadelphia, PA, United States

(ACMCIP Abstract)

8:30 a.m.

1865

MODULATION OF HUMAN DENDRITIC CELL ACTIVITY BY THE HELMINTH PARASITE *ASCARIS SUUM*

Andrew R. Williams, Helene L. Midttun, Sara Almeida, Peter Nejsum

University of Copenhagen, Frederiksberg C, Denmark

(ACMCIP Abstract)

8:45 a.m.

1866

GUT MICROBIOME CHANGES INDUCED BY EXPERIMENTAL *T. MURIS* INFECTION ARE ASSOCIATED WITH DECREASED COGNITIVE FUNCTION IN MICE

Ricardo J. Soares Magalhães¹, Paul Giacomini², Zoltan Sarnyay³, Ann Kraeuter³, Tim Ulrich⁴, Mia Bengtsson⁴, Shuting Jin⁵, Eduardo A. Albornoz⁶, Richard Gordon⁶, Trent Woodruff⁶

¹UQ Child Health Research Centre, The University of Queensland, South Brisbane, Australia, ²Australian Institute of Tropical Health and Medicine, James Cook University, Cairns Campus, Smithfield, Australia, ³Laboratory of Psychiatric Neuroscience, Australian Institute of Tropical Health and Medicine, James Cook University, Townsville Campus, Townsville, Australia, ⁴Institute of Microbiology, University of Greifswald, Greifswald, Germany, ⁵UQ School of Veterinary Science, The University of Queensland, Gatton, Australia, ⁶School of Biomedical Sciences, The University of Queensland, St. Lucia, Australia

(ACMCIP Abstract)

9 a.m.

1867

ASSESSING THE IMPACT OF MASS DEWORMING ON CO-INFECTIONS WITH OTHER PARASITES AND COMMENSALS USING MOLECULAR TECHNIQUES

Alice V. Easton¹, Conrad Shyu¹, Charles S. Mwandawiro², Sammy M. Njenga², Jimmy H. Kihara², Cassian Mwatele², Mariam Quinones¹, Jacquice Davis¹, Yasmine Belkaid¹, Rita G. Oliveira³, Poppy H. Lamberton³, Roy M. Anderson³, Thomas B. Nutman¹

¹National Institutes of Health, Bethesda, MD, United States, ²Eastern and Southern Africa Centre of International Parasite Control, KEMRI, Nairobi, Kenya, ³Imperial College London, London, United Kingdom

9:15 a.m.

1868

CONTROLLED HUMAN HOOKWORM INFECTION MODEL FOR TESTING THE EFFICACY OF EXPERIMENTAL HOOKWORM VACCINES

David Diemert¹, Maria Zumer¹, Doreen Campbell¹, Caitlyn Leasure¹, Landria Sheffey¹, Melissa Keany¹, Jill Brelsford¹, Anna Yakovleva¹, Rojelio Mejia², David Pritchard³, John Hawdon¹, Jeffrey Bethony¹

¹George Washington University, Washington, DC, United States, ²Baylor College of Medicine, Houston, TX, United States, ³University of Nottingham, Nottingham, United Kingdom

9:30 a.m.

1869

PHASE 1 TESTING OF THE NA-APR-1/ALYDROGEL HOOKWORM VACCINE IN HEALTHY, HOOKWORM-NAIVE ADULTS

David Diemert¹, Maria Zumer¹, Aimee Desrosiers¹, Doreen Campbell¹, Shannon Grahek¹, Jill Brelsford¹, Anna Yakovleva¹, Maria Elena Bottazzi², Peter Hotez², Jeffrey Bethony¹

¹George Washington University, Washington, DC, United States, ²Baylor College of Medicine, Houston, TX, United States

Symposium 165

Clinical Update - What's New in Literature?

Marriott - Atrium B

Thursday, November 17, 8 a.m. - 9:45 a.m.

Clinicians in tropical medicine and travelers' health base their decisions on the knowledge of disease epidemiology, clinical course, diagnostic tools, resistance patterns, and vaccine safety data. This symposium will highlight recent studies on these aspects of dengue, leishmaniasis, chikungunya and malaria.

CHAIR

Lin H. Chen

Travel Medicine Center, Mount Auburn Hospital, Cambridge, MA, United States

Davidson H. Hamer

Boston University, Center for International Health and Development, Boston, MA, United States

8 a.m.

DENGUE

Mary E. Wilson

Harvard T.H. Chan School of Public Health, University of California San Francisco, San Francisco, CA, United States

8:25 a.m.

LEISHMANIASIS

Andrea K. Boggild

Toronto General Hospital, University of Toronto, Toronto, ON, Canada

8:50 a.m.

ZIKA

Susan Hills

Centers for Disease Control and Prevention, Fort Collins, CO, United States

9:15 a.m.

MALARIA

Johanna P. Daily

Albert Einstein College of Medicine, Bronx, NY, United States

Scientific Session 166

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Helminths - Immunology

Marriott - Room A601

Thursday, November 17, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Britt Andersen

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

Mario A. Jiz

Research Institute for Tropical Medicine, Muntinlupa City, Philippines

8 a.m.

1937

ENDOGENOUS PHOSPHOLIPASE A2 GROUP 1B (PLA2G1B) HAS DIRECT ANTI-HELMINTH PROPERTIES AND IS ESSENTIAL FOR IMMUNITY TO *HELIGMOSOMOIDES POLYGYRUS*

Lewis Entwistle¹, Victoria S. Pelly¹, Stephanie M. Coomes¹, Yashaswini Kannan¹, Jimena Perez-Lloret¹, Nikolay Nikolov¹, Helena Helmbly², David Hui³, Mark S. Wilson¹

¹The Francis Crick Institute, Mill Hill Laboratory, London, United Kingdom,

²Immunology and Infection Department, London School of Hygiene and Tropical Health, London, United Kingdom,

³Department of Pathology, Metabolic Diseases Institute, University of Cincinnati College of Medicine, Cincinnati, OH, United States

8:15 a.m.

1870

IMPAIRED NEUTROPHIL RECRUITMENT TO INVADING *LITOMOSOIDES SIGMODONTIS* L3 LARVAE LEADS TO AN INCREASED WORM BURDEN IN NOD2 RECEPTOR AND IL-6 DEFICIENT MICE

Jesuthas Ajendra, Sabine Specht, Sebastian Ziewer, Muhsin Muhsin, Kenneth Pfarr, Andrea Schiefer, Katrin Gentil, Achim Hoerauf, Marc P. Hübner

University Hospital of Bonn, Bonn, Germany

(ACMCIP Abstract)

8:30 a.m.

1871

MICROFILARIAE OF *BRUGIA MALAYI* INDUCES AUTOPHAGY THROUGH THE INDUCTION OF INDOLEAMINE 2,3-DIOXYGENASE (IDO) AND INTERFERON- γ (IFN- γ)

Prakash Babu Narasimhan, Leor Akabas, Thomas B Nutman, Roshanak Tolouei Semnani

National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

8:45 a.m.

1872

IMPACT OF MATERNAL PRAZIQUANTEL TREATMENT DURING PREGNANCY ON OFFSPRING IMMUNE RESPONSES TO SCHISTOSOME ANTIGENS AT SIX YEARS OF AGE IN LEYTE, PHILIPPINES: RESULTS FROM A RANDOMIZED CONTROLLED TRIAL

Mario A. Jiz¹, Luz P. Acosta¹, Palmera Baltazar¹, Blanca Jarilla¹, Veronica Tallo¹, Marianne Sagliba¹, Amabelle Moreno¹, Maripaz Urbina¹, Archie Pablo¹, Remigio Olveda¹, Hannah Wu², Jonathan Kurtis², Jennifer Friedman²

¹Research Institute for Tropical Medicine, Muntinlupa City, Philippines, ²Center for International Health Research, Rhode Island Hospital, Providence, RI, United States

(ACMCIP Abstract)

9 a.m.

1873

EFFECT OF PRENATAL EXPOSURE TO SCHISTOSOMIASIS AND CO-INFECTIONS WITH SCHISTOSOMIASIS ON FETAL IMMUNE RESPONSES

Ruth K. Nyakundi¹, Ronald K. Otchicho², Francis Mutuku², Desiree LaBeaud³, Charles H. King⁴, Indu Malhotra⁴

¹Institute of Primate Research, Nairobi, Kenya, ²Division of Vector Borne and Neglected Tropical Diseases, Ministry of Public Health and Sanitation, Nairobi, Kenya,

³Stanford School of Medicine, Stanford, CA, United States, ⁴Case Western Reserve University, Centre for Global Health and Diseases, Cleveland, OH, United States

(ACMCIP Abstract)

9:15 a.m.

1874

LYMPHATIC FILARIASIS: HOST AND PARASITE FACTORS AND THE PATHOGENESIS OF SYSTEMIC ADVERSE EVENTS FOLLOWING TREATMENT

Britt Andersen¹, Jessica Kumar², Christopher L. King², Peter Uwe Fischer¹, Gary J. Weil¹

¹Washington University School of Medicine, St. Louis, MO, United States, ²Case Western Reserve University, Cleveland, OH, United States

9:30 a.m.

1875

ONCHOCERCA VOLVULUS ANTIGEN PEPTIDE IMMUNOREACTIVITY DISTINGUISHES PARASITE POPULATIONS IN THE AMERICAS, WEST AFRICA, CENTRAL AFRICA AND EAST AFRICA

Carmelle T. Norice-Tra¹, Jose Ribeiro¹, Sasi Bennuru¹, Rahul Tyagi², Makedonka Mitreva², Thomas B. Nutman¹

¹National Institutes of Health, Bethesda, MD, United States, ²Washington University School of Medicine, St. Louis, MO, United States

(ACMCIP Abstract)

Symposium 167

Ending Preventable Maternal and Child Deaths Due to Tuberculosis

Marriott - Room A602

Thursday, November 17, 8 a.m. - 9:45 a.m.

Tuberculosis (TB), in 2014, has surpassed HIV as the main infectious cause of death and remains the leading cause of death among people living with HIV. An estimated one million of the almost ten million new cases of TB each year are children; at least 136,000 of these children die, with the majority undiagnosed or mis-diagnosed as other common childhood condition such as pneumonia or malnutrition. TB is also a major contributor to morbidity and mortality among pregnant women, especially

HIV-infected pregnant women, who are more likely to transmit HIV (as well as TB) to their infants than HIV-infected women without TB disease. Addressing TB in key programs targeting women, children and adolescents, especially at the community and primary care level, will strengthen integrated service delivery, bring mutual benefits and, most of all, improve outcomes for patients and their families. The symposium will provide key data and evidence around maternal and childhood TB and TB/HIV, including the contribution to overall morbidity and mortality for women and children. It will provide examples of how specific high TB-burden countries are developing integrated TB, HIV and MNCH services, and share a global action plan on TB integration.

CHAIR

Anne K. Detjen

UNICEF, New York, NY, United States

Surbhi Modi

Centers for Disease Control and Prevention, Atlanta, GA, United States

8 a.m.

ENDING PREVENTABLE MATERNAL AND CHILD DEATHS – LET'S NOT FORGET ABOUT TB

Surbhi Modi

Centers for Disease Control and Prevention, Atlanta, GA, United States

8:20 a.m.

PROMISING PRACTICES FOR TB AND TB/HIV CASE FINDING IN PRIMARY CARE SERVICES

Jesca Nsungwa Sabiiti

Child Health Division, Ministry of Health, Kampala, Uganda

8:40 a.m.

IT'S ALL ABOUT SYSTEMS: INTEGRATED COMMUNITY AND PRIMARY CARE FOR FAMILIES AFFECTED BY TB

Anne K. Detjen

UNICEF, New York, NY, United States

9 a.m.

DEVELOPING TOOLS TO SUPPORT FOR INTEGRATION: EXPERIENCE FROM PILOT STUDY IN ETHIOPIA

Avinash Kanchar

Global TB Programme, World Health Organization, Geneva, Switzerland

Scientific Session 168

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria - Biology and Pathogenesis

Marriott - Room A703/A704

Thursday, November 17, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Daniel Y. Bargieri

University of Sao Paulo, Sao Paulo, Brazil

Matthew Dixon

University of Melbourne, Melbourne, Australia

8 a.m.

1938

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2016. SEE THE PROGRAM UPDATE FOR SPEAKER INFORMATION.

8:15 a.m.

1939

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2016. SEE THE PROGRAM UPDATE FOR SPEAKER INFORMATION.

8:30 a.m.

1876

HAPLOTYPES WITHIN NFKBIA PROMOTER ARE ASSOCIATED WITH SEVERE MALARIAL ANEMIA AND CIRCULATING IL-10 AND IP-10 LEVELS IN CHILDREN WITH *P. FALCIPARUM* MALARIA

Elly O. Munde¹, Angela O. Achieng¹, Lily E. Kisia¹, Zachery S. Karim¹, Evans O. Raballah², Prakasha Kempaiah¹, John M. Ong'echa¹, Collins Ouma³, Douglas J. Perkins¹

¹University of New Mexico School of Medicine, Albuquerque, NM, United States,

²Department of Medical Laboratory Sciences, Kakamega, Kenya, ³Department of Biomedical Sciences and Technology, Maseno, Kenya

8:45 a.m.

1877

PLASMODIUM MTRAP IS ESSENTIAL FOR GAMETE EGRESS AND PARASITE TRANSMISSION TO MOSQUITOES

Daniel Y. Bargieri¹, Sabine Thiberge², Chwen Tay³, Alison F. Carey², Ursula Straschil³, Alice Rantz², Audrey Lorthois⁴, Florian Hischen⁵, Takafumi Tsuboi⁶, Tony Trigilia⁷, Pietro Alano⁸, Alan Cowman⁷, Jake Baum³, Gabriele Pradel⁵, Catherine Lavazec⁴, Robert Ménard²

¹University of Sao Paulo, Sao Paulo, Brazil, ²Institut Pasteur, Paris, France, ³Imperial College, London, United Kingdom, ⁴Institut Cochin, Paris, France, ⁵Aachen University, Aachen, Germany, ⁶Ehime University, Ehime, Japan, ⁷Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ⁸Istituto Superiore di Sanità, Rome, Italy

9 a.m.

1878

PROFILING GENE EXPRESSION IN A PHASE II *PLASMODIUM VIVAX* IRRADIATED SPOROZOITE VACCINE TRIAL

Monica L. Rojas-Peña¹, Dalia Ararat¹, Myriam Arévalo-Herrera², Sócrates Herrera³, Juan M. Vásquez³, Greg Gibson¹

¹Center for Integrative Genomics, School of Biology, Georgia Institute of Technology, Atlanta, GA, United States, ²School of Health, Universidad del Valle, Cali, Colombia,

³Caucaseco Scientific Research Center (CSRC), Cali, Colombia

9:15 a.m.

1879

HIGH-THROUGHPUT GENOMIC SURVEILLANCE OF *PLASMODIUM* INFECTIONS IN INDIA

Pavitra N. Rao¹, Swapna Uplekar¹, Prashant K. Mallick², Nabamita Bandyopadhyay², Sonal Kale², Nicholas J. Hathaway³, Alex Eapen⁴, Ranvir Singh⁵, Khageswar Pradhan⁶, Jeffrey A. Bailey³, Om P. Singh⁷, Jane M. Carlton¹

¹New York University, New York, NY, United States, ²National Institute of Malaria Research, New Delhi, India, ³University of Massachusetts, Worcester, MA, United States, ⁴National Institute of Malaria Research, Chennai, India, ⁵National Institute of Malaria Research, Nadiad, India, ⁶National Institute of Malaria Research, Raurkela, India, ⁷National Institute of Malaria Research, Delhi, India

9:30 a.m.

1880

REVERSIBLE HOST CELL REMODELING UNDERPINS DEFORMABILITY CHANGES IN MALARIA PARASITE SEXUAL BLOOD STAGES

Megan Dearnley¹, Chu Trang², Yao Zhang³, Oliver Looker¹, Changjin Huang³, Nectarios Klonis¹, Jeff Yeoman⁴, Mohit Arora², James Osborne⁵, Rajesh Chandramohanadas², Sulin Zhang³, Leann Tilley¹, **Matthew Dixon¹**

¹Department of Biochemistry and Molecular Biology, Bio21 Institute, The University of Melbourne, Melbourne, Australia, ²Pillar of Engineering Product Development, Singapore University of Technology & Design, Singapore, Singapore, ³Department of Engineering Science and Mechanics, The Pennsylvania State University, University Park, PA, United States, ⁴Department of Biochemistry, La Trobe University, Melbourne, Australia, ⁵School of Mathematics and Statistics, The University of Melbourne, Melbourne, Australia

Scientific Session 169

Malaria: Control Interventions - Assessment of Quality and Effectiveness

Marriott - Room A706/A707

Thursday, November 17, 8 a.m. - 9:45 a.m.

CHAIR

Stefan Kappe

Center for Infectious Disease Research, Seattle, WA, United States

Jean-Yves Mukamba

PATH, Kinshasa/Gombe, Democratic Republic of the Congo

8 a.m.

1881

SPATIAL HETEROGENEITY CAN UNDERMINE THE EFFECTIVENESS OF COUNTRY-LEVEL TEST AND TREAT POLICY FOR MALARIA: A CASE STUDY FROM BURKINA FASO USING RDT AND HEMOGLOBIN

Denis Valle, Justin Millar, Punam Amratia

University of Florida, Gainesville, FL, United States

8:15 a.m.

1882

IMPROVING THE QUALITY OF MALARIA CASE MANAGEMENT IN PUBLIC HEALTH FACILITIES - THE MALARIACARE EXPERIENCE IN WESTERN KENYA

Beatrice Onyando¹, Samwell Onditi¹, Rodgers Mwinga¹, Tiffany Clark², Illah Evance¹, Sarah Burnett², Troy Martin²

¹PATH, Kisumu, Kenya, ²PATH, Washington, DC, United States

8:30 a.m.

1883

FINDINGS FROM THE FIRST MALARIA MOLECULAR EQA SCHEME LAUNCHED BY UK NEQAS (UNITED KINGDOM NATIONAL EXTERNAL QUALITY ASSESSMENT SERVICE) PARASITOLOGY

Jaya Shrivastava¹, Agatha C. Saez¹, Monika Manser¹, Debbie Nolder², Spencer Polley³, Peter L. Chiodini³

¹Public Health England, London, United Kingdom, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Hospital for Tropical Diseases, London, United Kingdom

8:45 a.m.

1884

BUILDING A SYSTEM OF QUALITY ASSURED MALARIA CASE MANAGEMENT IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Jean-Yves Mukamba¹, André Bope Bope², Annie Ndaya B³, Eric Swedberg⁴, Troy Martin⁵

¹PATH, Kinshasa/Gombe, Democratic Republic of the Congo, ²PSI, Kinshasa/Gombe, Democratic Republic of the Congo, ³National Program on Diarrhea Prevention, Kinshasa/Gombe, Democratic Republic of the Congo, ⁴Save the Children, Fairfield, CT, United States, ⁵PATH, Seattle, WA, United States

9 a.m.

1885

SHIFTING THE PARADIGM: WHAT CAN BE DONE TO PROTECT COMMUNITIES AGAINST THE THREAT OF SUBSTANDARD AND FALSIFIED MALARIA MEDICINES?

Nan Lewicky, Corinne M. Fordham, Cheryl Lettenmaier

Johns Hopkins University, Baltimore, MD, United States

9:15 a.m.

1886

ANALYSIS OF ULTRA LOW COST NEAR-INFRARED SPECTROMETERS FOR DRUG AND BED NET QUALITY MONITORING

Benjamin K. Wilson¹, Anthony Lozama¹, Celina Schocken², Elizabeth L. Allen³, David Bell², Harparkash Kaur³

¹Intellectual Ventures Laboratory, Bellevue, WA, United States, ²Global Good, Bellevue, WA, United States, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

9:30 a.m.

1887

MALARIA INTERVENTION ASSESSMENT IN FOUR STATES OF NIGERIA: AN INNOVATIVE, COMPREHENSIVE, MIXED-METHODS EVALUATION

Ana Claudia Franca-Koh¹, Uwem Inyang², Festus Okoh³, Taiwo Orimogunje³, Lanre Adesoye¹, Balarabe Ibrahim¹, Abimbola Olayemi¹, Mariam Wahab¹, Tajrina Hai¹, Nnenna Ezeigwe³, Perpetua Uhomoibhi³, Timothy Obot³, Olufemi Ajumobi³, Jessica Margaret Kafuko², Richard W. Niska², Abidemi Okechukwu², Yazoume Ye¹

¹MEASURE Evaluation/ICF International, Rockville, MD, United States, ²U.S. President's Malaria Initiative/Nigeria, Abuja, Nigeria, ³National Malaria Elimination Programme, Abuja, Nigeria

Coffee Break

Marriott – Marquis Foyer

Thursday, November 17, 9:45 a.m. - 10:15 a.m.

Symposium 170

Making Money Matter: Cost-Effectiveness and NTD Interventions

Marriott - Imperial A

Thursday, November 17, 10:15 a.m. - Noon

Global progress towards the control and elimination of neglected tropical diseases (NTDs) will be measured under the new Sustainable Development Goal 3 which aims to “Ensure healthy lives and promote well-being for all at all ages” by 2030. As infection with NTDs is an indicator for poverty, reaching universal coverage for these diseases by 2030 will be a measure of the success of universal health coverage in reaching the poorest of the poor. Achieving these goals requires significant investment and an increase in domestic investment from within endemic

countries. To enable all investors, including endemic country governments, to understand the size of investment required and how to most appropriately allocate resources, requires robust data which can be benchmarked across countries. These data include unit costs and cost drivers for current preventive chemotherapy (PC) and vector control interventions, estimates of benefits in terms of disability-adjusted life years (DALYs) to enable comparisons across the health sector and projections of what is required to control and eliminate the NTDs. The goal of the symposium is to present evidence on the costs and benefits of implementation strategies for NTDs. The first presentation will explore the domestic resource mobilization efforts for NTD programs and the trend of domestic investments in the past ten years. It will also examine the challenges and ways to mitigate obstacles to mobilizing resources in endemic countries. The second presentation will present work using a transmission model to further investigate the impact and potential cost-effectiveness of expanding the target population for treatment of SCH in a range of different settings. The implications on achievement of the WHO 2020 control and elimination targets for SCH will be addressed. The third presentation will focus on the added value of PC using praziquantel against SCH, on *Taenia solium* taeniosis/cysticercosis, the leading cause of preventable epilepsy globally. The cost-effectiveness of PC with praziquantel in areas co-endemic for both SCH and *T. solium* will be elucidated both in terms of taeniosis and porcine cysticercosis and different MDA schemes will be compared using incremental cost-effectiveness ratio. The final presentation will explore the significant cost savings of integrating PC for NTDs and report on the economic cost per case and DALYs averted. The presentation will conclude by taking into consideration the conclusions from the previous speakers and the implications on reaching 2020 and 2030 goals.

CHAIR

Wendy E. Harrison

Schistosomiasis Control Initiative, Imperial College London, London, United Kingdom

Christopher Fitzpatrick

World Health Organization, Geneva, Switzerland

10:15 a.m.

EXPANDING THE NTD FISCAL SPACE TO DOMESTIC RESOURCES

Uzoma Nwankwo

Federal Ministry of Health, Abuja, Nigeria

10:35 a.m.

EVALUATING THE IMPACT AND COST-EFFECTIVENESS OF COMMUNITY-WIDE TREATMENT FOR SCHISTOSOMIASIS – NO SIMPLE ANSWER

Hugo Turner

Imperial College, London, United Kingdom

10:55 a.m.

COST-EFFECTIVENESS OF AN INTEGRATED INTERVENTION STRATEGY ON TAENIA SOLIUM IN TANZANIA

Uffe Christian Braae

University of Copenhagen, Copenhagen, Denmark

Thursday
November 17

11:15 a.m.

MORE HEALTH FOR LESS MONEY: INTEGRATED PREVENTIVE CHEMOTHERAPY FOR NTD CONTROL

Fiona Fleming

Imperial College, London, United Kingdom

Scientific Session 171

Virology: Other Viruses

Marriott - Imperial B

Thursday, November 17, 10:15 a.m. - Noon

CHAIR

Daniel Olson

University of Colorado School of Medicine, Aurora, CO, United States

Kate Zinszer

Boston Children's Hospital, Boston, MA, United States

10:15 a.m.

1888

RAPID ACTIVE SEROPREVALENCE SURVEYS AS A TOOL TO MEASURE NOROVIRUS DISEASE BURDEN IN RESOURCE-LIMITED SETTINGS

Daniel Olson¹, Molly M. Lamb², Alma Zacarias³, Maria Renee Lopez⁴, Maria Alejandra Paniagua⁵, Gabriela Samayoa-Reyes⁶, Ricardo Zambrano⁷, Sergio Rodriguez⁷, Celia Cordon-Rosales⁴, Edwin Asturias¹

¹University of Colorado School of Medicine and Public Health, Aurora, CO, United States, ²University of Colorado School of Public Health, Aurora, CO, United States,

³Fundacion para la Salud Integral de los Guatemaltecos, La Blanca, Guatemala,

⁴Universidad del Valle de Guatemala, Guatemala City, Guatemala, ⁵University

of Pennsylvania Perelman School of Medicine, Philadelphia, PA, United States,

⁶University of Colorado School of Medicine, Aurora, CO, United States, ⁷Integra IT,

Bogota, Colombia

10:30 a.m.

1889

HIGH HEPATITIS E SEROPREVALENCE AMONG DISPLACED PERSONS IN SOUTH SUDAN: EVIDENCE OF UNDETECTED TRANSMISSION AND IMPLICATIONS FOR VACCINATION

Andrew S. Azman¹, Malika Bouhenia², Anita S. Iyer³, John Rumunu⁴, Lul L. Deng⁴, Joseph F. Wamala⁵, Etienne Gignoux⁶, Francisco J. Luquero⁷, Daniel T. Leung³, Emily S. Gurley⁸, Iza Ciglenecki⁹

¹Johns Hopkins School of Public Health, Baltimore, MD, United States, ²World Health Organization, Geneva, Switzerland, ³Department of Internal Medicine, Division of Infectious Diseases, University of Utah School of Medicine, Salt Lake City, UT, United States, ⁴South Sudan Ministry of Health, Juba, South Sudan,

⁵World Health Organization, Juba, South Sudan, ⁶Epicentre, Geneva, Switzerland,

⁷Epicentre, Paris, France, ⁸International Centre for Diarrhoeal Disease Research,

Bangladesh, Dhaka, Bangladesh, ⁹Médecins Sans Frontières, Geneva, Switzerland

10:45 a.m.

1890

POSSIBLE HIGH EXPOSURE TO EBOLA AMONG NON FORMAL HEALTH CARE PROVIDERS IN A PREVIOUS OUTBREAK SITE, BOENDE, DEMOCRATIC REPUBLIC OF CONGO

Nicole A. Hoff¹, Alexis Mwanza², Reena H. Doshi¹, Patrick Mukadi³, Daniel Mukadi⁴, Joseph Wasiswa⁵, Vivian Alfonso¹, Jose Ngamboli³, Nathalie Kavira³, Rachel Mutombe³, Benoît Kebela Ilunga⁶, Emile Okitolonda⁷, Jean-Jacques Muyembe³, Anne W. Rimoin¹

¹University of California Los Angeles Fielding School of Public Health, Los Angeles,

CA, United States, ²University of California Los Angeles-DRC Research Program,

Kinshasa, Democratic Republic of the Congo, ³INRB, Kinshasa, Democratic Republic

of the Congo, ⁴Faculty of Medicine, University of Kinshasa, Kinshasa, Democratic

Republic of the Congo, ⁵University of Kinshasa School of Public Health, Kinshasa,

Democratic Republic of the Congo, ⁶Ministry of Health, Kinshasa, Democratic

Republic of the Congo, ⁷Kinshasa School of Public Health, Kinshasa, Democratic

Republic of the Congo

11 a.m.

1891

SIERRA LEONE TRIAL TO INTRODUCE A VACCINE AGAINST EBOLA (STRIVE): IMPLEMENTATION CHALLENGES, SUCCESSES AND LESSONS LEARNED

Ayesha Idriss¹, Rosalind Carter Wertheim², Brima Kargbo³, The STRIVE Study Team

¹College of Medicine and Allied Health Sciences, Freetown, Sierra Leone, ²Centers

for Disease Control and Prevention, Atlanta, GA, United States, ³Ministry of Health

and Sanitation, Freetown, Sierra Leone

11:15 a.m.

1892

ASSESSING THE HETEROGENEITIES IN VIRAL HEMORRHAGIC FEVER OUTBREAK POTENTIAL ACROSS AFRICA

David M. Pigott

Institute for Health Metrics and Evaluation, Seattle, WA, United States

11:30 a.m.

1893

SPATIAL DETERMINANTS OF EBOLA VIRUS DISEASE RISK FOR THE WEST AFRICAN EPIDEMIC

Kate Zinszer¹, Kathryn Zinszer², Aman Verma², John Brownstein¹

¹Boston Children's Hospital, Boston, MA, United States, ²McGill University, Montreal, QC, Canada

11:45 a.m.

1894

RE-CURRENT EPIZOOTICS OF HIGHLY PATHOGENIC AVIAN INFLUENZA IN NIGERIA AND STATUS OF VACCINATION AS ALTERNATE CONTROL

Jeremiah O. Ijomanta, C. Chinyere, K. Olawuyi, O. Bankole, C. Meseko

National Veterinary Research Institute, Vom, Plateau State, Nigeria, Jos, Nigeria

Symposium 172

Key Knowledge Gaps Concerning the Impact of Interventions on Malaria Transmission

Marriott - Marquis A

Thursday, November 17, 10:15 a.m. - Noon

Our current toolkit to reduce malaria transmission has three key interventions – insecticides for vector control, drugs for treatment and prevention and most recently the potential availability of a malaria vaccine. As these interventions are deployed, there is selection upon the target population that ultimately reduces the effectiveness of the intervention. Furthermore, this selection changes the remaining target population, for example by selecting insecticide or drug resistant organisms, which impacts the effectiveness of the intervention. Use of insecticides and antimalarial drugs has led to the emergence of insecticide resistant mosquitoes and drug resistant parasites; and, vaccines may have differential effectiveness based upon how closely the vaccine target matches the parasite population. This symposium will address the key knowledge gaps concerning the impact of critical interventions—insecticides, vaccines, drugs—on malaria transmission and the ability to reduce or interrupt that transmission. Furthermore, it will discuss the consequences of evolution that changes both host (vector and human), and parasite responses or populations upon which the interventions are directed, creating an evolving challenge to which transmission reduction strategies can be used and when. Detection and

surveillance of these dynamic changes in transmission is critical for continued gains toward malaria control and elimination, and challenges and opportunities around the role of surveillance in this dynamic landscape of changing malaria transmission will be discussed. Finally, use of modeling to integrate and predict the consequences of a deployed intervention and its effectiveness on transmission to inform best practices will be presented.

CHAIR

Dyann F. Wirth

Harvard T.H. Chan School of Public Health, Boston, MA, United States

Deirdre A. Joy

National Institutes of Allergies and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

10:15 a.m.

IMPACT OF INSECTICIDE RESISTANCE ON MALARIA TRANSMISSION

Hilary Ranson

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:30 a.m.

CONSEQUENCES OF VACCINE DEPLOYMENT ON MALARIA TRANSMISSION

Christian Ockenhouse

PATH Malaria Vaccine Initiative, Washington, DC, United States

10:45 a.m.

IMPACT OF ANTIMALARIAL DRUG RESISTANCE ON MALARIA TRANSMISSION

Sarah K. Volkman

Harvard T.H. Chan School of Public Health, Boston, MA, United States

11 a.m.

ROLE OF SURVEILLANCE IN DETECTING TRANSMISSION DYNAMICS IN THE CONTEXT OF COMPROMISED INTERVENTIONS

Kumar Udhayakumar

Centers for Disease Control and Prevention, Atlanta, GA, United States

11:15 a.m.

INTEGRATION AND INTERPRETATION OF PARTIALLY-EFFECTIVE INTERVENTIONS ON MALARIA TRANSMISSION TO INFORM BEST PRACTICES AND POLICIES FOR MALARIA CONTROL AND ELIMINATION

Philip A. Eckhoff

Institute for Disease Modeling, Bellevue, WA, United States

11:30 a.m.

PANEL DISCUSSION

Scientific Session 173

Pneumonia, Respiratory Infections and Tuberculosis II

Marriott - Marquis B

Thursday, November 17, 10:15 a.m. - Noon

CHAIR

Samba O. Sow

Center for Vaccine Development-Mali, Bamako, Mali

Kristina Keitel

Swiss Tropical and Public Health Institute/Boston Children's Hospital, Basel, Switzerland

10:15 a.m.

Presentation by Burroughs Wellcome Fund-ASTMH Fellowship Recipient **1895**

USE OF A QUANTIFIABLE STOOL RT-PCR ASSAY INCREASES DIAGNOSTIC YIELD IN CHILDHOOD TB

Andrew R. DiNardo¹, Nadine Harris¹, Thobile Simelane², Celia Fung², Godwin Mtetwa², Gugu Maphalala³, Edward Graviss⁴, Anna M. Mandalakas¹, Rojelio A. Mejia¹

¹Baylor College of Medicine, Houston, TX, United States, ²Baylor-Swaziland Children's Foundation, Mbabane, Swaziland, ³Ministry of Health, Mbabane, Swaziland, ⁴Houston Methodist Hospital Research Institute, Houston, TX, United States

10:30 a.m.

1896

IS IT TINDZHAKA OR TUBERCULOSIS?: A STUDY OF TRADITIONAL DIAGNOSIS AND TREATMENT AMONG HEALERS IN BUSHBUCKRIDGE, SOUTH AFRICA

Carolyn M. Audet¹, Sizzy Ngoben², Ryan G. Wagner²

¹Vanderbilt University, Nashville, TN, United States, ²University of the Witwatersrand, Johannesburg, South Africa

10:45 a.m.

1897

FOLLOW-UP EVALUATION IN THE UNITED STATES OF NEWLY ARRIVED IMMIGRANTS AND REFUGEES AT HIGH RISK FOR TUBERCULOSIS, 2009-2015

Yecai Liu, Drew L. Posey, Susan A. Maloney, Kevin P. Cain, Michelle S.

Weinberg, Nina Marano, Martin S. Cetron, Christina R. Phares

Centers for Disease Control and Prevention, Atlanta, GA, United States

11 a.m.

1898

USING POINT-OF-CARE C-REACTIVE PROTEIN TEST RESULTS TO TARGET ANTIBIOTIC PRESCRIPTION FOR RESPIRATORY ILLNESSES IN UNDER-FIVES: EXPERIENCE FROM A CLINICAL TRIAL IN DAR ES SALAAM, TANZANIA

Kristina Keitel¹, Frank Kagoro², John Masimba², Zamzam Said², Josephine Samaka², Hosiana Temba², Willy Sangu², Alain Gervaix³, Blaise Genton⁴, Valérie D'Acremont⁵

¹Swiss Tropical and Public Health Institute/Boston Children's Hospital, Basel, Switzerland, ²Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, ³University Children's Hospital Geneva, Geneva, Switzerland, ⁴Swiss Tropical and Public Health Institute/University Hospital Lausanne, Basel, Switzerland, ⁵Swiss Tropical and Public Health Institute/Polyclinique Universitaire Médicale Lausanne, Basel, Switzerland

11:15 a.m.

1899

WHAT DROVE THE DECLINE IN PNEUMONIA-SPECIFIC UNDER-FIVE DEATH IN MALAWI FROM 2000-2014?

Norman Lufesi¹, Karen Finnegan², Mercy Chimbalanga¹, Patrick Naphini¹, Ernest Kaludzu¹, Lewis Gombwa³, Bethred Matipwiri⁴, Amos Misomali⁵, Neff Walker², Melissa Marx²

¹Malawi Ministry of Health, Lilongwe, Malawi, ²Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, ³National Statistical Office of Malawi, Zomba, Malawi, ⁴Malawi Ministry of Health, Salima, Malawi, ⁵Bloomberg School of Public Health, Johns Hopkins University, Lilongwe, Malawi

11:30 a.m.

1900

EPIDEMIOLOGY OF HUMAN METAPNEUMOVIRUS IN CHILDREN UNDER AGE FIVE — DAMANHOUR DISTRICT, EGYPT, 2009-2015

Adel Mansour¹, Hoda Mansour¹, Sahar El Alkamy², Mostafa Maarouf², Sahar El Shorbagy², Mohammed Genidy², Erik J. Reaves³, Mark Wooster³, Samir Refaey², Amr Kandeel²

¹U.S. Naval Medical Research Unit - 3, Cairo, Egypt, ²Ministry of Health and Population, Cairo, Egypt, ³Centers for Disease Control and Prevention, Cairo, Egypt

11:45 a.m.

1901

ETIOLOGY OF ACUTE LOWER RESPIRATORY INFECTIONS IN INPATIENT CHILDREN IN GHANA - A CASE-CONTROL STUDY

Benno Kreuels¹, Benedikt Hogan², Kolja Nolte², Isabella Eckerle³, Charity Wiafe⁴, Kennedy Gyau-Boahen⁴, Tabea Binger³, Daniel Eibach², Ralf Krümkamp², Nimako Sarpong⁴, Yaw Adu-Sarkodie⁵, Christian Drosten³, Ellis Owusu-Dabo⁴, Jürgen May²

¹University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ²Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, ³University of Bonn, Bonn, Germany, ⁴Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, ⁵Kwame Nkrumah University for Science and Technology, Kumasi, Ghana

Symposium 175

Non-Typhoidal *Salmonella* Invasive Infections in Africa: Epidemiology, Vaccine Development and Genomics

Marriott - Marquis D

Thursday, November 17, 10:15 a.m. - Noon

During the past 15 years, population-based systematic blood culture surveillance and hospital-based surveillance has been ongoing in multiple centers in sub-Saharan Africa to detect invasive bacterial pathogens among infants and young children seen in health care facilities. Such surveillance was initially undertaken to quantify the burden of invasive *Haemophilus influenzae* type b and *Streptococcus pneumoniae* infections, in anticipation of the introduction of vaccines against those infections. Surprisingly, a high frequency of isolation of non-typhoidal *Salmonella* (NTS) was revealed. In Kenya, Malawi, Gambia, Mozambique and Mali the incidence of invasive NTS disease rivaled that of pneumococcal disease and case fatality rates of 8-25% were recorded. Serovars *Salmonella* Typhimurium (including monophasic variants) and *S. Enteritidis* account for 80-95% of isolates and antibiotic resistance is common. Some challenges being faced include: Has progress been made in identifying the reservoir of infection and the modes of transmission? Can safe and effective vaccines be developed to control this public health problem in Africa? Are the clones of *S. Enteritidis* and *S. Typhimurium* (including monophasic variants) circulating in Africa distinct from clones observed in industrialized countries where these serovars are in the food chain and cause gastroenteritis? This symposium will provide an overview of invasive NTS disease in Africa, focusing on epidemiology, vaccine development and the genomics of novel African clones. At least one bivalent NTS vaccine will be entering Phase 1 clinical trials in the near future.

CHAIR

Samba O. Sow

Center for Vaccine Development, Mali (CVD-Mali), Bamako, Mali

Myron M. Levine

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

10:15 a.m.

NON-TYPHOIDAL SALMONELLA INVASIVE INFECTIONS IN SUB-SAHARAN AFRICA: DISEASE BURDEN, RESERVOIRS AND MODES OF TRANSMISSION

Melita A. Gordon

Institute of Translational Medicine, University of Liverpool, Liverpool, United Kingdom

10:40 a.m.

ENGINEERED RECOMBINANT LIVE ORAL NTS VACCINES AND VACCINE "REAGENT STRAINS"

Sharon M. Tennant

University of Maryland School of Medicine, Center for Vaccine Development, Baltimore, MD, United States

11:05 a.m.

A BIVALENT SALMONELLA ENTERITIDIS/S. TYPHIMURIUM CONJUGATE VACCINE MOVES TOWARDS EARLY PHASE CLINICAL TRIALS

Raphael Simon

University of Maryland School of Medicine, Center for Vaccine Development, Baltimore, MD, United States

11:30 a.m.

CHARACTERIZATION OF NOVEL S. ENTERITIDIS STRAINS FROM SUB-SAHARAN AFRICA

Nicholas A. Feasey

Institute of Translational Medicine, University of Liverpool, Liverpool, United Kingdom

Scientific Session 176

Kinetoplastida: Molecular Biology and Immunology

Marriott - Room M103/M104/M105

Thursday, November 17, 10:15 a.m. - 12:15 p.m.

CHAIR

Hira L. Nakhasi

Food and Drug Administration, Bethesda, MD, United States

Smriti Sharma

Banaras Hindu University, Varanasi, India

10:15 a.m.

1902

COMPARISON OF THE HUMORAL RESPONSE INDUCED BY DIFFERENT LINEAGES OF TRYPANOSOMA CRUZI IN A MURINE MODEL

Miryam Romano¹, Julio Rubén Nasser¹, Patricio Diosque², Rubén Oscar Cimino¹, Marcela Portelli³, Alejandro Javier Krolewiecki¹, Paula Gabriela Ragone⁴

¹Instituto de Investigaciones en Enfermedades Tropicales, Universidad Nacional de Salta, Orán, Salta, Argentina, ²Unidad de Instituto de Patología Experimental, Universidad Nacional de Salta, Salta, Argentina, ³Cuerpo de Investigaciones Fiscales, Salta, Argentina, ⁴Unidad de Epidemiología Molecular, Instituto de Patología Experimental, Salta, Argentina

(ACMCIIP Abstract)

10:30 a.m.

1903

PHENOTYPIC AND FUNCTIONAL CHARACTERISTICS OF HLA-DR+ NEUTROPHILS IDENTIFIED IN CIRCULATION OF BRAZILIAN CUTANEOUS LEISHMANIASIS PATIENTS

Richard E. Davis¹, Smriti Sharma², Jacilara Conceicao³, Pedro P. Carneiro³, Shyam Sundar², Olivia Bacellar³, Edgar M. Carvalho³, Mary E. Wilson¹
¹University of Iowa, Iowa City, IA, United States, ²Banaras Hindu University, Varanasi, India, ³Universidade Federal da Bahia, Salvador, Brazil

(ACMCIP Abstract)

10:45 a.m.

1904

HLA DR EXPRESSING LOW DENSITY NEUTROPHIL SUBSETS EXPAND DURING HUMAN VISCERAL LEISHMANIASIS AND CAN CONTRIBUTE TO T CELL PROLIFERATION

Smriti Sharma¹, Richard Davis², Susanne Nylen³, David L. Sacks⁴, Shyam Sundar¹, Mary E. Wilson²
¹Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, ²University of Iowa, Iowa City, IA, United States, ³Karolinska Institutet, Stockholm, Sweden, ⁴National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

11 a.m.

1905

ACTIVATION OF HUMAN KERATINOCYTES BY LEISHMANIA SPP.: DIVERGENT EFFECTS OF LEISHMANIA INFANTUM VERSUS LEISHMANIA MAJOR

Breanna Scorza, Mark Wacker, Kelly Messingham, Janet Fairley, Mary Wilson
University of Iowa, Iowa City, IA, United States

(ACMCIP Abstract)

11:15 a.m.

1906

HEMOPHAGOCYTOSIS IN EXPERIMENTAL VISCERAL LEISHMANIASIS BY LEISHMANIA DONOVANI

Ayako Morimoto, Satoko Omachi, James K. Chambers, Kazuyuki Uchida, Chizu Sanjoba, Yoshitsugu Matsumoto, Yasuyuki Goto
Tokyo University, Tokyo, Japan

11:30 a.m.

1907

INVOLVEMENT OF NUCLEOTIDE-BINDING DOMAIN LEUCINE-RICH REPEAT PROTEIN 12 (NLRP12) IN VISCERAL LEISHMANIASIS (VL)

Diogo Valadares, Gwendolyn Clay, Richard E. Davis, Bayan Sudan, Yani Chen, Breanna Scorza, Fayyaz Sutterwala, Mary E. Wilson
University of Iowa, Iowa City, IA, United States

(ACMCIP Abstract)

11:45 a.m.

1908

EVALUATION OF THE USE OF LEISHMANIA DONOVANI DOUBLE KNOCK-OUT PARASITES (LDCEN-/-MIF-/-) AS PROTECTIVE VACCINE AGAINST VISCERAL LEISHMANIASIS

Jacqueline Araújo Fiuza¹, Sreenivas Gannaravaram², Soraya Torres Gaze Jangola¹, Érica Alessandra Rocha Alves¹, Andrea Teixeira de Carvalho³, Hira Nakhasi², Rodrigo Correa-Oliveira¹
¹Laboratory of Cellular and Molecular Immunology-René Rachou Institute/FIOCRUZ, Belo Horizonte, Brazil, ²Laboratory of Emerging Pathogens, Division of Emerging and Transfusion Transmitted Diseases, Office of Blood Research and Review, Center for Biologics Research and Review, Food and Drug Administration, Silver Spring, MD, United States, ³Laboratory of Biomarkers for Diagnosis and Monitoring, René Rachou Research Center/FIOCRUZ, Belo Horizonte, Brazil

(ACMCIP Abstract)

Noon

1762

IDENTIFICATION OF MICRORNA-21 AS A BIOMARKER IN LIVE ATTENUATED LEISHMANIA VACCINE INDUCED PROTECTIVE IMMUNITY

Parna Bhattacharya, Nevien Ismail, Amit Kaul, Sreenivas Gannavaram, Hira L. Nakhasi
Food and Drug Administration, Silver Spring, MD, United States

Symposium 177

Advancing Global Health Security through Social, Behavioral and Communications Science: Lessons from the West Africa Ebola Outbreak

Marriott - Atrium A

Thursday, November 17, 10:15 a.m. - Noon

This symposium will present findings and public health implications of social, behavioral and communications science work conducted during the Ebola Virus Disease (EVD) response in West Africa. Lessons learned can guide future responses and global health security efforts. Multi-disciplinary work supported and informed Ebola response, prevention and recovery strategies by 1) Utilizing emergency risk communication science and principles to deliver timely and actionable information; 2) Conducting a series of four national Knowledge, Attitudes, and Practices (KAP) surveys in a rapidly evolving outbreak setting; and 3) Assessing the national impact of the Ebola outbreak on the population's mental health status. Implementing rapid qualitative research on acceptability of Ebola prevention efforts, including those focused on contact tracing, prevention of sexual transmission, and use of the health care system. The West Africa Ebola outbreak brought the world's attention to the complexities surrounding outbreak containment of a highly fatal disease in a very resource-limited setting. The need for rapid behavior change demonstrated the integral role of social, behavioral and communication science in outbreak response strategy. Understanding and responding to cultural and knowledge barriers that inhibited EVD transmission prevention efforts was paramount to containment efforts. Four national cross-sectional KAP surveys were conducted in Sierra Leone beginning in August 2014. These surveys informed the development of a national social mobilization and risk communication strategies that targeted high risk transmission environments, behaviors and knowledge gaps at different stages of the epidemic. Similarly, rapid behavioral assessments using qualitative methodologies were conducted to gain more in-depth understanding of barriers to prevention and treatment. The findings were used to inform targeted, tailored and culturally appropriate interventions to get to zero cases, including contact tracing, quarantine and sexual transmission prevention interventions. As EVD case counts decreased, the focus of the July 2015 national survey shifted to topics related to recovery, including assessment of public confidence in the health care system and the mental health impact of the Ebola epidemic. Containing the largest Ebola outbreak in history required response strategies and tactics be grounded in social, behavioral and communication science. This symposium will include presentation of key empirical findings, as well as lessons learned from response efforts in the field that can be used to inform preparedness and global health security efforts.

Thursday
November 17

CHAIR

Rebecca Bunnell

Centers for Disease Control and Prevention, Atlanta, GA, United States

Wenshu Li

Centers for Disease Control and Prevention, Atlanta, GA, United States

10:15 a.m.

COMMUNICATING HEALTH AND SAFETY INFORMATION WHEN EVERY MOMENT COUNTS: RISK COMMUNICATION IN AN EBOLA EPIDEMIC

Nicole Hawk

Centers for Disease Control and Prevention, Atlanta, GA, United States

10:35 a.m.

MENTAL HEALTH IN SIERRA LEONE: NATIONAL IMPACT OF EBOLA EPIDEMIC

Wenshu Li

Centers for Disease Control and Prevention, Atlanta, GA, United States

10:50 a.m.

UTILIZING KNOWLEDGE, ATTITUDES AND PRACTICES (KAP) SURVEYS TO INFORM BEHAVIOR INTERVENTION STRATEGIES IN AN EBOLA EPIDEMIC

Mohamed F. Jalloh

Centers for Disease Control and Prevention, Atlanta, GA, United States

11:10 a.m.

THE ROLE OF BEHAVIORAL SCIENCE IN THE WEST AFRICA EBOLA RESPONSE: BUILDING PUBLIC HEALTH CAPACITY

Neetu Abad

Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 178

Filariasis: Clinical

Marriott - Atrium B

Thursday, November 17, 10:15 a.m. - Noon

CHAIR

LeAnne M. Fox

Centers for Disease Control and Prevention, Atlanta, GA, United States

Catherine M. Bjerum

Case Western Reserve University, Cleveland, OH, United States

10:15 a.m.

1909

TEST AND NOT TREAT (TNT): A SAFE STRATEGY TO PROVIDE COMMUNITY-BASED TREATMENT WITH IVERMECTIN IN LOA LOA ENDEMIC AREAS

Joseph Kamgno¹, Sébastien Pion², Matthew Bakalar³, Cédric Chesnais², Mike D'Ambrosio³, Raceline Gonoue Kamkumo¹, Charles D. Mackenzie⁴, Muriel Sonia Mehly Ngninzeko¹, Narcisse Ngandjui⁵, Guy Roger Njitchoang¹, Philippe Nwane¹, Jules Tchatchueng Mbouga¹, Arnel Fabrice Tchinde Toussi¹, Samuel Wanji⁵, Daniel Fletcher³, Thomas B. Nutman⁶, Amy Klion⁶, Michel Boussinesq²

¹Centre for Research on Filariasis and other Tropical Diseases, Yaounde, Cameroon,

²Institut de Recherche pour le Développement, Montpellier, France, ³University

of California, Berkeley, CA, United States, ⁴Liverpool School of Tropical Medicine,

Liverpool, United Kingdom, ⁵Research Foundation for Tropical Diseases and

the Environment, Buea, Cameroon, ⁶National Institute of Allergy and Infectious

Diseases, National Institutes of Health, Bethesda, MD, United States

10:30 a.m.

1910

THE MACROFILARICIDAL ACTIVITY OF A SINGLE DOSE OF IVERMECTIN, ALBENDAZOLE AND DIETHYLCARBAMAZINE AGAINST WUCHERERIA BANCROFTI IN CÔTE D'IVOIRE

Catherine M. Bjerum¹, Allassane Ouattara², Benjamin G. Koudou³, Abdoulaye Meite⁴, James W. Kazura⁵, Gary Weil⁶, Christopher L. King⁵

¹Case Western Reserve University, Cleveland, OH, United States, ²Centre Suisse

de Recherche en Cote d'Ivoire, Abidjan, Côte D'Ivoire, ³Liverpool School of Tropical

Medicine, Pembroke Place, Liverpool, United Kingdom, ⁴Programme National de

Lutte Contre la Schistosomiase, les Geohelminthiases et la Filariose Lymphatique,

Abidjan, Côte D'Ivoire, ⁵Center for Global Health and Diseases, Case Western

Reserve University, Cleveland, OH, United States, ⁶Infectious Diseases Division,

Department of Internal Medicine, Washington University School of Medicine, St.

Louis, MO, United States

10:45 a.m.

1911

NEXT GENERATION IMMUNOASSAYS PROVIDE ONE-STEP SPECIES-SPECIFICITY FOR THE DIAGNOSIS OF FILARIAL INFECTIONS AND STRONGYLOIDES STERCORALIS IN TRAVELERS AND IMMIGRANTS

Joseph Kubofcik, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

11 a.m.

1912

HIGH EFFICACY OF SINGLE DOSE OF CO-ADMINISTERED IVERMECTIN, DIETHYLCARBAMAZINE AND ALBENDAZOLE IN TREATMENT OF LYMPHATIC FILARIASIS IN CÔTE D'IVOIRE

Allassane F. Ouattara¹, Olivier Kouadio¹, Catherine Bjerum², Benjamin G. K11oudou³, Abdoulaye Meité⁴, James W. Kazura⁵, Gary Weil⁶, Christopher L. King²

¹Centre suisse de recherches scientifiques en Côte d'Ivoire, Abidjan, Côte D'Ivoire,

²Center for Global Health and Diseases, Case Western Reserve University

School of Medicine, Cleveland, OH, United States, ³Liverpool School of Tropical

Medicine, Liverpool, United Kingdom, ⁴Programme national de la lutte contre la

schistosomiase, les geohelminthiases et la filariose lymphatique, Abidjan, Côte

D'Ivoire, ⁵Center for Global Health and Diseases, Case Western Reserve University

School of Medicine, Abidjan, OH, United States, ⁶Infectious Diseases Division,

Department of Internal Medicine, Washington University School of Medicine, St.

Louis, MO, United States

11:15 a.m.

1913

EFFECTIVENESS AND SAFETY OF ALBENDAZOLE FOR THE TREATMENT OF HYPERMICROFILAREMIC LOIASIS IN GABON

Marielle K. Bouyou-Akotet, Noe P. Mbondoukwe, Christian Nziengui, Eric

Kendjo, Marie Noelle Mossavou Bousougou, Mathieu Owono Medang, Denise

P. Mawili Mboumba, Maryvonne Kombila

Université des Sciences de la Santé, Libreville, Gabon

11:30 a.m.

1914

DEVELOPMENT OF MURINE MODELS OF LOIASIS TO ASSESS MICROFILARICIDAL ACTIVITY OF PRE-CLINICAL CANDIDATE ANTI-FILARIAL DRUGS

Hanna Sjoberg¹, Nicolas Pionnier¹, Haelly Metugene², Abdel Njouendou², Fanny

Fombad², Patrick Ndongmo², Dizzle Tayong², Bertrand Ndzeshang², Andrew

Steven¹, Darren Cook¹, Ghaith Alyaoussi¹, Steve Ward¹, Mark Taylor¹, Samuel

Wanji², Joseph Turner¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²University of

Buea, Buea, Cameroon

(ACMCIP Abstract)

11:45 a.m.

1915

PET/CT LYMPHOSCINTIGRAPHY DEMONSTRATES EARLY CHANGES IN LYMPHATIC FUNCTION IN THE *BRUGIA MALAYI*/FERRET MODEL OF LYMPHATIC FILARIASIS

Belinda M. Jackson, So Young Kim, Shalini Jaiswal, Jessica Scott, Colin M. Wilson, Scott Jones, Bernard J. Dardzinski, Edward Mitre
Uniformed Services University, Burtonsville, MD, United States

Symposium 179

Gene Drives on the Horizon: Advancing Science, Navigating Uncertainty and Aligning Research with Public Values

Marriott - Room A601

Thursday, November 17, 10:15 a.m. - Noon

The continuing threat of malaria, dengue and the emergence of the Zika virus have created more pressure than ever to consider the use of new and advanced technologies such as gene drives to intentionally introduce genetically engineered traits into wild populations of disease vectors. Already, scientists are developing in the lab gene drives that would render certain mosquito populations unable to transmit infectious diseases such as malaria or even suppress to control these populations in the wild. However, several important questions about the readiness to deploy gene drives need to be answered, including questions about potential ecological impacts, governance, and social and ethical questions. This session is based on a report from the National Academies of Sciences, Engineering, and Medicine (released June 8, 2016) that reviews the state of gene drive research that relies on CRISPR/Cas9 and other endonucleases, as well as other genetic modification approaches. A major focus is identifying key scientific techniques needed to reduce ecological and other risks that should be considered prior to field releases of organisms carrying gene drives. Presenters will discuss potential environmental and other hazards to target and non-target organisms and the possible mitigation strategies that could be used during the different phases of the research. Case studies based on likely applications of gene drive technologies will be used to describe the adequacy of oversight mechanisms, guidelines, and regulations to identify immediate and long-term potential environmental and public health implications. Existing gaps identified by the report's authoring committee will be presented. The discussion of oversight will extend to the need to safeguard against accidental or intended misuse of gene drives. Presenters will discuss the state of the science and value based-concerns, including relevant legal, social or ethical considerations in selecting sites for field releases and engaging those living in or near potential release sites. Finally, presenters will share a set of general principles proposed to guide responsible practices in gene drive research for the laboratory setting through to field releases for use by investigators, their institutions, the research funders and regulators.

CHAIR

Audrey Thevenon

National Academy of Sciences, Washington, DC, United States

Stephen Higgs

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

10:15 a.m.

GENE DRIVES - WHAT ARE THEY, HOW DO THEY WORK, WHY ARE THEY IMPORTANT IN TROPICAL MEDICINE?

James Collins

Arizona State University, School of Life Sciences, Tempe, AZ, United States

10:30 a.m.

VALUE-BASED CONCERNS ABOUT GENE DRIVES AND RESPONSIBLE PRACTICES TO ADDRESS THEM

Elizabeth Heitman

Vanderbilt University Medical Center, Center for Biomedical Ethics and Society, Nashville, TN, United States

10:45 a.m.

TAKING A PRECAUTIONARY APPROACH TO DEVELOP GENE DRIVES THROUGH A PHASED TESTING PATHWAY

Nicole L. Achee

University of Notre Dame, Notre Dame, IN, United States

11 a.m.

INCORPORATING PUBLIC ENGAGEMENT THROUGHOUT PHASED TESTING

Jason Delborne

North Carolina State University, Raleigh, NC, United States

11:15 a.m.

REGULATORY CONSIDERATIONS IN A GLOBAL ARENA

Joyce Tait

University of Edinburgh, Innogen Centre, Edinburgh, United Kingdom

Scientific Session 180

Global Health: Maternal and Child Health

Marriott - Room A602

Thursday, November 17, 10:15 a.m. - Noon

CHAIR

Carter Cowden

The Children's Hospital of Philadelphia, Philadelphia, PA, United States

Davidson H. Hamer

Boston University, Center for Global Health and Development, Boston, MA, United States

10:15 a.m.

1916

MICROBIOLOGY AND OUTCOMES IN HOSPITALIZED NEONATES WITH SEPSIS: A ZAMBIAN COHORT STUDY

Carter L. Cowden¹, Lawrence Mwananyanda², Cassandra Pierre³, James C. Mwansa⁴, Chilese Lukwesa⁴, Angela Nyondo², Monica Kapasa⁴, Sylvia Machona⁴, Nellisiwe Chizuni², Moses C. Malama², Gertrude Munanjala², Matthew Bates⁵, Russell Localio⁶, Davidson H. Hamer⁷, Susan E. Coffin⁸

¹The Children's Hospital of Philadelphia, Philadelphia, PA, United States, ²Zambia Centre for Applied Health Research and Development, Lusaka, Zambia, ³Boston University School of Medicine, Boston, MA, United States, ⁴University Teaching Hospital, Lusaka, Zambia, ⁵University Teaching Hospital, Harvard Medical School, Lusaka, Zambia, ⁶Department of Biostatistics and Epidemiology, The University of Pennsylvania, Philadelphia, PA, United States, ⁷Zambia Centre for Applied Health Research and Development; Center for Global Health and Development, Boston University School of Public Health, Boston, MA, United States, ⁸Division of Infectious Diseases, The Children's Hospital of Philadelphia; The University of Pennsylvania School of Medicine, Philadelphia, PA, United States

10:30 a.m.

1917

HIGH SERUM ZINC LEVELS PROTECT AGAINST ROTAVIRUS INFECTION BUT NOT OTHER DIARRHEA-ASSOCIATED PATHOGENS IN A BIRTH COHORT IN BANGLADESH

E. Ross Colgate¹, Dorothy M. Dickson¹, Rashidul Haque², Mami Taniuchi³, James A. Platts-Mills³, Josyf C. Mychaleckyj³, Uma Nayak³, Marya P. Carmolli¹, William A. Petri³, Beth D. Kirkpatrick¹

¹University of Vermont College of Medicine, Burlington, VT, United States,

²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka,

Bangladesh, ³University of Virginia, Charlottesville, VA, United States

10:45 a.m.

1918

DECLINING CHILD MORTALITY DUE TO INFECTIOUS DISEASES IN AN URBAN SLUM IN NAIROBI KENYA

Jennifer R. Verani¹, Leonard Cosmas¹, Shadrack Muema², Alice Ouma², Geofrey Masyongo², Marc-Alain Widdowson¹, Godfrey Bigogo²

¹Division of Global Health Protection, Centers for Disease Control and Prevention,

Nairobi, Kenya, ²Center for Global Health Research, Kenya Medical Research

Institute, Nairobi, Kenya

11 a.m.

1919

A SYSTEMATIC REVIEW ON THE EFFECTIVENESS OF STRATEGIES TO IMPROVE HEALTH WORKER PERFORMANCE IN LOW- AND MIDDLE-INCOME COUNTRIES: PRELIMINARY RESULTS ON UTILIZATION OF HEALTH SERVICES

Alexander K. Rowe¹, Samantha Y. Rowe¹, David H. Peters², Kathleen A.

Holloway³, John Chalker⁴, Dennis Ross-Degnan⁵

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Johns

Hopkins University, Baltimore, MD, United States, ³World Health Organization,

New Delhi, India, ⁴Management Sciences for Health, Arlington, VA, United States,

⁵Harvard Medical School, Boston, MA, United States

11:15 a.m.

1920

THE IMPACT OF ANEMIA DURING PREGNANCY AND ITS RISK FACTORS ON THE COGNITIVE DEVELOPMENT OF ONE-YEAR-OLD CHILDREN

Michael O. Mireku¹, Michel Cot², Florence Bodeau-Livinec³

¹Imperial College London, London, United Kingdom, ²Institut de recherche pour le

développement (IRD), Paris, France, ³INSERM U1153, Paris, France

11:30 a.m.

1921

MATERNAL AND INFANT FACTORS MEDIATING COGNITIVE DEVELOPMENT AT 12 MONTHS AMONG FILIPINO INFANTS

Sangshin Park¹, David Bellinger², Meredith Adamo¹, Brady Bennett³, Namkyong Choi², Palmera Baltazar⁴, Edna B. Ayaso⁴, Donna Bella S. Monterde⁴, Veronica Tallo⁵, Remigio M. Olveda⁵, Luz P. Acosta⁵, Jennifer F. Friedman¹

¹Alpert Medical School of Brown University, Providence, RI, United States, ²Harvard

Medical School, Boston, MA, United States, ³Health Council of South Florida,

Miami, FL, United States, ⁴Remedios Trinidad Romualdez Hospital, Tacloban City,

Philippines, ⁵Research Institute for Tropical Medicine, Manila, Philippines

11:45 a.m.

1922

MOTHERS SCREENING FOR MALNUTRITION BY MUAC IS NON-INFERIOR TO COMMUNITY HEALTH WORKERS: RESULTS FROM A LARGE-SCALE PRAGMATIC TRIAL IN RURAL NIGER

Franck Alé¹, Kevin Phelan¹, Hassan Issa¹, Isabelle Defourny², Guillaume Le Duc¹, Géza Harzci³, Kader Issaley¹, Sani Sayadi⁴, Nassirou Ousmane⁴, Issoufou Yahaya⁵, Mark Myatt⁶, André Briand⁷, Thierry Allafort-Duverger¹, **Susan Shepherd**¹, Nikki Blackwell¹

¹The Alliance for International Medical Action (ALIMA), Dakar, Senegal, ²Médecins

Sans Frontières, Paris, France, ³Médecins Sans Frontières, Dakar, Senegal, ⁴Bien

Être de la Femme et de l'Enfant (BEFEN), Niamey, Niger, ⁵Ministry of Public Health,

Niamey, Niger, ⁶Brixton Health, London, United Kingdom, ⁷University of Copenhagen, Copenhagen, Denmark

Symposium 181

Enhancement of Syndromic Surveillance, Outbreak-Response and Disease Elimination through Innovative Laboratory Diagnostics

Marriott - Room A703/A704

Thursday, November 17, 10:15 a.m. - Noon

This symposium will highlight the importance of epidemiological and laboratory innovations to enhance prompt detection and controlling the outbreak-prone emerging and re-emerging infectious diseases globally. Speakers will present the opportunities and practical challenges in monitoring and respond to outbreak-prone diseases with pandemic potential in resource-constraint settings and share their field experiences in application of syndromic surveillance and response, through utilizing innovative multiplex laboratory diagnostics. The session will include an interactive discussion session and recommendations on effective implementation of new, innovative and integrated laboratory technologies in support of global surveillance and response activities. The symposium will benefit public health and laboratory scientists who are involved in laboratory research and innovations, infectious disease surveillance and outbreak responses.

CHAIR

Kevin Karem

Centers for Disease Control and Prevention, Atlanta, GA, United States

Ron Rosenberg

Centers for Disease Control and Prevention, Fort Collins, CO, United States

10:15 a.m.

EBOLA-EXAMPLES OF SYNDROMIC MANAGEMENT WITHOUT DIAGNOSTIC SUPPORT

Joel M. Montgomery

Centers for Disease Control and Prevention, Atlanta, GA, United States

10:30 a.m.

NEW LABORATORY DIAGNOSTICS FOR USE IN RESOURCE-LIMITED ENVIRONMENTS

Barry Fields

Centers for Disease Control and Prevention, Atlanta, GA, United States

10:45 a.m.

DEVELOPMENT AND CHALLENGES OF TRANSLATING VIRAL HEMORRHAGIC FEVER RESEARCH TO ACTIONABLE DIAGNOSTIC APPLICATIONS

Tim D. Minogue

U.S. Army Medical Research Institute for Infectious Diseases, Bethesda, MD, United States

11 a.m.

ZIKA VIRUS IN BRAZIL: CHALLENGES TO DETECTION FOR SYNDROMIC MANAGEMENT

Claudia Nunes Duarte dos Santos

Instituto Carlos Chagas, Curitiba, Brazil

Scientific Session 182

HIV and Tropical Co-Infections

Marriott - Room A706/A707

Thursday, November 17, 10:15 a.m. - Noon

CHAIR

Charlotte V. Hobbs

University of Mississippi Medical Center, Jackson, MS, United States

Paul B. Natureeba

Infectious Diseases Research Collaboration, Kampala, Uganda

10:15 a.m.

1923**INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN HIV-INFECTED PREGNANT WOMEN WITH DIHYDROARTEMISININ-PIPERAQUINE: A DOUBLE BLINDED RANDOMIZED CONTROLLED TRIAL**

Paul B. Natureeba

Infectious Diseases Research Collaboration, Kampala, Uganda

10:30 a.m.

1924**IMPACT OF EFAVIRENZ AND PREGNANCY ON PIPERAQUINE EXPOSURE IN UGANDAN PREGNANT WOMEN**Richard Kajubi¹, Nona Chamankhah², Liusheng Huang², Norah Mwebaza³, Abel Kakuru¹, Prasanna Jagannathan², Philip J. Rosenthal², Moses R. Kamy³, Grant Dorsey², Diane Havlir², Francesca Aweeka²¹Infectious Disease Research Collaboration, Kampala, Uganda, ²University of California San Francisco, San Francisco, CA, United States, ³Makerere University, Kampala, Uganda

10:45 a.m.

1925**MALARIA IN HIV-INFECTED CHILDREN RECEIVING HIV PROTEASE-INHIBITOR-COMPARED WITH NON-NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITOR-BASED ANTIRETROVIRAL THERAPY**Charlotte V. Hobbs¹, Erin Gabriel², Portia Kamthunzi³, Gerald Tegha³, Elizabeth Wills Petzold⁴, Linda Barlow-Mosha⁵, Benjamin H. Chi⁶, Yonghua Li⁷, Tiina Ilmet⁷, Brian Kirmse¹, Jillian Neal⁸, Sunil Parikh⁹, Nagamah Deygo⁷, Patrick Jean-Philippe¹⁰, Lynne Mofenson¹¹, William Prescott¹², Philippa Musoke⁵, Paul Palumbo¹³, Patrick E. Duffy⁸, William Borkowsky⁷¹University of Mississippi Medical Center, Jackson, MS, United States, ²Biostatistics Research Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ³Kamuzu Central Hospital, University of North Carolina at Chapel Hill Lilongwe Project, Lilongwe, Malawi, ⁴Duke University, Durham, NC, United States, ⁵Makerere University-Johns Hopkins University Project, Kampala, Uganda, ⁶University of Mississippi Medical Center, University of North Carolina at Chapel Hill, NC, United States, ⁷New York University School of Medicine, Department of Pediatrics, Division of Infectious Disease and Immunology, New York, NY, United States, ⁸Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ⁹Yale University, New Haven, CT, United States, ¹⁰Maternal Adolescent Pediatric Research Branch, Prevention Science Program, Division of AIDS, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ¹¹Elizabeth Glaser Pediatric AIDS Foundation, Washington, DC, United States, ¹²HYDAS World Health, Inc, Hershey, PA, United States, ¹³Division of Infectious Diseases and International Health, Geisel School of Medicine at Dartmouth, Dartmouth, NH, United States

11 a.m.

1926**EFFECT OF DAILY TRIMETHOPRIM SULFAMETHOXAZOLE PROPHYLAXIS ON THE LONG-TERM CLINICAL IMPACT OF MALARIA INFECTION AMONG HIV INFECTED ADULTS ON SUCCESSFUL ART IN BLANTYRE, MALAWI**Felix A. Mkandawire¹, Randy G. Mungwira¹, Titus H. Divala¹, Oswald M. Nyirenda¹, Maxwell Kanjala¹, Lufina Tsirizani¹, Francis Muwalu¹, Nicaise Ndembu², Terrie E. Taylor³, Jane Mallewa⁴, Joep J. van Oosterhout⁵, Matthew B. Laurens⁶, Miriam K. Laufer⁶¹Blantyre Malaria Project, University of Malawi College of Medicine, Blantyre, Malawi, ²Institute of Human Virology, Lagos, Nigeria, ³Institute of Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ⁴University of Malawi College of Medicine, Blantyre, Malawi, ⁵Dignitas International, Zomba, Malawi, ⁶Division of Malaria Research, Center for Global Health, University of Malaria School of Medicine, Baltimore, MD, United States

11:15 a.m.

1927**PERSISTENCE OF LOWER ANTIBODY LEVELS TO VAR2CSA IN HIV-POSITIVE KENYAN PREGNANT WOMEN DESPITE HAART**Anna Babakhanyan¹, Lee Ndeda², Emmily Koech², Fredrick Opinya², Peter Odada², Rosemary Rochford³, Arlene Dent¹¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³SUNY Upstate Medical University, New York, NY, United States

11:30 a.m.

1928**ASSESSING IMPACT OF COMMUNITY-BASED ANTIRETROVIRAL THERAPY AND ITS SCALE UP: PERSPECTIVES FROM FOUR PRIORITY LOCAL GOVERNMENT AREAS IN LAGOS, NIGERIA**Chinedu O. Oraka¹, Babatunde Odusolu¹, Adegbeniga Olanroye¹, Chinedu Agbakwuru², Titi Badru², Ifeyinwa Ndubuisi¹, Mariam Adeyemi¹, Ebere Iwerumoh¹, Adedoyin Ogunyemi¹¹FHI 360, Lagos, Nigeria, ²FHI 360, Abuja, Nigeria

11:45 a.m.

1929**DEVELOPMENT OF A MUCOSAL VACCINE AGAINST HIV BASED ON GENETICALLY-ENGINEERED SACCHAROMYCES CEREVISIAE PROBIOTIC STRAINS**Mariana L. Palma¹, Flaviano S. Martins², Ernesto T. Marques Jr³, Bruno Douradinha⁴¹Department of Infectious Diseases and Microbiology, University of Pittsburgh, Pittsburgh, PA, United States, ²Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ³University of Pittsburgh Center for Vaccine Research, Pittsburgh, PA, United States, ⁴Fondazione Ri.MED, Palermo, Italy

Thursday, November 17, Noon

ASTMH 65th Annual Meeting Adjourns

See you next year at the Baltimore Convention Center in Baltimore, Maryland!

Thursday
November 17

Presenter Index I: Plenary, Symposium, Meet the Professors, Mid-Day and Special Sessions (Speakers and Session Chairs)

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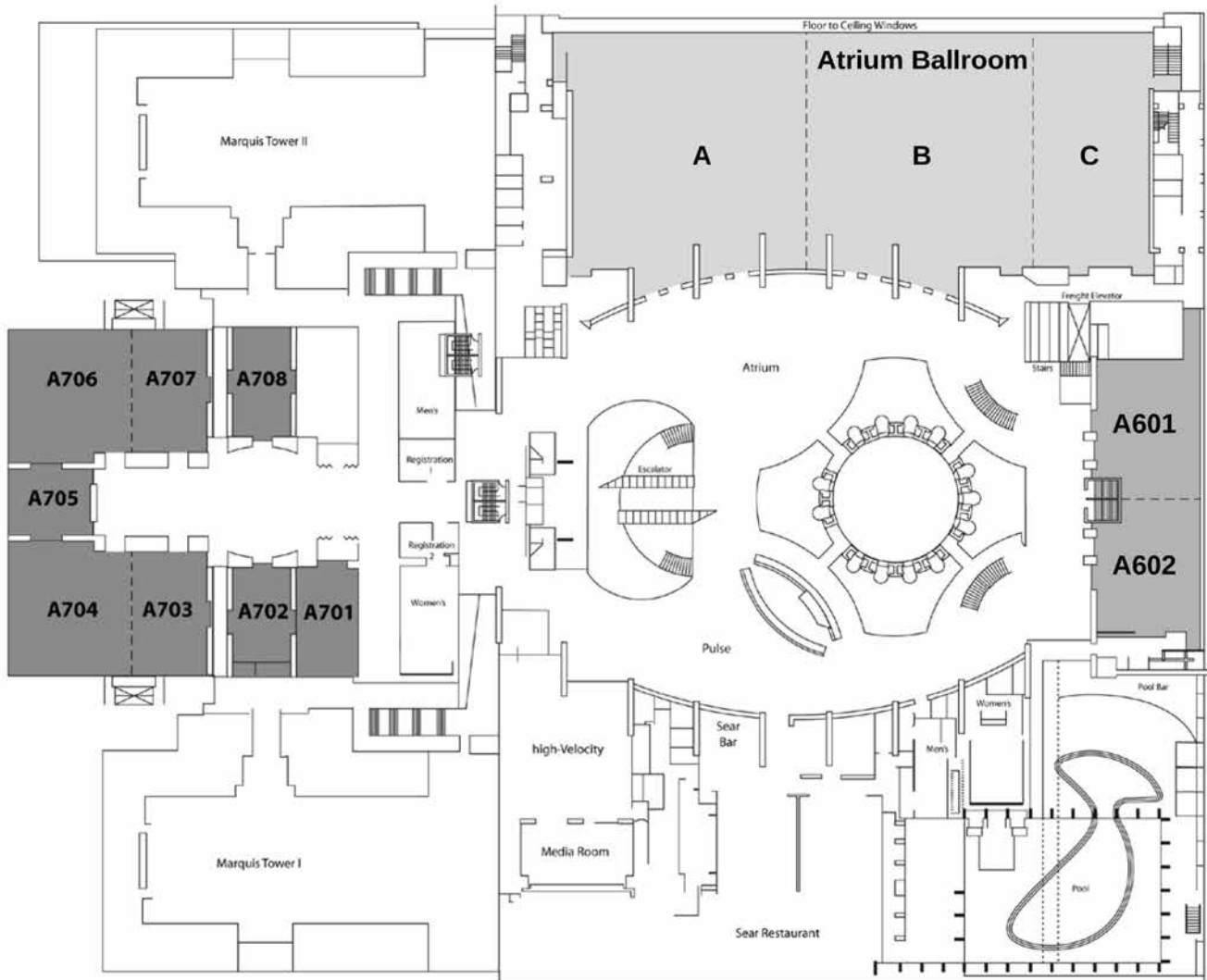
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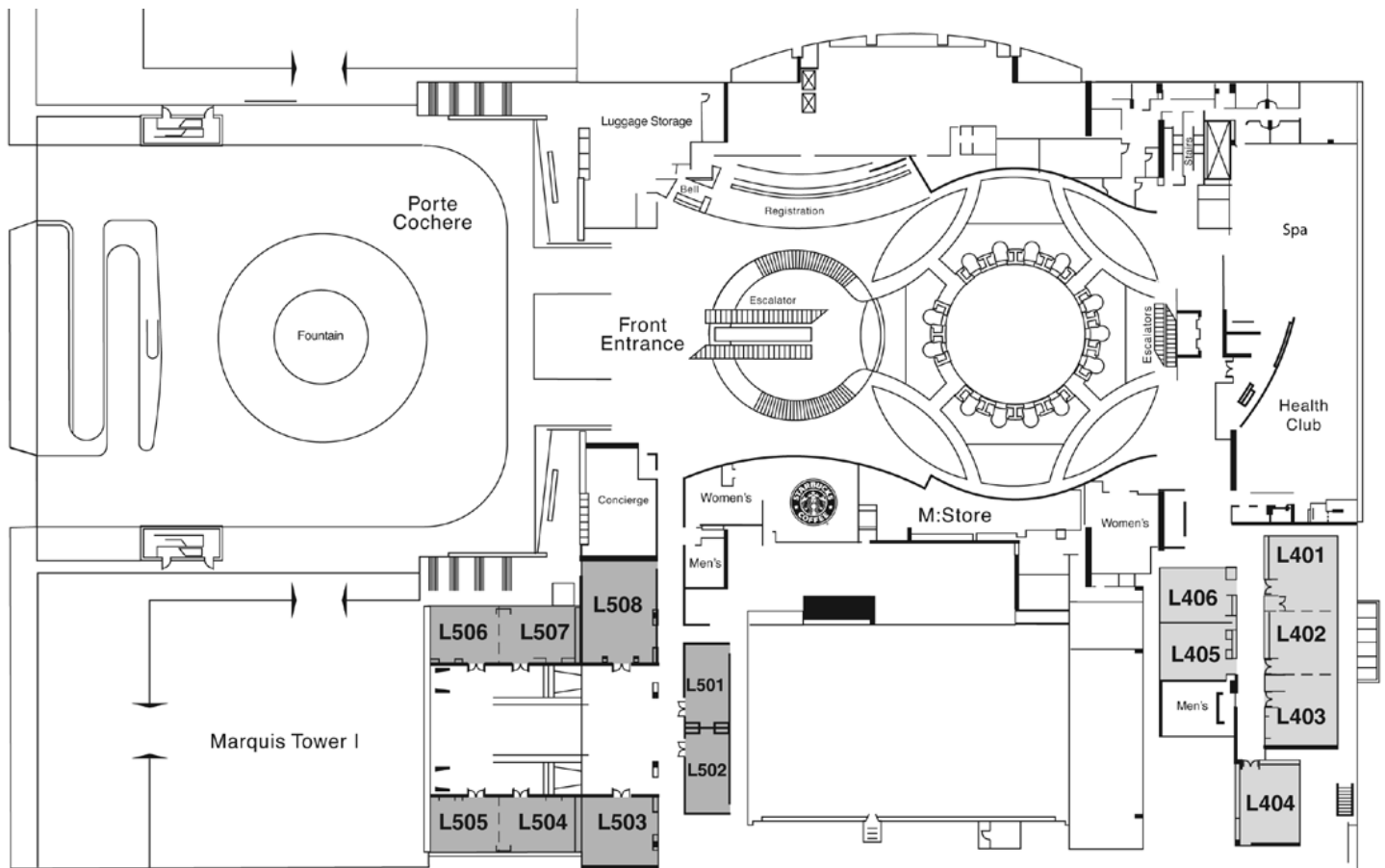


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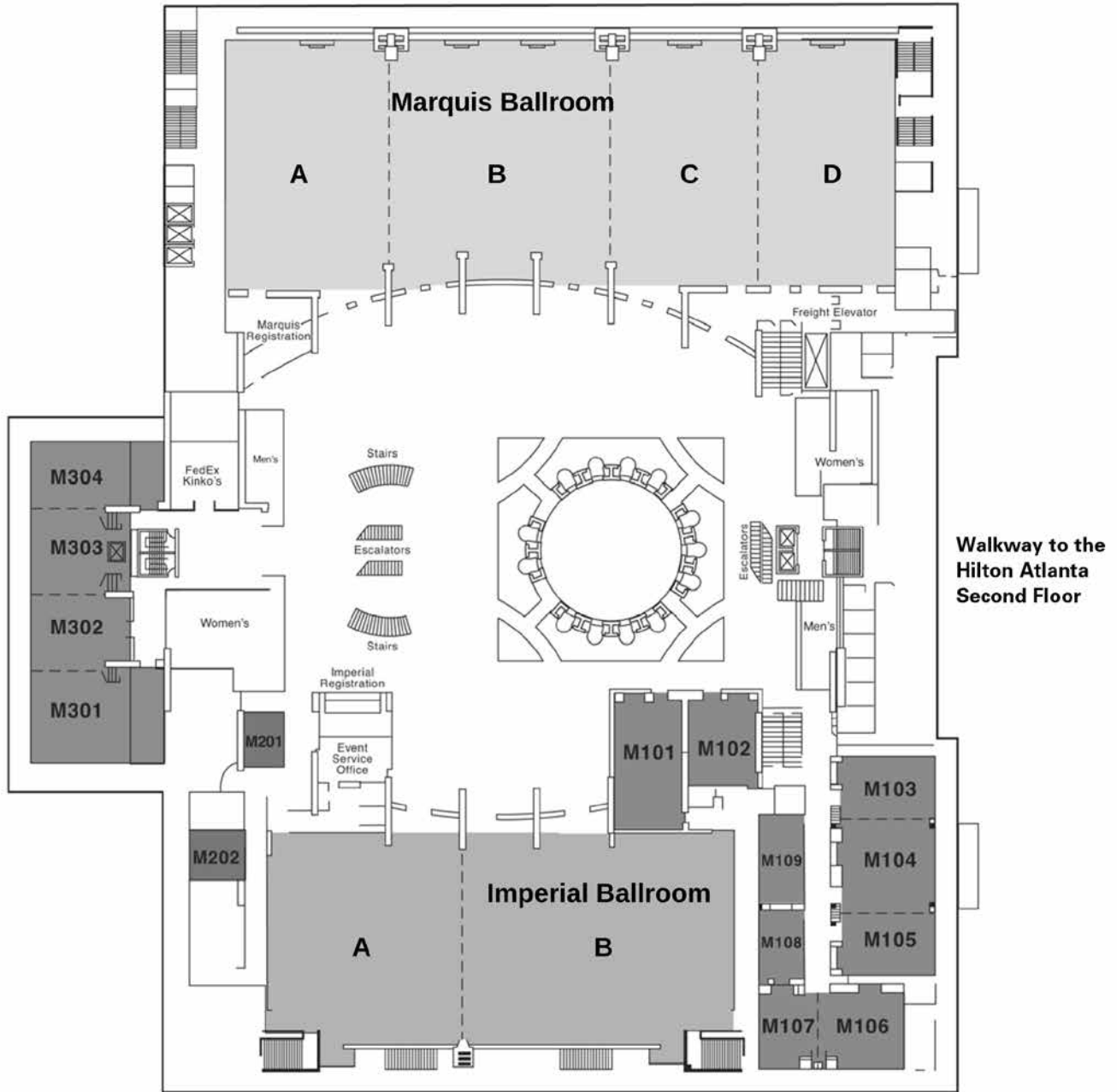
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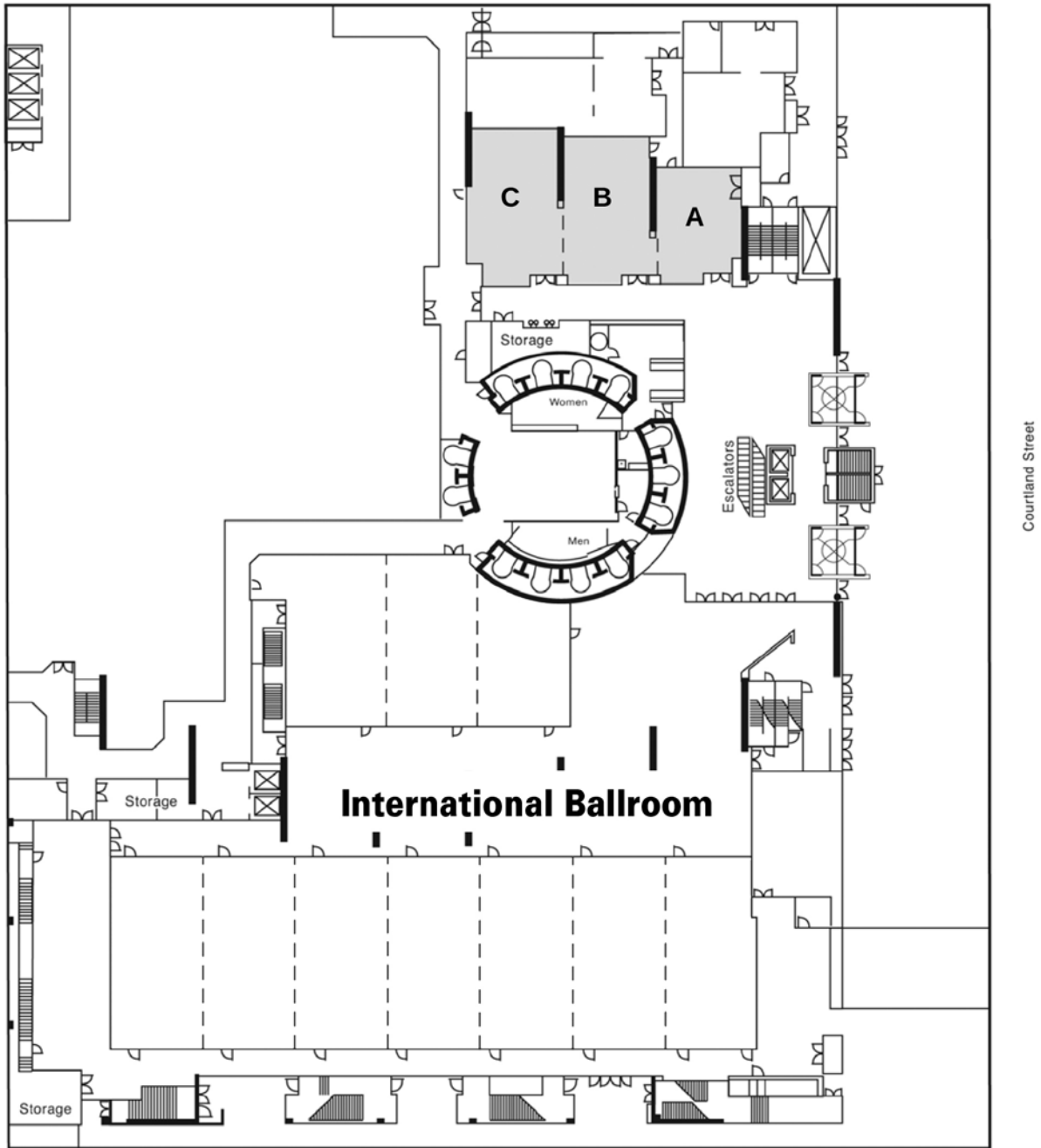
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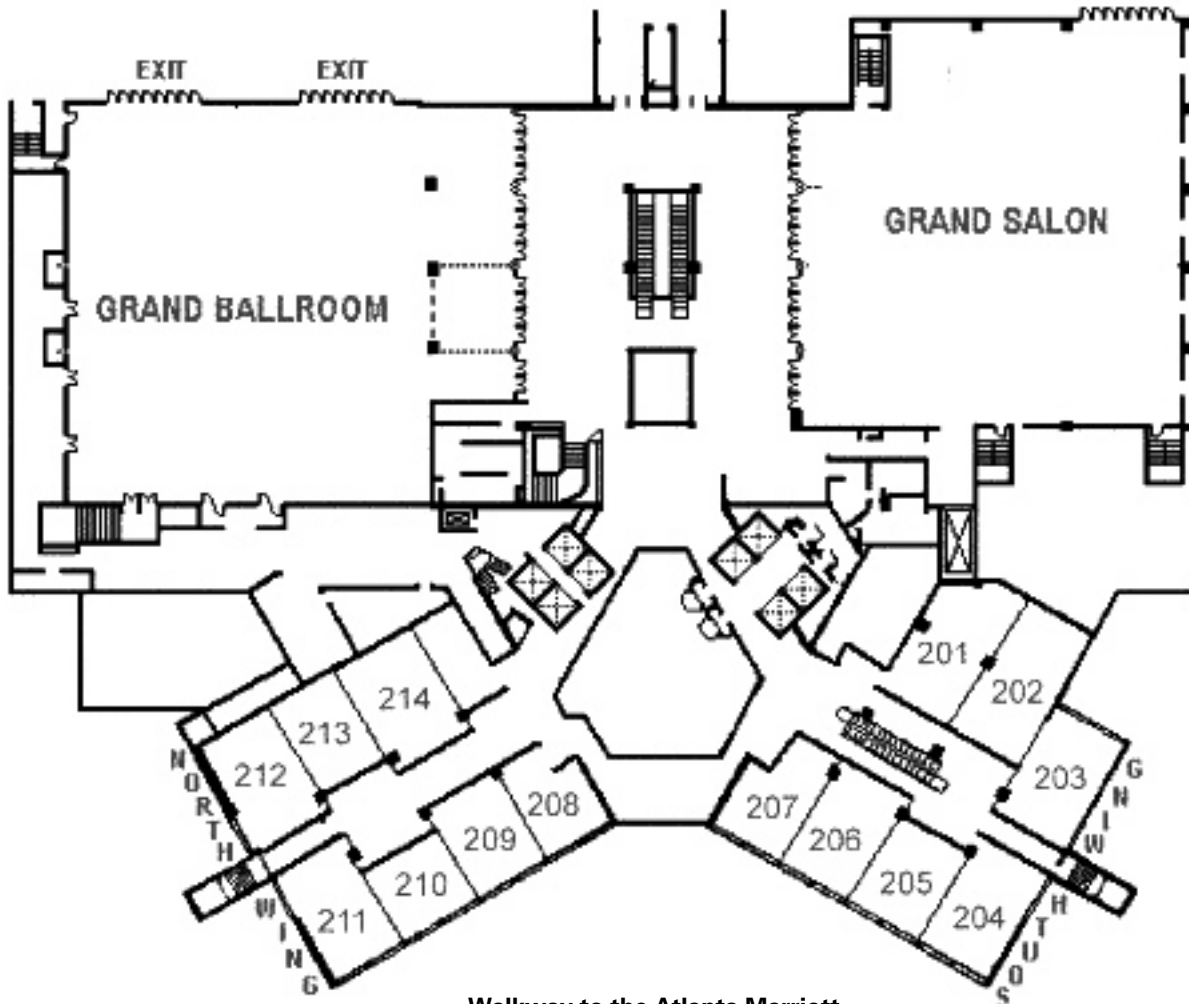


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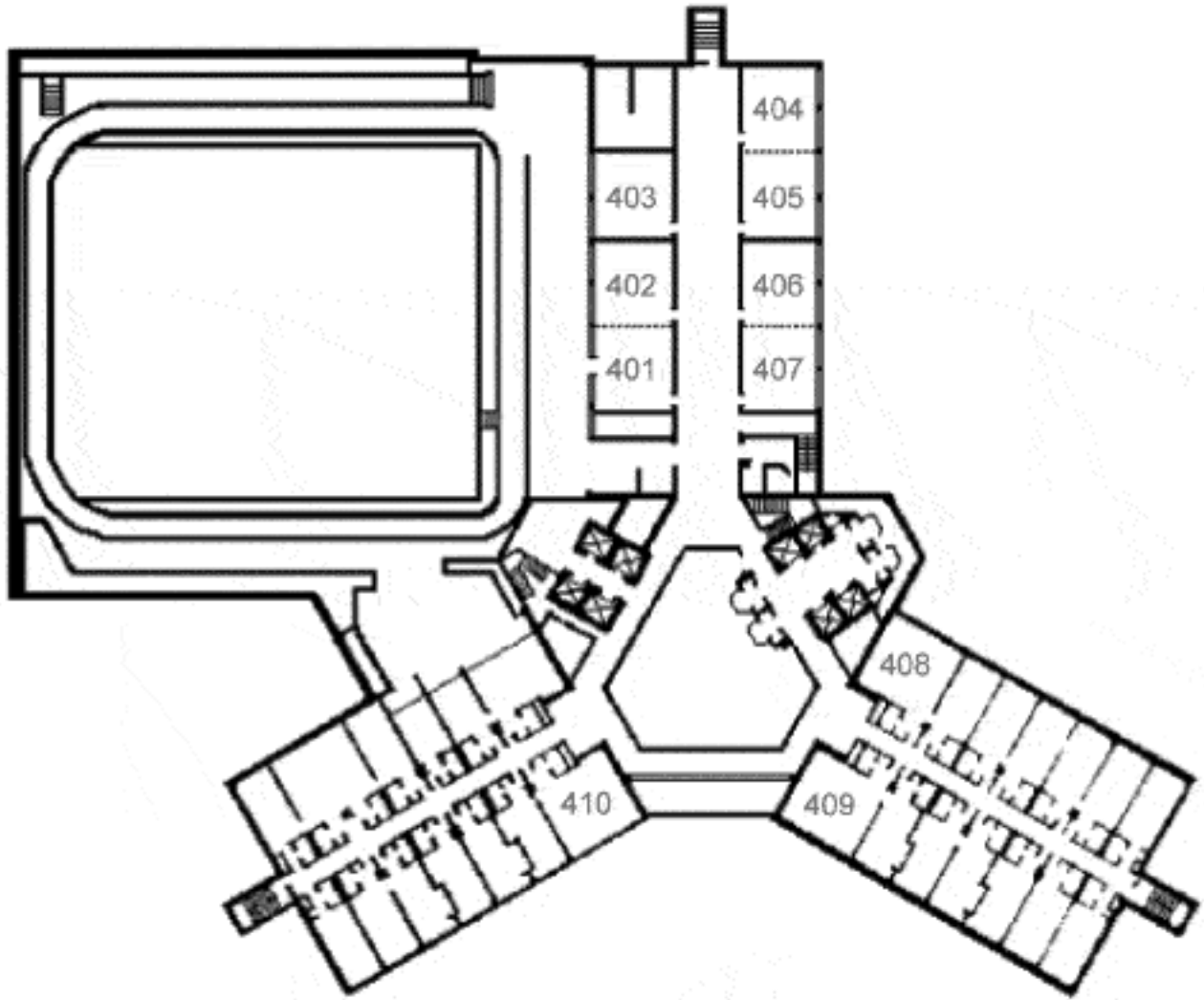


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