



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

VOLUME 97 NOVEMBER 2017 NUMBER 5 SUPPLEMENT

SIXTY-SIXTH ANNUAL MEETING

November 5–9, 2017

The Baltimore Convention Center | Baltimore, Maryland USA



astmh.org
ajtmh.org
#TropMed17



Supplement to
The American Journal of Tropical Medicine and Hygiene

Welcome to TropMed17, our yearly assembly for stimulating research, clinical advances, special lectures, guests and bonus events.

Our keynote speaker this year is Dr. Paul Farmer, Co-founder and Chief Strategist of Partners In Health (PIH). In addition, Dr. Anthony Fauci, Director of the National Institute of Allergy and Infectious Diseases, will deliver a plenary session Thursday, November 9. Other highlighted speakers include Dr. Scott O'Neill, who will deliver the Fred L. Soper Lecture; Dr. Claudio F. Lanata, the Vincenzo Marcolongo Memorial Lecture; and Dr. Jane Cardosa, the Commemorative Fund Lecture.

We are pleased to announce that this year's offerings extend beyond communicating top-rated science to direct service to the global community and a number of novel events:

- **Get a Shot. Give a Shot.®** Through Walgreens' Get a Shot. Give a Shot.® campaign, you can not only receive your free flu shot, but also provide a lifesaving vaccine to a child in need via the UN Foundation's Shot@Life campaign.
- **Under the Net.** Walk in the shoes of a young girl living in a refugee camp through the virtual reality experience presented by UN Foundation's Nothing But Nets campaign.
- **Project Zero.** Huffington Post offers a 360-degree view of three neglected tropical diseases, elephantiasis, river blindness and sleeping sickness, through its Project Zero virtual reality experience.
- **Minutes to Die.** We are screening the new documentary *Minutes to Die* that looks at venomous snakebite through the issues of snakebite victims, researchers at antivenom labs and public officials at the World Health Organization.

TropMed17 also provides attendees with free Wi-Fi, a meeting App and recordings of each session available within 48 hours after the session has taken place. Lastly, we are grateful to our sponsors and exhibitors, who contribute importantly to our meeting and the field. Check out their offerings and information at the Opening Reception, along with complimentary food and drink.

Whatever you're looking for in the world of tropical medicine and global health, you'll find it here. Glad you've joined us.



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



Patricia F. Walker,
MD, DTM&H, FASTMH
President



Karen A. Goraliski
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November 5, 2017

Dear Friends:

It is an honor to welcome everyone to my hometown of Baltimore for the 66th American Society of Tropical Medicine and Hygiene (ASTMH) annual conference. I hope you have the opportunity to explore our great city, and that the conference discussions and sessions contribute to your research and to progress for the field of tropical infectious disease research.

We live in an ever-increasingly interconnected world, where borders mean little with respect to preventing the spread of infectious disease. I applaud the role that ASTMH and its membership play in global health research and development, as well as in promoting preventative policies as we look towards the next global health challenge.

As Ranking Member of the Senate Foreign Relations Committee, I look forward to hearing about the progress made by your membership, while promoting the ideals and goals of ASTMH. My colleagues on both sides of the aisle understand the global health challenges we face, and look to organizations like ASTMH to share their expertise and support for global health.

Best wishes for a successful conference.

Sincerely,

A handwritten signature in black ink that reads "Ben Cardin".

Benjamin L. Cardin
United States Senate



Chris Van Hollen
U.S. Senator

November 2017

Dear Friends:

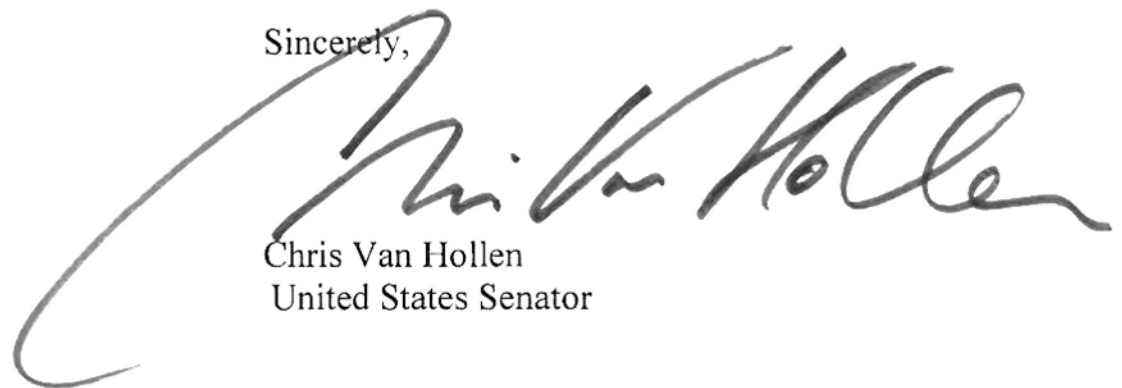
I am delighted to extend my warmest greetings to everyone attending the 66th Conference of the American Society of Tropical Medicine and Hygiene.

This Conference provides an important opportunity for the tropical disease research community to forge new and foster old relationships and collaborations to devise innovative solutions to meet global health challenges. The United States has been a leader in these cutting-edge initiatives, and I applaud these efforts made by contributors of the ASTMH.

I am proud that many of my constituents work in the field of global health as employees of USAID and NIH. The work of these federal agencies to promote global health programs is critical to our collective efforts.

Thank you for all you do to make a difference to others. You have my best wishes for a productive Conference.

Sincerely,



Chris Van Hollen
United States Senator

ASTMH Thanks the Following Sponsors

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GATES *foundation*

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ASTMH Thanks the Following Donors

William A. Petri, Sr. and Dr. Ann E. Petri

Petri Family

Anonymous

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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.

**Meeting App &
 FREE Wi-Fi
 at the
 Convention Center**



ASTMH Membership

Be a Member — Join ASTMH

We invite you to join ASTMH and benefit from membership in the premier international organization for professionals involved in tropical medicine and global health. ASTMH provides a forum for sharing scientific advances, exchanging ideas, fostering new research and providing professional education. Join online at astmh.org or visit the TropMed Hub in booth 411 in the Exhibit Hall for more information.

Advantages of ASTMH Membership

- Active specialty subgroups in the areas of clinical tropical medicine, medical entomology, virology, global health and molecular, cellular and immunoparasitology
- 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: **\$250**

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

Dyan Summers
Zuno Health



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. Members must be permanent residents in their country of citizenship. Visiting researchers or others on short-term assignments do not qualify.

ASTMH Members are Located in 98 Countries Across Six Continents



- | | | | | |
|---|-----------------------------------|-------------------------------------|-----------------------|--------------------------|
| Afghanistan | El Salvador | Ireland | Papua New Guinea | Taiwan R.O.C. |
| Argentina | Equatorial Guinea | Israel | Peru | Tanzania |
| Australia | Eritrea | Italy | Philippines | Thailand |
| Austria | Ethiopia | Ivory Coast | Poland | Trinidad and Tobago |
| Bangladesh | Federated States of
Micronesia | Japan | Qatar | Tunisia |
| Belgium | Fiji | Kenya | Republic of Korea | Uganda |
| Benin | France | Lao People's Democratic
Republic | Rwanda | Ukraine |
| Bolivia | French Guiana | Madagascar | Saint Kitts and Nevis | United Kingdom |
| Botswana | Gabon | Malawi | Saint Lucia | United States of America |
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of the Congo | Honduras | Nigeria | Sudan | |
| Denmark | Hong Kong | Norway | Suriname | |
| Ecuador | India | Pakistan | Swaziland | |
| Egypt | Indonesia | Panama | Sweden | |
| | | | Switzerland | |

ASTMH 66th Annual Meeting

Sunday, November 5, 2017

	Hilton – Johnson	Hilton – Holiday Ballroom 1/2	Hilton – Holiday Ballroom 3	Hilton – Holiday Ballroom 4	Hilton – Holiday Ballroom 5	Hilton – Holiday Ballroom 6	Hilton – Key Ballroom 1/2	Hilton – Paca	Hilton – Chase	Hilton – Stone	
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.	ACAV SIE Meeting	Clinical Pre-Meeting Course P. 74	ASTMH Communications Training Workshop P. 85	Parasitology Pre-Meeting Course P. 75	Arbovirology Pre-Meeting Course P. 73	Global Health Pre-Meeting Course P. 76					
11:30 a.m. – Noon											
Noon – 12:30 p.m.	ACAV SIRACA Meeting										
12:30 – 1 p.m.											
1 – 1:30 p.m.											
1:30 – 2 p.m.											
2 – 2:30 p.m.	ACAV SALS Meeting										
2:30 – 3 p.m.											
3 – 3:30 p.m.											
3:30 – 4 p.m.											
4 – 4:30 p.m.							Student Reception	ACMCIP Council Meeting	ACGH Council Meeting	Clinical Group Council Meeting	
4:30 – 5 p.m.											
5 – 5:30 p.m.											
5:30 – 6 p.m.											
6 – 6:30 p.m.											
6:30 – 7 p.m.											
7 – 7:30 p.m.											
7:30 – 8 p.m.											
8 – 8:30 p.m.											
8:30 – 9:30 p.m.											

ASTMH 66th Annual Meeting

Sunday, November 5, 2017

Schedule-
at-a-Glance

	Convention Center – Swing Hall	Convention Center – Ballroom	Convention Center – Room 318/319	Convention Center – Room 322/323	Convention Center – Room 325/326	Convention Center – Room 328/329	Convention Center – Room 331/332	Convention Center – Room 337/338	Convention Center – Room 339/340	Pratt Street Ale House
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.			Young Investigator Award Session A P. 77	Young Investigator Award Session B P. 78	Young Investigator Award Session C P. 80	Young Investigator Award Session D P. 82	Young Investigator Award Session E P. 83			
12:30 – 1 p.m.								Elsevier Clinical Research Award P. 86		
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.										ACME Council Meeting (3:30 p.m.)
4:30 – 5 p.m.										ACAV Council Meeting (4 p.m.)
5 – 5:30 p.m.										
5:30 – 6 p.m.										
6 – 6:30 p.m.										
6:30 – 7 p.m.										
7 – 7:30 p.m.										
7:30 – 8 p.m.										
8 – 8:30 p.m.										
8:30 – 9:30 p.m.										

1
Plenary Session I: Keynote Address and Awards Program P. 87

Opening Reception and Exhibits

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. Please check the meeting app for program changes.

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

ASTMH 66th Annual Meeting

Monday, November 6, 2017

	Convention Center – Swing Hall	Convention Center – Hall F and G	Convention Center – Ballroom I	Convention Center – Ballroom II	Convention Center – Ballroom III	Convention Center – Ballroom IV	Convention Center – Room 318/319/320	Convention Center – Room 321/322/323
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 9:45 a.m.			2 Symposium New Tools for Malaria Vector Control P. 89	3 Symposium Accelerating Malaria Elimination P. 89	4 Scientific Session Chikungunya and other Alphaviruses P. 90	5 Scientific Session Clinical and Pre-Clinical Assessments of Antimalarials P. 91	6 Symposium Estimating Global Burden of Group B Strep P. 92	7 ACGH I: U.S. Future Role in Global Health and Annual Business Meeting P. 92
	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	15 Symposium Molecules Needed to Control Malaria P. 99	16 Scientific Session Malaria: Immunology P. 100	17 Scientific Session ACMCIP: Malaria and Protozoans– Molecular Biology P. 100	18 Symposium Clinical Update: What's New in Literature? P. 101	19 Symposium Strengthening Surveillance P. 102	20 Symposium ACGH II: Building a Successful Career in Global Health P. 102
Noon – 12:15 p.m.	Exhibit Hall Open and Light Lunch	28 Poster Session A Presentations and Light Lunch P. 108						
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.		Poster Session A Viewing	32 Symposium ACAV I: Annual Business Meeting, Awards and Presentations P. 152	33 Symposium Geospatial Approaches for Modeling Malaria P. 152	34 Symposium Approaches for Understanding and Mitigating Drug-Resistant Malaria P. 153	35 Symposium Adventures in Tropical Dermatology P. 153	36 Scientific Session Malaria: Novel Insights and Methods in Diagnostics P. 154	37 Symposium Antimicrobial Resistance P. 154
	Exhibits Open 3:15 - 4:15 p.m.							
3:30 – 4 p.m.	Coffee Break							
4 – 5:45 p.m.		Poster Session A Dismantle	45 Symposium ACAV II: Tick- Borne Viruses P. 161	46 Alan J. Magill Malaria Eradication Symposium P. 161	47 Scientific Session Malaria: Enhancing and Optimizing Quality of Care P. 162	48 Scientific Session Clinical Tropical Medicine I P. 162	49 Symposium Climate Change and Health: Tracking the Paris Agreement P. 163	50 Symposium Current Molecular Approaches for Tracking Malaria P. 164
5:45 – 6:15 p.m.								
6:15 – 7 p.m.					59 Plenary II Soper Lecture P. 170			
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 66th Annual Meeting

Monday, November 6, 2017

	Convention Center – Room 324/325/326	Convention Center – Room 327/328/329	Convention Center – Room 331/332	Convention Center – Room 337/338	Convention Center – Room 339/340	Convention Center – Room 341/342	Convention Center – Room 343/344
7 – 7:30 a.m.							
7:30 – 8 a.m.							
8 – 9:45 a.m.	8 Scientific Session Other Arthropods P. 93	9 Symposium 15th Annual ACMCIP: Microbiome- Parasite Interactions P. 94	10 Scientific Session Filariasis: Epidemiology and Control I P. 94	11 Scientific Session Cestodes: Cysticercosis and Echinococcosis P. 95	12 Scientific Session Integrated Control Measures for NTDs P. 96	13 Scientific Session Global Health: Community-Based Platforms P. 97	14 Symposium HIV and Liver Diseases P. 98
9:45 – 10:15 a.m.							
10:15 a.m. – Noon	21 Scientific Session Mosquitoes: Vector Biology - Epidemiology I P. 103	22 Scientific Session Dengue: Pathogenesis/ Immunology P. 103	23 Scientific Session Water, Sanitation, Hygiene and Environmental Health I P. 104	24 Scientific Session Protozoa P. 105	25 Symposium STH Control Beyond School-Based Deworming P. 106	26 Scientific Session Burden, Epidemiology and Prevention of Febrile Illness P. 106	27 Scientific Session Schistosomiasis and Trematodes: Transmission and Treatment P. 107
Noon – 12:15 p.m.							
12:15 – 12:30 p.m.							
12:30 – 12:45 p.m.							
12:45 – 1:30 p.m.				29 Late Breakers in Clinical Tropical Medicine and Global Health P. 151	30 Symposium BWF/ASTMH Fellowship and Training P. 151	31 Meet the Professors A P. 152	
1:30 – 1:45 p.m.							
1:45 – 3:30 p.m.	38 Scientific Session Mosquitoes: Vector Biology- Epidemiology II P. 155	39 Scientific Session Dengue: Vaccines/ Epidemiology P. 155	40 Scientific Session Filariasis: Epidemiology and Control II P. 156	41 Scientific Session Kinetoplastida: Diagnosis, Treatment and Vaccines P. 157	42 Scientific Session One Health: Interface of Human Health/ Animal Diseases P. 158	43 Scientific Session ACMCIP: Helminths-Cellular, Molecular and Immunoparasitology P. 159	44 Scientific Session Global Health: From Chagas Disease to Nephropathy P. 160
3:30 – 4 p.m.							
4 – 5:45 p.m.	51 Scientific Session Mosquitoes: Biochemistry and Molecular Biology P. 164	52 Symposium Lessons from the Ebola Survivor P. 165	53 Scientific Session Water, Sanitation, Hygiene and Environmental Health II P. 166	54 Symposium Leaving No One Behind: Key to Achieving NTD Elimination? P. 166	55 Symposium Ethics Case Studies from Africa P. 167	56 Scientific Session ACMCIP: Helminths – Immunology P. 168	57 Scientific Session Global Health: Initiatives, Strategies, Approaches and Tools P. 168
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 All Sessions
Registrants will receive free access to audio recordings of all sessions and slides of select presentations.

ASTMH 66th Annual Meeting

Tuesday, November 7, 2017

	Convention Center – Swing Hall	Convention Center – Hall F and G	Convention Center – Ballroom I	Convention Center – Ballroom II	Convention Center – Ballroom III	Convention Center – Ballroom IV	Convention Center – Room 318/319/320	Convention Center – Room 321/322/323
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 9:45 a.m.			60 Scientific Session ACMCIP: Malaria - Molecular Biology and Infection P. 171	61 Symposium Triple ACTs P. 171	62 Symposium Malaria Rapid Diagnostic Testing P. 172	63 Symposium Clinical Group I: Process and Hurdles in Developing Vaccines/ Marcolongo Lecture P. 172	64 Scientific Session Malaria Epi: Following Trends, Making Predictions P. 173	65 Scientific Session Mosquitoes: Insecticide Resistance and Control P. 174
	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	73 Scientific Session Malaria: Biology and Pathogenesis P. 180	74 Symposium Ivermectin and Mosquitoes P. 181	75 Symposium Tracking the Impact of Seasonal Malaria Chemoprevention P. 182	76 Symposium Clinical Group II: Updates in Clinical Practice P. 182	77 Symposium WHO Global Vector Control Response P. 183	78 Symposium Research Capacity Development: The Sharing Revolution P. 184
Noon – 12:15 p.m.	Exhibit Hall Open and Light Lunch	86 Poster Session B Presentations and Light Lunch P. 190						
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.		Poster Session B Viewing	90 Symposium Transmission Blocking Vaccines P. 235	91 Scientific Session Malaria: Chemotherapy and Drug Resistance - Molecular Biology P. 235	92 Scientific Session Malaria: Defining Strategies for Optimal Diagnostics P. 236	93 Symposium Movement of Tropical Diseases P. 237	94 Scientific Session West Nile and Other Viruses P. 237	95 Symposium Research toward Control of Cryptosporidium P. 238
	Exhibits Open 3:15 – 4:15 p.m.							
3:30 – 4 p.m.	Coffee Break							
4 – 5:45 p.m.		Poster Session B Dismantle	103 Symposium Mechanisms of Immunity to Malaria Vaccine Development P. 243	104 Symposium Monitoring Antimalarial Resistance P. 243	105 Scientific Session Malaria: MDA P. 244	106 Symposium Science is Real: Climate Change Impacts on VBDs P. 245	107 Scientific Session Zika I P. 245	108 Symposium Challenges to Cholera Control and Elimination P. 246
5:45 – 6:15 p.m.								
6:15 – 7 p.m.					117 Plenary III Commemorative Fund Lecture P. 252			
7 – 7:15 p.m.								
7:15 – 8 p.m.								
8 – 8:30 p.m.			118 Special Session <i>Minutes to Die</i> Documentary Film P. 252	118A Symposium Harvey, Irma and Maria: Direct Impacts and Global Health Implications of Climate Change and Extreme Weather Events P. 252				
8:30 – 9 p.m.								

ASTMH 66th Annual Meeting

Tuesday, November 7, 2017

	Convention Center – Room 324/325/326	Convention Center – Room 327/328/329	Convention Center – Room 331/332	Convention Center – Room 337/338	Convention Center – Room 339/340	Convention Center – Room 341/342	Convention Center – Room 343/344	Convention Center – Holiday Ballroom 1
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 9:45 a.m.	66 Symposium Mechanisms of Post-Discharge Mortality and Possible Interventions P. 175	67 Scientific Session Ebola and Rotaviruses P. 176	68 Scientific Session Bacteriology: Trachoma P. 176	69 Symposium Verifying the Elimination of NTDs: Implications for Sampling P. 177	70 Symposium Novel Datasets to Study Tick-Borne Diseases P. 178	71 Symposium The Sanitation Hygiene Infant Nutrition Efficacy Trial P. 178	72 Symposium The Full Public Health Value of Vaccines P. 179	
9:45 – 10:15 a.m.								
10:15 – Noon	79 Scientific Session Schistosomiasis: Epidemiology, Control and Diagnostics P. 184	80 Symposium Fogarty: Advancing Multidisciplinary Research P. 185	81 Scientific Session Bacteriology: Other P. 186	82 Scientific Session Mosquitoes: Molecular Genetics and Genomics P. 187	83 Scientific Session Filariasis: Clinical P. 187	84 Scientific Session Kinetoplastida: Molecular Biology and Immunology P. 188	85 Pneumonia, Respiratory Infections and Tuberculosis P. 189	
Noon – 12:15 p.m.								
12:15 – 12:30 p.m.								
12:30 – 12:45 p.m.				87 Late Breakers in Basic Science and Molecular Biology P. 234	88 Career Trajectories and Work-Life Balance P. 234	89 Meet the Professors B P. 234		
12:45 – 1:30 p.m.								
1:30 – 1:45 p.m.								
1:45 – 3:30 p.m.	96 Symposium Safely Feeding the Planet P. 239	97 Symposium ACME I: Annual Business Meeting, Awards, Hoogstraal Medal P. 239	98 Symposium Frank Discussion: Global Health Care Leaders P. 239	99 Symposium Big Data to Enhance Epidemic Surveillance and Public Health P. 240	100 Scientific Session Filariasis: Molecular Biology, Immunology and Diagnostics P. 241	101 Symposium Progress in Child Mortality through CHAMPS Surveillance P. 241	102 Symposium Pregnancy and Infectious Disease P. 242	
3:30 – 4 p.m.								
4 – 5:45 p.m.	109 Symposium Evidence-Based Stratification of Malaria Risk P. 247	110 Symposium ACME II: New and Young Investigators in Medical Entomology P. 248	111 Symposium Cystic Echinococcosis: Advocacy to Action P. 248	112 Symposium The USAID NTD Program: Lessons Learned and New Directions P. 249	113 Scientific Session Ectoparasite-Borne Diseases P. 250	114 Symposium Etiology and Prevention of Neonatal Infections P. 250	115 Symposium Follow-Up Tools for Surgical Quality Assurance P. 250	
5:45 – 6:15 p.m.								5 p.m. 116 Speed-Networking with the Experts P. 251
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.								

ASTMH 66th Annual Meeting

Wednesday, November 8, 2017

	Convention Center – Swing Hall	Convention Center – Hall F and G	Convention Center – Ballroom I	Convention Center – Ballroom II	Convention Center – Ballroom III	Convention Center – Ballroom IV	Convention Center – Room 318/319/320	Convention Center – Room 321/322/323
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 9:45 a.m.			119 Scientific Session Malaria: Advances in Modeling P. 253	120 Symposium Quantifying Immunity to Malaria P. 254	121 Symposium School-Based Malaria Interventions P. 254	122 Symposium Translational Research Initiatives in Travel Medicine P. 255	123 Scientific Session Zika II P. 256	124 Symposium Medical Education and Public Health Challenges in Iraq P. 256
	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	132 Symposium Approaches to Malaria Elimination P. 261	133 Symposium Moving Toward a PfSPZ Malaria Vaccine for Protecting Travelers/ Elimination Campaigns P. 262	134 Scientific Session Malaria: Prevention P. 262	135 Symposium Lessons Learned from Dengue Vaccination Programs P. 263	136 Symposium Innovative Approaches to Resistance Management P. 264	137 Scientific Session Malaria: Genetics and Genomics P. 265
Noon – 12:15 p.m.	Exhibit Hall Open and Light Lunch (Noon – 2:30 p.m.)	145 Poster Session C Presentations and Light Lunch P. 270						
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.		Poster Session C Viewing	149 Scientific Session Malaria: Chemotherapy and Drug Resistance-Clinical Studies P. 314		150 Scientific Session Malaria Elimination: Tools and Evidence P. 315	151 Scientific Session Malaria: Vaccines P. 316	152 Symposium Disrupting the Paradigm: Bite Prevention for Malaria Control P. 317	153 Scientific Session Soil-Transmitted Helminths: Biology and Immunology P. 318
3:30 – 4 p.m.								
4 – 5:45 p.m.		Poster Session C Dismantle by 5 p.m.	161 Scientific Session Malaria: Epidemiology - Measuring Changes P. 323	162 Symposium Landscape of the Druggable <i>Plasmodium</i> Genome P. 324	163 Symposium Burden and Control of Malaria in Pregnancy in Asia P. 325	164 Symposium Challenges in Medical Humanitarian Settings P. 325	165 Symposium Lassa Fever: A New Look at an Old Disease P. 326	
5:45 – 6:15 p.m.								
6:15 – 7 p.m.					174 Plenary IV President's Address Annual Business Meeting P. 331			
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 66th Annual Meeting

Wednesday, November 8, 2017

	Convention Center – Room 324/325/326	Convention Center – Room 327/328/329	Convention Center – Room 331/332	Convention Center – Room 337/338	Convention Center – Room 339/340	Convention Center – Room 341/342	Convention Center – Room 343/344
7 – 7:30 a.m.							
7:30 – 8 a.m.							
8 – 9:45 a.m.	125 Symposium <i>Wolbachia</i> for Biocontrol of Arboviruses P. 257	126 Symposium Chagas: Regional Differences in Research and Patient Care P. 257	127 Symposium Meliodosis - An Emerging Threat P. 258	128 Symposium New Tools for Global Filariasis Elimination P. 258	129 Symposium Efficacy of Drugs in STH Control Programs P. 259	130 Symposium Clinical Trials in Pregnant Women P. 259	131 Symposium Acute Febrile Illness and Encephalitis Surveillance in India P. 260
9:45 – 10:15 a.m.							
10:15 a.m. – Noon	138 Symposium Controlling Typhoid: New Insights on Vaccines P. 265	139 Symposium Improving Triage through Point-of- Care Technologies P. 266	140 Symposium Household Air Pollution and Health P. 267	141 Symposium Interim Strategies on Onchocerciasis Elimination in Africa P. 267	142 Symposium Schistosomiasis Control in the 21st Century P. 268	143 Scientific Session HIV and Tropical Co-Infections P. 268	144 Symposium International Zika Cohort Studies in Pregnant Women P. 269
Noon – 12:15 p.m.							
12:15 – 12:30 p.m.							
12:30 – 12:45 p.m.				146 Late Breakers in Malaria P. 314	147 Meet the Editors P. 314	148 Meet the Professors C P. 314	
12:45 – 1:30 p.m.							
1:30 – 1:45 p.m.							
1:45 – 3:30 p.m.	154 Symposium Emerging Tick-Borne Infections P. 319	155 Symposium The Dengue Controlled Human Infection Model P. 319	156 Scientific Session Kinetoplastida: Epidemiology and Diagnosis P. 320	157 Symposium Global Elimination of Trachoma: Refocusing the End Game P. 320	158 Symposium Praziquantel Studies in Children and Mothers with Schisto P. 321	159 Symposium Immigration and Chagas Disease P. 322	160 Symposium Innovative Approaches to Encourage Public Engagement P. 322
3:30 – 4 p.m.							
4 – 5:45 p.m.	166 Symposium Neurocysticercosis: IDSA/ASTMH Guidelines P. 326	167 Symposium Building Clinical Trial Capacities in Africa P. 327	168 Symposium Operationalizing One Health: Tools in Global Health Security P. 327	169 Symposium Factors that Motivate Community Drug Distributors in NTDs P. 328	170 Symposium WASH Benefits Study P. 328	171 Symposium The Washington, DC Primer: Advocating for R&D Funding P. 329	172 Scientific Session Bacteriology: Cholera P. 330
5:45 – 6:15 p.m.							
6:15 – 7 p.m.	<p>Online Meeting Program</p> <p>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.							
7:15 – 8 p.m.	<p>Meeting App</p> <p>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>						
8 – 8:30 p.m.							
8:30 – 9 p.m.	<p>Program Changes</p> <p>Times and/or locations of activities or sessions are subject to change. Please check the meeting app for program changes.</p>						
9 – 9:30 p.m.	<p>Online Abstract Book</p> <p>The Annual Meeting Abstract Book is accessible at astmh.org/annual-meeting. View the full text of the abstracts presented.</p>						

ASTMH 66th Annual Meeting

Thursday, November 9, 2017

	Convention Center - Pratt Street West Lobby	Convention Center – Ballroom II	Convention Center – Ballroom III	Convention Center – Ballroom IV	Convention Center – Room 318/319/320	Convention Center – Room 321/322/323	Convention Center – Room 324/325/326	Convention Center – Room 327/328/329
7 – 7:30 a.m.								
7:30 – 8 a.m.								
8 – 9:45 a.m.		175 Scientific Session Malaria: Mosquito Transmission and Interruption P. 332	176 Symposium Swift, Wide and Deep: Large-Scale Genetic Data from Complex Samples P. 333	177 Scientific Session Clinical Tropical Medicine II P. 333	178 Symposium Household Enumeration for Targeted Interventions P. 334	179 Symposium Rotavirus Vaccine Impact on Diarrhea in Africa P. 335	180 Scientific Session Mosquitoes: Operational Control P. 335	181 Symposium Lasers, Rays and Dyes: Tools to Fight Falsified Medicines P. 336
9:45 – 10:15 a.m.	Coffee Break							
10:15 – 11.00 a.m.			187 Plenary Session V P. 340					
11:15 a.m. – Noon		188 Scientific Session Malaria: Applications of Innovative Technologies P. 340	189 Symposium Taking Innovations to Market: Ebola and Zika Grand Challenges P. 341	190 Symposium Epidemic of Cancer in Africa P. 342	191 Symposium Clinico- Epidemiologic Studies and Laboratory Diagnosis of Zika P. 342	192 Scientific Session ACMCIP: Malaria and Protozoal Diseases – Biology and Pathogenesis P. 343	193 Symposium Deciphering Immune Responses by Diarrheal Pathogens P. 344	

Project Zero

Convention Center – Pratt Street Lobby

Don't miss the latest virtual reality (VR) films by *HuffPost's* Project Zero, an ongoing series created to raise awareness around neglected tropical diseases and efforts to fight them. Three 360-degree VR films tell the untold stories of the victims and health workers battling elephantiasis, river blindness and sleeping sickness in some of the most remote and underdeveloped regions of the world. Explore the challenges of and progress toward eliminating these diseases in an experience provided through the VR format.

**PROJECT
ZERO**

HUFFPOST

ASTMH 66th Annual Meeting

Thursday, November 9, 2017

	Convention Center – Room 331/332	Convention Center – Room 337/338	Convention Center – Room 339/340	Convention Center – Room 341/342	Convention Center – Room 343/344	Hilton – Holiday Ballroom Salon 6
7 – 7:30 a.m.						
7:30 – 8 a.m.						Council Meeting
8 – 9:45 a.m.	182 Scientific Session Soil-Transmitted Helminths: Epidemiology and Control P. 337	183 Scientific Session ACMCIP: Kinetoplastida – Molecular, Cellular and Immunobiology P. 337	184 Symposium Update on Pneumonia Innovations 2017 P. 338	185 Symposium New Approaches to Health Impact Measurement in WASH Trials P. 338	186 Scientific Session Bacteriology: <i>Salmonella</i> / Typhoid Fever P. 339	
9:45 – 10:15 a.m.						
10:15 – 11.15 a.m.						
11:15 a.m. – Noon	194 Symposium NTDs and Micronutrient Malnutrition: The Dual Burden P. 344	195 Scientific Session Schistosomiasis: Immunology and Pathology P. 345	196 Symposium Preparing for Next Epidemic: Military and Civilian Partnerships P. 346	197 Symposium Seroepidemiology to Guide Public Health Action P. 346		

Get a Shot Give a Shot®

Convention Center – Pratt Street Lobby

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed17 is giving attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

Walgreens
GET A SHOT
GIVE A SHOT®

shot
@life

UNITED NATIONS
FOUNDATION

Under the Net

Convention Center – Pratt Street Lobby

Walk in the shoes of 11-year-old Amisa, a refugee living in the Nyarugusu Refugee Camp in Tanzania, through a virtual reality experience (VR) presented by the UN Foundation's Nothing But Nets campaign. *Under the Net* is the story of Amisa, her mother and six siblings as they struggle to survive each day with no protection from mosquitoes that carry malaria at night. Be sure to stop by the Nothing But Nets exhibit and watch Amisa's story through her eyes — as only VR can present it.

UNITED NATIONS
FOUNDATION

Nothing
ButNets.net
SEND A NET. SAVE A LIFE.

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

Meeting Room Directory

Baltimore Convention Center

Level 100

Swing Hall (Exhibit Hall)
Exhibit Hall F and G (Poster Hall)

Level 200

Skywalk to Sheraton Inner Harbor and Inner Harbor Shops

Level 300

Skywalk to Hilton Baltimore Second Floor – East Building
Pratt Street West Lobby (Registration)
Pratt Street West Lobby Foyer (TropStop Student Lounge)
Room 318/319/320
Room 321/322/323
Room 324/325/326
Room 327/328/329
Room 330 (Press Room)
Room 331/332
Room 334
Room 335
Room 336 (Speaker Ready Room)
Room 337/338
Room 339/340
Room 341/342
Room 343/344
Room 345
Room 346

Level 400

Ballroom I
Ballroom II
Ballroom III
Ballroom IV

Hilton Baltimore

First Floor – East Building

Johnson A
Johnson B
Latrobe
Peale A
Peale B
Peale C
Ruth

Second Floor – East Building

Skywalk to Baltimore Convention Center
Blake
Calloway A
Calloway B
Holiday Ballroom 1
Holiday Ballroom 2
Holiday Ballroom 3
Holiday Ballroom 4
Holiday Ballroom 5
Holiday Ballroom 6
Mencken (Lactation Room)

Second Floor – West Building

Armistead
Key Ballroom 1
Key Ballroom 2
Key Ballroom 3
Key Ballroom 4
Key Ballroom 5
Key Ballroom 6
Key Ballroom 7
Key Ballroom 8
Key Ballroom 9
Key Ballroom 10
Key Ballroom 11
Key Ballroom 12
Pickersgill

Third Floor – West Building

Brent
Carroll A
Carroll B
Chase
Douglass
Hopkins
Marshall
Paca
Stone
Tilghman
Tubman A
Tubman B

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*

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

President-Elect*

Regina Rabinovich
*Harvard T.H. Chan School of Public
Health, United States*

Immediate Past President*

Stephen Higgs
Kansas State University, United States

Secretary-Treasurer

David R. Hill
Quinnipiac University, United States

Chair, Scientific Program Committee

Daniel G. Bausch
*UK Public Health Rapid Support Team,
United Kingdom*

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

Philip Rosenthal
*University of California San Francisco,
United States*

Executive Director

Karen A. Goralesski

Councilors

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

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

Abdoulaye Djimde* (2016-2020)
*University of Science, Techniques and
Technologies of Bamako, Mali*

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

Julie Jacobson* (2016-2020)
*Bill & Melinda Gates Foundation,
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: Gonzalo Vazquez-Prokopec
Emory University, United States*

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)

*President: Christine Petersen
University of Iowa, United States*

American Committee on Arthropod-Borne Viruses (ACAV)

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

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

*President: John Sanders
Wake Forest University, United States*

ASTMH Committee on Global Health (ACGH)

*President: Christina Polyak
Walter Reed Army Institute of Research
Military HIV Research Program,
United States*

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. 2017 Fellows will be announced and recognized at the Awards Program on Sunday, November 5.

2016 Fellows

Elizabeth Barnett, *Boston Medical Center, United States*

Stephen M. Beverley, *Washington University School of Medicine, United States*

Carol D. Blair, *Colorado State University, United States*

Donald S. Burke, *University of Pittsburgh, United States*

Martin Cetron, *Centers for Disease Control and Prevention, United States*

Barnett L. Cline, *Past President of ASTMH, United States*

Daniel G. Colley, *University of Georgia, United States*

Joseph A. Cook, *Past President of ASTMH, United States*

John R. David, *Harvard School of Public Health, United States*

Timothy P. Endy, *SUNY Upstate Medical University, United States*

David A. Fidock, *Columbia University Medical Center, United States*

Duane J. Gubler, *Harvard School of Public Health, United States*

Richard L. Guerrant, *University of Virginia Medical School, United States*

Scott B. Halstead, *Dengue Vaccine Initiative, United States*

Stephanie James, *Foundation for the National Institutes of Health, United States*

Karl M. Johnson, *Past President of ASTMH, United States*

Irving G. Kagan, *Past President of ASTMH, United States*

Peter J. Krause, *Yale School of Public Health, United States*

Carole A. Long, *National Institutes of Health, United States*

Claire B. Panosian, *University of California Los Angeles, United States*

Frank O. Richards, *The Carter Center, United States*

Philip Russell, *Sabin Vaccine Institute, United States*

G. Dennis Shanks, *Australian Army Malaria Institute, United States*

Donald S. Shepard, *Brandeis University, United States*

Mary M. Stevenson, *McGill University, United States*

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

Karl A. Western, *National Institute of Allergy and Infectious Diseases, United States*

ASTMH Organizational Chart

A. Clinton White, *University of Texas
Medical Branch, United States*

Dyann Wirth, *Harvard School of Public
Health, United States*

ASTMH Staff

Karen A. Goraleski, *Executive Director*

Tonya Cabrera, *Assistant Conference
Administrator*

Madhuri Carson, *Manager, Partnership
Opportunities*

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*

Lynn Pike, *Controller*

Lauren Rich, *Coordinator, Partnership
Opportunities*

Graham Schofield, *Group Controller*

Rhonda Schultz, *Coordinator, Awards
and Fellowships*

Cathi Siegel, *AJTMH Managing Editor*

Chris Viglione, *Meeting Manager*

Rita Wallace, *Accounts Receivable
Administrator*

Additional Annual Meeting Onsite Support

Heather Currier, *Assistant Meeting
Manager, Kellen*

Jill Hronek, *Assistant Meeting Manager,
Kellen*

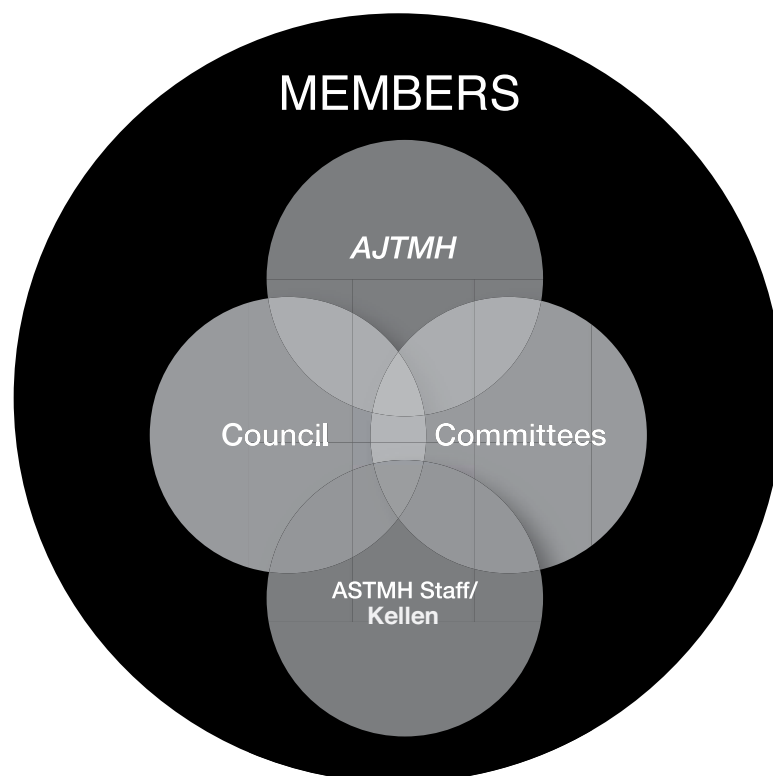
Matthew Davis, *Burness*

Bridget DeSimone, *Burness*

Gideon Hertz, *Burness*

Nick Seaver, *Burness*

Preeti Singh, *Burness*



AGAIN THIS YEAR!

**Meeting App &
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Convention Center**



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.

Gonzalo Vazquez-Prokopec, Chair and Councilor
Philip Armstrong, *Chair-Elect*; Lyric Bartholomay, *Past Chair*; Alvaro Molina-Cruz, *Secretary-Treasurer*; Maria Diuk Wasser, *Councilor*; Rebekah Kading, *Councilor*; Michael Reddy, *Councilor*; Philip Armstrong, *Councilor*; Michel Slotman, *Councilor*; Kate Aultman, *Councilor*; Alvaro Molina-Cruz, *Councilor*; Jason Richardson, *Councilor*; Laura Harrington, *Councilor*; Matt Thomas, *Councilor*; Diana Ortiz, *Councilor*; Gonzalo Vazquez-Prokopec, *Hoogstraal Medal Coordinator*; Lyric Bartholomay, *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.

Christine Petersen, President
Julian Rayner, *Past President and Secretary-Treasurer*; Manoj Duraisingh, *Councilor*; Rick Fairhurst, *Councilor*; Michael Ferdig, *Councilor*; Timothy Yoshino, *Councilor for Communications*; Richard Davis, *Councilor for Trainees*

American Committee on Arthropod-Borne Viruses (ACAV)

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

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

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.

John Sanders, President
David Brett-Major, *President-Elect*; Duane Hospenthal, *Past President*; Latha Rajan, *Secretary-Treasurer*; Frederique Jacquerioz, *Councilor*; Miguel Cabada, *Councilor*; Janine Danko, *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.

Christina Polyak, President
Ramin Asgary, *President-Elect*; Juliette Morgan, *Past President*; Leslie Enane, *Secretary-Treasurer*; Koya Allen, *Councilor*; Daouda Ndiaye, *Councilor*; Ryan Carroll, *Councilor*; Abiola Fasina, *Councilor*

Administration

Clinical Standards and Treatment Guidelines

Ed Ryan, Chair
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 Nachege; William Stauffer; Joseph Vinetz; Mary Wilson

American Journal of Tropical Medicine and Hygiene

Section Editors: Bradley Blitvich; Aaron Brault; J. Stephen Dumler; Duane Hospenthal; James Kazura; Miriam Laufer; Regina Rabinovich; John Sanders; Thomas Scott; Christine Stauber; Maxine Whittaker; Mary Wilson

Editorial Staff: Philip Rosenthal (Editor-in-Chief); Joseph Vinetz (Associate Editor); Cathi Siegel (Managing Editor); Alison Jaeb (Editorial Assistant); Daniel Tisch (Biostatistical Editor)

Editorial Board: Jonathan Berman; Brett Forshey; Hector Garcia; Eric Halsey; Patrick Lammie; Philip LoVerde; Alan Magill (In Memoriam); Steven Meshnick; Thomas Nutman; Rebecca Rico-Hesse; Terrie Taylor; Robert Tesh; David Walker; A. Clinton White

Nominations

Christopher Plowe, Chair
Lin Chen; Hector Gorbea; Anthony James; Kent Kester; Eva Harris; Stephen Higgs; Moses Kamya; Rebecca Rico-Hesse; Rick Fairhurst; Kyaw Zin Thant; Sarah Volkman

ASTMH Subgroups and Committees (cont.)

Annual Meeting

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

Robert Tesh, Chair

Donald Burke; David Freedman (Gorgas representative); Peter Hotez; William Petri

Scientific Program

Daniel G. Bausch, Chair

Stephanie Yanow, Assistant Chair

See full committee roster on page 26.

Travel Awards

Nirbhay Kumar, Chair

James Burns; John Donelson; Erin Eckert; Brian Foy; Nisha Garg; Kent Kester; Sanjai Kumar; 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

Ed Mitre, Chair

Jeffrey Bailey; Vitaliano Cama; Peter Crompton; Stephen Davies; Nicole Gottendenker; Rebekah Kading; Albert Ko; Matthew Laurens; Naomi Lucchi; David Narum; Miranda Oakley; Roshanak Semnani; Prakash Srinivasan; Anne Stewart; Ned Walker; Elia Wojno

Awards and Professional Recognition

Medals

Stephanie James, Chair

Christopher Plowe; Stephen Higgs

Communications Award

Peter Hotez and Karen A. Goraleski, Co-Chairs

Caroline Ash; Philip Coyne; Brian Foy; Heather Jameson; Kathryn McGrath; Kristy Murray

CTropMed® Examination

Susan McLellan, Chair

David Boulware; Lin Chen; Robert DeFraitte; David Freedman; Patrick Hickey; Patricia Joyce; Jeffrey Jones; Gregory Juckett; Amy Klion; Walter Kuhn; Gregory Martin; Obinna Nnedu; Matthew Rollosos; Reinaldo Rosas; Carlos Rossi; Bonnie Smoak

Certificate Exam Credentialing Committee

Susan McLellan, Chair

Larry Laughlin; John Sanders; Herbert Tanowitz

Certificate Exam Executive Committee

Susan McLellan, Chair

David R. Hill; Larry Laughlin; Susan McLellan; John Sanders

Diploma Course Certification Committee

Susan McLellan, Chair

David Freedman; Richard Guerrant; Donald Krogstad; Anne McCarthy; Alan Spira

Clinical Tropical and Travel Medicine Education Program Committee

John Sanders, Chair

Christina Coyle; Michael Libman; Susan McLellan; Lin Chen; Patrick Hickey; Latha Rajan

Courses

Courses Committee

Christina Coyle and Michael Libman, Co-Chairs

Daniel G. Bausch; David Brett-Major; Philip Coyne (CME Liaison); Rick Fairhurst; David R. Hill; Louise Ivers (CME Liaison); Christopher King, John Sanders

Update Course in Clinical Tropical Medicine and Travelers' Health

Christina Coyle and Michael Libman, Co-Chairs

Education/Fellowships/Grant Awards

Alan J. Magill Fellowship

Kent Kester, Chair

Janiine Babcock; Mark Fukuda; Andres Lescano; Bruno Moonen (non-voting); Christopher Plowe; Rick Steketee; Mahamadou Thera; Sarah Volkman; Karen A. Goraleski

Benjamin H. Kean Travel Fellowship in Tropical Medicine

Desiree LaBeaud, Chair

James Cummings; Arlene Dent; Michael Hawkes; Colette Kean; Miriam Laufer; Mark Polhemus; Mark Travassos

ASTMH Subgroups and Committees (cont.)

Burroughs Wellcome Fund-ASTMH Fellowship

Joseph Tucker, Chair

Ravi Durvasula; Molly Hughes; Victoria McGovern; Dan Milner;
Joseph Vinetz; Mary Wilson

Centennial Travel Award

Joseph Vinetz, Chair

David Fidock; D.J. Perkins; Sarah Volkman

Robert E. Shope International Fellowship

Ann Powers, Chair

Charles Calisher; Thomas Scott; Richard Shope; Tom Yuill

Membership

Fellows

David R. Hill, Chair

Josh Berman; Stephen Higgs; Laura Kramer; Rick Steketee;
Mary Wilson

Honorary International Fellow of ASTMH

Myron Levine, Chair

John Aaskov; Yaowalark Sukthana

Membership

David R. Hill, Chair

Daniel 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

Ad Hoc

Awards Task Force

Patricia F. Walker, Chair

Nicole Achee; Serap Aksoy, Myriam Arevalo-Herrera; Kate
Aultman; Stephen Higgs; David R. Hill; Julie Jacobson;
Christopher Plowe; Ann Powers; Julian Rayner; Laurence
Slutsker; Mahamadou Thera; Sarah Volkman; Stephanie
Yanow; Karen Goraleski

International Task Force

Nicole Achee, Co-Chair

Abdoulaye Djimde, Co-Chair

Daniel G. Bausch; David R. Hill; David Fidock; Andres Lescano;
Pauline Mwinzi; Philip Rosenthal

Student Task Force

David Fidock, Chair

Julian Rayner; Katherine Taylor; Stephanie Yanow

BACK AGAIN!
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FREE Audio
Recordings of
Sessions



ASTMH 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,
UK Public Health Rapid Support Team



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 Hospital and Medical Center*
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
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*
Jiannong Xu, *New Mexico State University*

Filariasis

Chair: LeAnne Fox, *Centers for Disease Control and Prevention*
Subash Babu, *NIH-NIRT-ICER*
Peter Fischer, *Washington University*
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 Measures for 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: David Abraham, *Thomas Jefferson University*
Enrico Brunetti, *University of Pavia*
Siddhartha Mahanty, *University of Melbourne*
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*
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

Co-Chair: Naomi Forrester, *University of Texas Medical Branch*
Co-Chair: Rebekah Kading, *Colorado State University*

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*

ASTMH Scientific Program Committee (cont.)

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

Sanjai Kumar, Food and Drug Administration

Yimin Wu, PATH Malaria Vaccine Initiative

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

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

Dylan Pillai, University of Calgary

Niraj Tolia, Washington University

Kim Williamson, Uniformed Services University of the Health Sciences

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 Pennsylvania

Pneumonia, Respiratory Infections and Tuberculosis

Chair: Robert Breiman, Emory University

Abdullah Brooks, Johns Hopkins Bloomberg School of Public Health

David 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

Emily McDonald, Rhode Island Hospital

Virology

Chair: Greg Ebel, Colorado State University

Anna Durbin, Johns Hopkins Bloomberg School of Public Health

Sharone Green, University of Massachusetts

Maria Guzman, "Pedro Kouri" Tropical Medicine Institute

Christopher Mores, Louisiana State University/Naval Medical Research Unit #6

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 School of Public Health

Eric Mintz, Centers for Disease Control and Prevention

Christine Moe, Emory University

ASTMH Fellowships, Travel Awards, and Grants

Alan J. Magill Fellowship

ASTMH is pleased to announce the first Magill Fellow, to be recognized at the Opening Plenary Session on Sunday.

2017 Recipient



Pedro Aide, *Centro de Investigacao em Saude de Manhica (CISM), Maputo, Mozambique*

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

Selection Committee Chair: Kent Kester, Sanofi Pasteur, United States

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

BILL & MELINDA
GATES foundation

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.

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

BILL & MELINDA
GATES foundation

Adamu Addissie, *Addis Ababa University, Ethiopia*
Abstract 352

Mensah Ahadji-Dabla, *University of Lomé, Togo*
Abstract 180

Tahmina Ahmed, *International Centre for Diarrhoeal Disease Research, Bangladesh*
Abstract 597

Roberto Alcántara, *Universidad Peruana Cayetano Heredia, Peru*
Abstract 572

Denise Alvarenga, *FIOCRUZ, Brazil*
Abstract 361

Tiffany Borbon, *University of Iowa Carver College of Medicine, United States*
Abstract 771

Ross Boyce, *University of North Carolina at Chapel Hill, United States*
Abstract 294, 1160

Nathaniel Byers, *Centers for Disease Control and Prevention, United States*
Abstract 5

Philip Bystrom, *University of Minnesota, United States*
Abstract 112

Manuela Carrasquilla, *University of Cambridge, United Kingdom*
Abstract 1296

Emily Deichsel, *University of Washington, United States*
Abstract 449

Yahya Derua, *Kilimanjaro Christian Medical University College, United Republic of Tanzania*
Abstract 184

Phouvieng Douangdala, *Luangnamtha Provincial Hospital, Laos*
Abstract 133

Anna Fagre, *Colorado State University, United States*
Abstract 158

Maurice Itoe, *Harvard T.H. Chan School of Public Health, United States*
Abstract 851

Dennis Juma, *USAMRU, Kenya*
Abstract 357

Caroline Kabaria, *African Population and Health Research Centre, Kenya*
Abstract 331

Donghun Kim, *Kansas State University, United States*
Abstract 673

Sri Krishna, *National Institute for Research in Tribal Health, India*
Abstract 359

Inke Nadia Diniyanti Lubis, *London School of Hygiene & Tropical Medicine, United Kingdom*
Abstract 270

Karina Luque-Burgos, *Hospital Erasmo Meoz, Colombia*
Abstract 500

Zvifadzo Matsena, *National Institute of Health Research, Zimbabwe*
Abstract 286A

Yeromin, Mlacha, *Ifakara Health Institute, Tanzania*
Abstract 333

Lidia Montenegro, *Universidad de Antioquia, Colombia*
Abstract 265

Fathima Mubarak, *Ministry of Health, Sri Lanka*
Abstract 448

Billy Ngasala, *Muhimbili University of Health and Allied Sciences, Tanzania*
Abstract 272

John Okombo, *University of Cape Town, South Africa*
Abstract 980

Olugbenga Onile, *Elizade University, Nigeria*
Abstract 587A

Derick Osakunor, *University of Edinburgh, United Kingdom*
Abstract 740

Camilla Pires, *FIOCRUZ, Brazil*
Abstract 377

Saravanakumar Puthupalayam Kaliappan, *Christian Medical Center, India*
Abstract 155

Binod Rayamajhee, *Kathmandu Research Institute for Biological Sciences, Nepal*
Abstract 1760

Rasheed Salaudeen, *Medical Research Council Unit, The Gambia*
Abstract 568

Richard Sanya, *MRC/UVRI Uganda Research Unit, Uganda*
Abstract 743

Stacey Scroggs, *New Mexico State University, United States*
Abstract 1311

Rachel Sippy, *University of Wisconsin, United States*
Abstract 109

Menno Smit, *KEMRI, Kenya*
Abstract 1686A

Subramanian Swaminathan, *Vector Control Research Center, India*
Abstract 626

Susana Vaz Nery, *Australian National University, Australia*
Abstracts 1199, 1819

Hayley Yaglom, *Arizona Department of Health Services, United States*
Abstract 164

Celine Mabot Yobo, *Nangui Abrogoua University, Cote d'Ivoire*
Abstract 617

ASTMH Fellowships, Travel Awards, 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 support of these awards from:

William A. Petri, Sr. and Dr. Ann E. Petri

TECHLAB Inc.

The Petri Family

Anonymous

PLOS

Chair: Edward Mitre, Uniformed Services University of the Health Sciences

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. 2017 recipients will be determined at the competitive judging event held on Sunday, November 5, at the Annual Meeting. Winners will be announced during the Awards Program at the opening session.

Congratulations to the 2016 Recipients

(Selected during ASTMH 65th Annual Meeting, November 2016)

Nicholas Bergren, *University of Texas Medical Branch, United States*

Bethany Caruso, *Emory University, United States*

Richard Davis, *University of Iowa, United States*

Kristina Keitel-Hasler, *Swiss Tropical and Public Health Institute/Boston Children's Hospital, Switzerland*

Kara Moser, *University of Maryland School of Medicine, United States*

First-Tier Mention

Suzy Campbell, *Australian National University, Australia*

Morgan Goheen, *University of North Carolina Chapel Hill School of Public Health, United States*

John Jimah, *Washington University School of Medicine, United States*

Christine Markwalter, *Vanderbilt University, United States*

Deepali Ravel, *Harvard School of Public Health, United States*

Honorable Mention

Gunjan Arora, *National Institute of Allergy and Infectious Diseases, United States*

Sarah Buddenborg, *University of New Mexico, United States*

Sung-Jae Cha, *Johns Hopkins University, United States*

Breanna Scorza, *University of Iowa, United States*

Donna Tyungu, *New York University, United States*

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

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



Chair: 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.

2016 Recipients



Sarah-Blythe Ballard, *Johns Hopkins Bloomberg School of Public Health, United States*



Ruvandhi Nathavitharana, *Beth Israel Deaconess Medical Center, United States*



Jonathan Parr, *University of North Carolina at Chapel Hill, United States*

2017 Recipients



Tara Bouton, *Brown University, United States*



Patrick Cudahy, *Yale University, United States*



Matthew Ippolito, *Johns Hopkins University School of Medicine, United States*

ASTMH Fellowships, Travel Awards, and Grants (cont.)

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.

2017 Recipients

Mustafa Abid, *Wake Forest University School of Medicine, United States*

Precious Anyaoha, *Morehouse School of Medicine, United States*

Brandon Berger, *University of Chicago Pritzker School of Medicine, United States*

Nicholas Brazeau, *University of North Carolina at Chapel Hill School of Medicine, United States*

Catherine Castro, *University of Chicago Pritzker School of Medicine, United States*

Shilpa Darivemula, *Albany Medical College, United States*

Jessica Dawson, *University of Washington, United States*

John Diehl, *Emory University School of Medicine, United States*

Celia Fung, *University of Rochester School of Medicine and Dentistry, United States*

Paris Hantzidiamantis, *State University of New York, United States*

Megan Harris, *SUNY Upstate Medical University, United States*

Monalisa Hassan, *Wake Forest University School of Medicine, United States*

Justin Hills, *University of North Carolina at Chapel Hill School of Medicine, United States*

John Kahler, *State University of New York, United States*

Matthew Matson, *Marshall University, United States*

Qaasim Mian, *University of Alberta, Canada*

Courtney Pedersen, *Stanford University School of Medicine, United States*

Julia Ramos, *Johns Hopkins University School of Medicine, United States*

Margaret Robinson, *Stanford University School of Medicine, United States*

Tu Tran, *University of Minnesota, United States*

Hannah Wild, *Stanford University School of Medicine, United States*

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.

2017 Recipients



Melissa Conrad, *University of California San Francisco, United States*



Usheer Kanjee, *Harvard T.H. Chan School of Public Health, 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 insect-borne 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.

2017 Recipient



Amy Krystosik, *Stanford University School of Medicine, United States*

ASTMH Subgroup Awards

American Committee of Medical Entomology (ACME) Student Travel Awards

Chair: Lyric Bartholomay, University of Wisconsin Madison, 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.

2017 Recipients

Young Investigator Award – Graduate

Carolyn Hodo, *Texas A&M University, United States*

Young Investigator Award – International

Om Prakash Singh, *Banaras Hindu University, India*

Young Investigator Award – Post-Doc

Hannah Romo, *Colorado State University, United States*

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

This award is for outstanding recent contributions (within the past five 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. Examples of such advances include breakthrough research findings in vector biochemistry, molecular biology, genetics, genomics or insecticide resistance, or significant advances in technologies for vector surveillance or control.

This award is supported by a generous donation from SC Johnson to the American Committee of Medical Entomology.

2017 Recipient

Zhijian Tu, *Virginia Tech, United States*

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

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

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

This award is supported by a generous donation from SC Johnson to the American Committee of Medical Entomology.

2017 Recipients

Nsa Dada, *Centers for Disease Control and Prevention, United States*

Eric Ochomo, *Kenya Medical Research Institute, Kenya*

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

Chair: Christine Petersen, University of Iowa, United States

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

2017 Recipient

Rogger Carmen, *Universidad Peruana Cayetano Heredia, Peru*

ASTMH Subgroup Awards (cont.)

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

Chair: Christine Petersen, *University of Iowa, United States*

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.

2017 Recipients

Camilla Coelho, *National Institute for Allergy and Infectious Diseases, National Institutes of Health, United States*
Maria Simoes, *Johns Hopkins University, United States*

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

Chair: Farooq Nasar, *United States Army Medical Research Institute of Infectious Diseases, United States*

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

2017 Recipients

Nunya Chotiwan, *Colorado State University, United States*
Amy Krystosik, *Kent State University College of Public Health, United States*
Carla Mavian, *University of Florida, United States*
Erin McDonald, *Centers for Disease Control and Prevention, United States*
Wen-Yang Tsai, *University of Hawaii at Manoa, United States*

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

Chair: Koya Allen, *United States Department of Defense/ European Command Headquarters, Stuttgart, Germany*

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.

2017 Recipients

Meredith Hickson, *University of Michigan Medical School, United States*
Martha Tesfalul, *University of California San Francisco, United States*

Elsevier 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. 2017 recipients will be determined at the competitive judging event held on Sunday, November 5, during the Annual Meeting. Winners will be announced during the Awards Program at the opening session.

2016 Recipients (selected during ASTMH 65th Annual Meeting, November 2016)

First Place Edward Smith, *U.S. Naval Medical Research Unit #6, Peru*

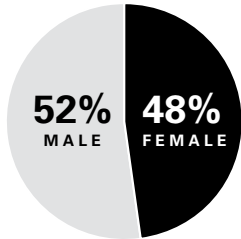
Second Place: Ruwandi Kariyawan, *University of Toronto, Canada*

Third Place: Obadia Kenji, *University of Hawaii, United States*

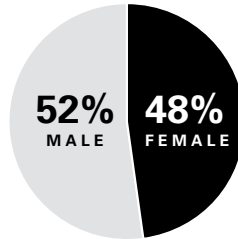
Program Information

ASTMH Values and Promotes Diversity

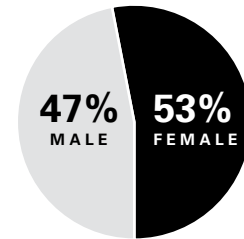
ASTMH takes pride in its diverse membership, represented through the Society's leadership, Annual Meeting presenters and attendees. Symposium Organizers were encouraged to consider diversity with respect to gender, institutional background and country of origin when developing symposium submissions.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



2017 Baltimore Symposium and Abstract Presenters



2016 Atlanta Annual Meeting Attendance



Council/Executive Committee

Elsevier Clinical Research Award Competition

Convention Center – Room 337/338 (Level 300)
Sunday, November 5, Noon – 2:30 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 86.

Young Investigator Award Competition

Convention Center – Rooms 318/319, 322/323, 325/326, 328/329, 331/332 (Level 300)
Sunday, November 5, 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 77.

ASTMH Communications Training Workshop

Hilton - Holiday Ballroom 3 (East Building, Second Floor)
Sunday, November 5, 10:30 a.m. – 2:30 p.m.

Now more than ever in the history of the ASTMH, it is important that researchers and clinicians clearly communicate about their work, explain the importance of tropical medicine/global health programs and advocate for research funding. To be effective advocates, to stand out from the crowd of important issues you need skills that help you to be persuasive and memorable. How do you prepare for an important presentation? How do you manage challenging media interviews? How do you explain your research to people who might not know anything about your work, and get them invested in the outcome - with only minutes to make your case? This half-day course will teach you how to clearly and effectively communicate about your work. You will learn how to prepare and deliver messages, craft and tell persuasive stories, and how to stay in control what you say in any meeting or interview. Time and again we see the power of these communications skills to change minds, build awareness and grab attention.

SESSION FULL

Program Information

Special Session 118: Film Night *Minutes to Die* Documentary

Convention Center - Ballroom I (Level 400)
Tuesday, November 7, 7:15 p.m. – 9 p.m.

From a Kenyan hospital to a rice paddy in India, victims of venomous snakebites are the faces of death and disability of a staggeringly widespread global crisis the world knows little about. The documentary *Minutes to Die* takes viewers to the homes and hospital beds of snakebite victims, to labs where scientists are working to manufacture antivenom and develop additional antidotes, to meetings of public health officials from the World Health Organization. Unpacking the limitations of rural medical infrastructure, the economic challenges of antivenom, and the financial devastation to the families of snakebite victims—who are mostly agricultural workers and children—the film makes clear that this health issue is also very much an issue of poverty, inequity, and social justice. *Minutes to Die* is directed by James Reid and funded by the Lillian Lincoln Foundation. The 62-minute film will be followed by a panel discussion.

Late-Breaker Abstracts

These sessions feature brief presentations of important new data obtained after the closing date for abstract submission. 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.

Symposium 46: Alan J. Magill Malaria Eradication Symposium

Convention Center – Ballroom II
Monday, November 6, 4 p.m. – 5:45 p.m.
Supported with funding from the Bill & Melinda Gates Foundation



This annual symposium honors the life and work of ASTMH Past President Alan Magill, who at the time of his untimely death in 2015 was promoting the bold goal of global malaria eradication as the Malaria Director at the Bill & Melinda Gates Foundation. This year the symposium will include a review of key concepts and potential

interventions for residual transmission; the challenge of including fragile populations in the elimination strategy; the approaches being taken by the 21 countries that are aiming to achieve at least one year of no indigenous transmission by 2020; and the new focus on the *P. vivax* research and elimination agenda. 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.

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 20

ASTMH Committee on Global Health (ACGH) Symposium II: Building a Successful Career in Global Health – An Interactive Session with Global Health Experts

Convention Center - Room 321/322/323 (Level 300)
Monday, November 6, 10:15 a.m. - Noon

Symposium 30

Tropical Medicine Postdoctoral Training: Burroughs Wellcome Fund/ASTMH Fellowship Award and Other Opportunities

Convention Center - Room 339/340 (Level 300)
Monday, November 6, 12:15 p.m. - 1:30 p.m.

Mid-Day Session 88

Career Trajectories and Work-Life Balance in Academia, Government and the Private Sector of the Infectious Disease Arena

Convention Center - Room 339/340 (Level 300)
Tuesday, November 7, 12:15 p.m. - 1:30 p.m.

**INCLUDED
WITH YOUR
REGISTRATION FEE:
FREE Wi-Fi at the
Convention Center!**


**#TropMed17
#IamTropMed**

**NEW THIS
YEAR!
Stop in at the
TropMed Hub**

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

The TropStop — Student/Trainee Lounge*
Convention Center – Pratt Street West Lobby Foyer (Level 300)

This casual setting, designed with students, trainees and residents in mind (e.g., free coffee and free internet), is your place for a break from the fast pace of the meeting and to relax with colleagues and friends. Back again this year, check out Office Hours held in the TropStop. This is your opportunity to meet 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 6, 3 p.m. – 4 p.m.

Tuesday, November 7, 3 p.m. – 4 p.m.

Wednesday, November 8, 3 p.m. – 4 p.m.

Young Investigator Award Competition

Sunday, November 5, 10 a.m. – 3 p.m.

Convention Center – Rooms 318/319, 322/323, 325/326, 328/329, 331/332 (Level 300)

Elsevier Clinical Research Award Competition

Sunday, November 5, Noon – 2:30 p.m.

Convention Center – Room 337/338 (Level 300)

Student Reception*

Sunday, November 5, 4 p.m. – 5 p.m.

Hilton – Key Ballroom 1/2 (West Building, Second 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 31*

Meet the Professors A

Monday, November 6, 12:15 p.m. - 1:30 p.m.

Convention Center – Room 341/342 (Level 300)

Meet the Professors 89*

Meet the Professors B

Tuesday, November 7, 12:15 p.m. - 1:30 p.m.

Convention Center – Room 341/342 (Level 300)

Meet the Professors 148*

Meet the Professors C

Wednesday, November 8, 12:15 p.m. - 1:30 p.m.

Convention Center – Room 341/342 (Level 300)

**Refreshments served*

Program Information

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:

Jason Andrews, *Stanford University, United States*
Abstract 473, 1980

Natalie Bowman, *University of North Carolina Chapel Hill, United States*
Abstract 149, 1468

Katherine Dobbs, *Case Western Reserve University, United States*
Abstract 50

Andrew DiNardo, *Baylor College of Medicine, United States*
Abstract 2002

Matthew Ippolito, *Johns Hopkins University School of Medicine, United States*
Abstract 1556

Jonathan Parr, *University of North Carolina Chapel Hill, United States*
Abstract 1308

Point of Entry: First-Time Attendee Orientation

Sunday, November 5
2:30 p.m. – 3:30 p.m.

Convention Center — Room 339/340

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.

Onsite Meeting Information

Poster Sessions

Convention Center – Hall F/G (Level 100)

Three poster sessions will be held in Hall F/G of the Convention Center. 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 6

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 4 p.m.
 Presentations/Light Lunch Noon – 1:45 p.m.
 Dismantle 4 p.m. – 6:15 p.m.

Poster Session B

Tuesday, November 7

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 4 p.m.
 Presentations/Light Lunch Noon – 1:45 p.m.
 Dismantle 4 p.m. – 6:15 p.m.

Poster Session C

Wednesday, November 8

Setup 9:45 a.m. – 10:15 a.m.
 Viewing 10:15 a.m. – 4 p.m.
 Presentations/Light Lunch Noon – 1:45 p.m.
 Dismantle 4 p.m. – 5 p.m.

POSTER SESSION A

Late-Breaker Abstracts

Bacteriology – Enteric Infections
 Bacteriology – Systemic Infections
 Cestodes - Echinococcosis/Hydatid Disease
 Cestodes – Taeniasis and Cysticercosis
 Clinical Tropical Medicine
 Helminths – Nematodes – Filariasis
 (Cellular and Molecular Biology)
 Helminths – Nematodes – Filariasis
 (Clinical)
 Integrated Control Measures for Neglected
 Tropical Diseases (NTDs)
 Kinetoplastida – Cellular and Molecular
 Biology (Including *Leishmania* and
Trypanosomes)

Kinetoplastida – Immunology (Including
Leishmania and *Trypanosomes*)
 Pneumonia, Respiratory Infections and
 Tuberculosis
 Protozoa – Ameba/*Giardia*
 Trematodes – Other
 Trematodes – Schistosomiasis – Cellular
 and Molecular Biology
 Trematodes – Schistosomiasis –
 Immunology
 Water, Sanitation, Hygiene and
 Environmental Health

Malaria

Virology

Entomology

Global Health

ENTRANCE from Exhibit Hall

Program Information

POSTER SESSION B

Late-Breaker Abstracts

Bacteriology – Enteric Infections
Bacteriology – Other Bacterial Infections
Clinical Tropical Medicine
Helminths – Nematodes – Filariasis (Epidemiology)
Helminths – Nematodes – Intestinal Nematodes
HIV and Tropical Co-Infection
Kinetoplastida – Diagnosis and Treatment (Including *Leishmania* and Trypanosomes)

Pneumonia, Respiratory Infections and Tuberculosis
Protozoa – Other Protozoa
Trematodes – Schistosomiasis – Epidemiology, Diagnosis and Treatment
Water, Sanitation, Hygiene and Environmental Health

Malaria

Virology

Entomology

Global Health

ENTRANCE from Exhibit Hall

POSTER SESSION C

Late-Breaker Abstracts

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

Kinetoplastida – Epidemiology (Including *Leishmania* and Trypanosomes)
One Health: Interface of Human Health/Animal Diseases
Pneumonia, Respiratory Infections and Tuberculosis
Protozoa – Other Protozoa
Water, Sanitation, Hygiene and Environmental Health

Malaria

Virology

Entomology

Global Health

ENTRANCE from Exhibit Hall

Onsite: What, When, Where

Social Media at the 66th Annual Meeting

Follow the 66th 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 tweeting by using the **#TropMed17** 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 **#TropMed17** 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.

Meet us in the TropMed Hub

Visit the TropMed Hub in the Exhibit Hall (Swing Hall, Booth 411) and visit with representatives from:

- 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)
- ASTMH/AJTMH

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

Learn more about:

- What subgroups do
- How to get involved
- The benefits of becoming an ASTMH member
- Submitting material to the *American Journal of Tropical Medicine and Hygiene*

The TropMed Hub is on the way to the Poster Sessions – be sure to drop in!



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 for each session within 48 hours after the session has ended. Slides of select sessions will be available as well.

Onsite: What, When, Where

Registration

Convention Center – Pratt Street West Lobby

Pre-Meeting Course Registration Hours

Saturday, November 4 10 a.m. – 2 p.m.

Annual Meeting Registration Hours

Sunday, November 5 7 a.m. – 7:30 p.m.

Monday, November 6 7 a.m. – 5 p.m.

Tuesday, November 7 7 a.m. – 5 p.m.

Wednesday, November 8 7 a.m. – 5 p.m.

Thursday, November 9 7 a.m. – 10:30 a.m.

The following food functions are included in the registration fee:

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

Badges/Meeting Access

Participation in the Annual Meeting is limited to registered attendees. An official badge is required for admission to all sessions, social activities and exhibit area. 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

Annual Meeting sessions and events will be held at the Baltimore Convention Center, with some events held at the Hilton Baltimore.

The Baltimore Convention Center

One West Pratt Street
Baltimore, MD 21201 USA
Phone +1-410-649-7000
Fax +1-410-649-7008

Hilton Baltimore

401 W. Pratt Street
Baltimore, MD 21201 USA
Phone +1-443-573-8700
Fax +1-443-683-8841

In addition, ASTMH has reserved a block of guest rooms at the Baltimore Marriott Inner Harbor at Camden Yards and the Sheraton Inner Harbor.

Baltimore Marriott Inner Harbor at Camden Yards

110 S. Eutaw Street
Baltimore, MD 21201 USA
Phone +1-410-962-0202
Fax +1-410-625-7892

Sheraton Inner Harbor

300 S. Charles Street
Baltimore, MD 21201 USA
Phone +1-410-347-1849
Fax +1-410-347-1853

Message Board

A message board will be available in the ASTMH registration area on Level 300 of the Baltimore Convention Center. Check the message board often to retrieve your messages.

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 by mobile phones, is strictly prohibited in educational sessions. Attendees found to be using cameras in educational sessions without permission will be asked to leave the conference and will not be issued a refund.

Impromptu Meeting Rooms for Attendees

Hilton – Chase Room and Stone Room (West Building, Third Floor)

The Chase and Stone rooms on the third floor of the west building 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.

Onsite: What, When, Where

Press Room

Convention Center – Room 330 (Level 300)

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 5 Noon – 5:30 p.m.
Monday, November 6 7:45 a.m. – 5 p.m.
Tuesday, November 7 8 a.m. – 5 p.m.
Wednesday, November 8 8 a.m. – 5 p.m.

Exhibits

Convention Center – Swing Hall (Level 100)

The Annual Meeting features an exposition of displays by leading suppliers and vendors. A complete exhibitor and supporter directory starts on page 60.

Exhibit Hours

Sunday, November 5	7 p.m. – 9:30 p.m.
Monday, November 6	9:30 a.m. – 10:30 a.m. Noon – 1:45 p.m. 3:15 p.m. – 4:15 p.m.
Tuesday, November 7	9:30 a.m. – 10:30 a.m. Noon – 1:45 p.m. 3:15 p.m. – 4:15 p.m.
Wednesday, November 8	9:30 a.m. – 10:30 a.m. Noon – 2:30 p.m.

ASTMH Subgroup Information Tables/TropMed Hub

Convention Center – Swing Hall

Visit the information tables in the ASTMH exhibit hall in booth 411 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)

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 2018. Complete your online CME Attendance and Evaluation Form by accessing 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 to the registration desk by Thursday, November 9 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 2018.

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

Convention Center – Room 336 (Level 300)

Hours

Sunday, November 5	Noon – 6 p.m.
Monday, November 6	7 a.m. – 5 p.m.
Tuesday, November 7	7 a.m. – 5 p.m.
Wednesday, November 8	7 a.m. – 5 p.m.
Thursday, November 9	7 a.m. – 10:30 a.m.

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 2013/2016 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 5 at noon.

Slide Presentation Format Guidelines

- Save your presentation as a Microsoft PowerPoint file in a format that is compatible with PowerPoint 2013/2016 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

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.

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 wmv, avi or Mpg or MP4 formats 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.

ASTMH is at Work All Year Round!

Diploma Courses in Clinical Tropical Medicine and Travelers' Health

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

Update Course in Clinical Tropical Medicine and Travelers' Health

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

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

Save the Date for the 2018 CTropMed®!

The next CTropMed® Exam 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.



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.

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 2018 April 25, 2018

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 28: Poster Session A: Presentations and Light Lunch

Symposium 30: Tropical Medicine Postdoctoral Training: Burroughs Wellcome Fund/ASTMH Fellowship Award and Other Opportunities

Plenary Session 59: Plenary Session II: Fred L. Soper Lecture

Tuesday

Poster Session 86: Poster Session B: Presentations and Light Lunch

Mid-Day Session 88: Career Trajectories and Work-Life Balance in Academia, Government and the Private Sector of the Infectious Disease Arena

Plenary Session 117: Plenary Session III: Commemorative Fund Lecture

Wednesday

Poster Session 145: Poster Session C: Presentations and Light Lunch

Mid-Day Session 147: Meet the Editors: Journal Editor Panel

Symposium 171: The Washington, DC Primer: Advocating for R&D Funding – The Who, What, Where, Why and How

Plenary Session 174: Plenary Session IV: President's Address and Annual Business Meeting

Clinical Tropical Medicine

Monday

Symposium 6: Estimating the Global Burden of Group B *Streptococcus* in Pregnant Women, Stillbirths and Children to Inform Vaccine Development

Symposium 18: Clinical Update: What's New in Literature?

Late Breaker Abstract Session 29: Late Breakers in Clinical Tropical Medicine and Global Health

Meet the Professors 31: Meet the Professors A: Enigmatic and Teaching Cases

Symposium 35: Adventures in Tropical Dermatology

Scientific Session 48: Clinical Tropical Medicine I

Tuesday

Symposium 63: Clinical Group Symposium I (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH): "There Ought to Be a Vaccine for That...." The Process, Hurdles and Opportunities in Developing and Utilizing Vaccines for Tropical Infections

Symposium 66: Mechanisms of Post-Discharge Mortality and Possible Interventional Targets in Low-Resource Settings

Symposium 76: Clinical Group Symposium II (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH): Updates in Clinical Practice in Tropical and Travel Medicine

Meet the Professors 89: Meet the Professors B: Enigmatic and Teaching Cases

Symposium 93: Movement of Tropical Diseases in Highly-Connected World

Symposium 111: Cystic Echinococcosis: Advocacy to Action

Symposium 114: Etiology and Prevention of Neonatal Infections

Wednesday

Symposium 122: Translational Research Initiatives in the Practice of Travel Medicine

Symposium 139: Improving the Triage and Management of Children with Acute Febrile Illnesses Through Point-Of-Care Technologies

Meet the Professors 148: Meet the Professors C: Enigmatic and Teaching Cases

Symposium 154: Emerging Tick-Borne Infections: Entomological and Clinical Aspects

Symposium 164: Challenges in Medical Humanitarian Settings – Experiences from MSF, ALIMA and Doctors for Global Health

Symposium 166: Neurocysticercosis: IDSA/ASTMH Guidelines and Beyond

Thursday

Scientific Session 177: Clinical Tropical Medicine II

Symposium 190: The Epidemic of Cancer in Africa: Prevention, Early Detection and the Role of Infection Control

Session Topic Guide

Symposium 194: NTDs and Micronutrient Malnutrition: The Dual Burden of Two Neglected Conditions

Diarrhea and Bacterial Illness

Tuesday

Symposium 6: Estimating the Global Burden of Group B *Streptococcus* in Pregnant Women, Stillbirths and Children to Inform Vaccine Development

Scientific Session 68: Bacteriology: Trachoma

Scientific Session 81: Bacteriology: Other

Symposium 95: Accelerating Research Toward the Control of *Cryptosporidium*

Symposium 108: Challenges in Cholera Control and Elimination

Wednesday

Symposium 127: Melioidosis - An Emerging Threat to Low- and-Middle-Income Countries

Symposium 138: Controlling Typhoid Disease: New Insights on Vaccines and Vaccination Strategies

Symposium 157: Global Elimination of Trachoma: Refocusing the End Game

Scientific Session 172: Bacteriology: Cholera

Thursday

Symposium 179: Introduction to the Rotavirus Vaccine Impact on Diarrhea in Africa (VIDA) Study

Scientific Session 186: Bacteriology: *Salmonella*/Typhoid/Fever

Symposium 193: Deciphering Immune Responses Elicited by Four Major Human Diarrheal Pathogens [ETEC, *Shigella*, *Salmonella* and Cholera]: Identification of Immunocorrelates with Practical Vaccine Applications

Symposium 197: Use of Seroepidemiology to Guide Public Health Action

Ectoparasite-Borne Diseases

Tuesday

Symposium 70: Novel Datasets and Approaches to Study the Emergence of Lyme Disease and Other Tick-Borne Diseases in the United States

Scientific Session 113: Ectoparasite-Borne Diseases

Entomology

Monday

Scientific Session 8: Arthropods: Other Arthropods

Scientific Session 21: Mosquitoes - Vector Biology - Epidemiology I

Scientific Session 38: Mosquitoes - Vector Biology - Epidemiology II

Scientific Session 51: Mosquitoes: Biochemistry and Molecular Biology

Tuesday

Scientific Session 65: Mosquitoes: Insecticide Resistance and Control

Symposium 74: Ivermectin and Mosquitoes: The Vital Role of Pharmacokinetics and Pharmacodynamics

Scientific Session 82: Mosquitoes: Molecular Genetics and Genomics

Symposium 97: American Committee of Medical Entomology (ACME) Symposium I: Annual Business Meeting, Awards and Hoogstraal Medal Presentations and Networking Reception

Symposium 110: American Committee of Medical Entomology (ACME) Symposium II: New and Young Investigators in Medical Entomology

Wednesday

Symposium 125: *Wolbachia* for Biocontrol of Arboviruses

Symposium 136: Innovative Approaches to Monitor Resistance and Resistance Management for Effective Vector Control

Symposium 152: Disrupting the Paradigm: Bite Prevention Technologies for Malaria Control and Elimination

Symposium 154: Emerging Tick-Borne Infections: Entomological and Clinical Aspects

Thursday

Scientific Session 180: Mosquitoes: Operational Control

Session Topic Guide (cont.)

Filariasis

Monday

Scientific Session 10: Filariasis: Epidemiology and Control I

Scientific Session 40: Filariasis: Epidemiology and Control II

Tuesday

Scientific Session 83: Filariasis: Clinical

Scientific Session 100: Filariasis: Molecular Biology, Immunology and Diagnostics

Wednesday

Symposium 128: New Tools and Strategies for the Next Phase of the Global Filariasis Elimination Program

Symposium 141: Interim Strategies on Onchocerciasis Elimination in Africa: National Approaches to Transmission Interruption in the Absence of Formal Guidance

Global Health

Sunday

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

Monday

Symposium 3: Accelerating Malaria Elimination Through Strengthened Private Sector Surveillance: Taking Forward Lessons Learned in Africa and the Greater Mekong Sub-Region

Symposium 7: ASTMH Committee on Global Health (ACGH) Symposium I: U.S. Future Role in Global Health and Annual Business Meeting

Scientific Session 13: Global Health: Community-Based Platforms

Symposium 20: ASTMH Committee on Global Health (ACGH) Symposium II: Building a Successful Career in Global Health - An Interactive Session with Global Health Experts

Scientific Session 26: Global Health: Burden, Epidemiology and Prevention of Febrile Illness and Malaria

Symposium 30: Tropical Medicine Postdoctoral Training: Burroughs Wellcome Fund/ASTMH Fellowship Award and Other Opportunities

Symposium 37: Antimicrobial Resistance: Transforming Diseases of Poverty into Global Threats

Scientific Session 44: Global Health: From Chagas Disease to Nephropathy and Acute Encephalitis Syndrome

Symposium 49: Climate Change and Health: Tracking Implementation of the Paris Agreement

Symposium 54: 'Leaving No One Behind' The Key to Achieving NTD Elimination?: Tools for Programs to Ensure and Measure Equity

Symposium 55: Doing Global Health Research in an Unequal World: Ethics Case Studies from Africa

Scientific Session 57: Global Health: Initiatives, Strategies, Approaches and Tools

Tuesday

Symposium 66: Mechanisms of Post-Discharge Mortality and Possible Interventional Targets in Low-Resource Settings

Symposium 72: The Full Public Health Value of Vaccines

Symposium 75: Tracking the Impact of SMC: An Assessment of the Impact and Cost Effectiveness of Seasonal Malaria Chemoprevention in West and Central Africa

Symposium 77: Vector-Borne Diseases and the WHO Global Vector Control Response

Symposium 78: Research Capacity Development: Harnessing the Sharing Revolution in Global Health Research

Symposium 96: Safely Feeding the Planet: A Look to the Future

Symposium 98: A Frank Discussion About Sustainable Healthcare Delivery with Rwandan, Malawian, Haitian and American Global Health Care Leaders

Symposium 99: Internet and Other Digital 'Big Data' to Enhance Epidemic Surveillance and Public Health Decision-Making in Tropical and Low- to Middle-Income Countries

Symposium 101: Progress Towards Understanding and Preventing Key Causes of Child Mortality Through the CHAMPS Surveillance Network

Symposium 102: Pregnancy and Infectious Disease: Ethical, Legal and Global Challenges in Clinical Research

Symposium 106: Science Is Real: Climate Change Impacts on Vector Borne-Diseases

Symposium 109: Evidence-Based Stratification of Malaria Risk: The Role of System and Operational Factors to Successfully and Sustainably Eliminate Transmission

Session Topic Guide (cont.)

Symposium 114: Etiology and Prevention of Neonatal Infections

Symposium 115: Follow-Up Tools for Surgical Quality Assurance

Special Session 118: Minutes to Die Documentary Film

Symposium 118A: Harvey, Irma and Maria: Impacts and Global Health Implications of Recent Extreme Weather Events

Wednesday

Symposium 124: Medical Education and Public Health Challenges in Iraq

Symposium 130: Challenges and Opportunities of Conducting Clinical Trials in Pregnant Women and Future Infants in Resource-Limited Settings

Symposium 131: Acute Febrile Illness and Acute Encephalitis Surveillance in India in the Context of the Global Health Security Agenda: Unveiling Emerging Pathogens and Informing Disease Prioritization

Symposium 140: Household Air Pollution and Health: Recent and Ongoing Research

Symposium 141: Interim Strategies on Onchocerciasis Elimination in Africa: National Approaches to Transmission Interruption in the Absence of Formal Guidance

Symposium 144: International Zika Cohort Studies in Pregnant Women

Symposium 159: Immigration and Chagas Disease: Barriers to Access to Treatment and New Challenges in the U.S., Europe and Latin America

Symposium 160: Innovative Approaches to Encourage Broader Public Engagement with Tropical Medicine

Symposium 164: Challenges in Medical Humanitarian Settings – Experiences from MSF, ALIMA and Doctors for Global Health

Symposium 167: Building Clinical Trial Capacities in Africa Through North-South Networking and Public-Private Partnership: Final Outcome of the West African Network for Clinical Trials of Antimalarial Drugs (WANECAM)

Symposium 171: The Washington, DC Primer: Advocating for R&D Funding – The Who, What, Where, Why and How

Plenary Session 174: Plenary Session IV: President's Address and Annual Business Meeting

Thursday

Symposium 181: Lasers, Rays and Dyes: Tools and Initiatives in the Fight against Substandard and Falsified Medicines

Symposium 189: Taking Innovations to Market: Ideas and Products from the Ebola and Zika and Future Threats Grand Challenges for Development

Symposium 196: Preparing for the Next Epidemic through Military and Civilian Partnerships in West Africa

Symposium 197: Use of Seroepidemiology to Guide Public Health Action

HIV and Tropical Co-Infections

Monday

Symposium 14: HIV and Liver Diseases

Wednesday

Scientific Session 143: HIV and Tropical Co-Infections

Thursday

Plenary Session 187: Plenary Session V

Integrated Control Measures for Neglected Tropical Diseases (NTDs)

Monday

Scientific Session 12: Integrated Control Measures for Neglected Tropical Diseases

Symposium 25: STH Control Beyond School-Based Targeted Deworming: Evidence of the Additional Benefits of Community-Based Mass Chemotherapy

Symposium 54: 'Leaving No One Behind' The Key to Achieving NTD Elimination?: Tools for Programs to Ensure and Measure Equity

Tuesday

Symposium 69: Verifying the Elimination of Neglected Tropical Diseases: Implications for Sampling

Symposium 112: The USAID NTD Program – Ten Years of the Largest PCT NTD Implementation Program in History: Lessons Learned and New Directions

Wednesday

Symposium 157: Global Elimination of Trachoma: Refocusing the End Game

Session Topic Guide (cont.)

Symposium 169: Understanding the Factors That Motivate and Sustain Community Drug Distributors (CDD) in the Changing Context of Neglected Tropical Disease (NTD) Control and Elimination

Symposium 194: NTDs and Micronutrient Malnutrition: The Dual Burden of Two Neglected Conditions

Intestinal and Tissue Helminths, Cestodes

Monday

Scientific Session 11: Cestodes: Cysticercosis and Echinococcosis

Tuesday

Symposium 111: Cystic Echinococcosis: Advocacy to Action

Wednesday

Symposium 129: How to Ensure the Efficacy of Drugs in Soil-Transmitted Helminth Control Programs?

Scientific Session 153: Intestinal and Tissue Helminths: Soil-Transmitted Helminths - Biology and Immunology

Symposium 166: Neurocysticercosis: IDSA/ASTMH Guidelines and Beyond

Thursday

Scientific Session 182: Intestinal and Tissue Helminths: Soil-Transmitted Helminths - Epidemiology and Control

Kinetoplastida

Monday

Scientific Session 41: Kinetoplastida: Diagnosis, Treatment and Vaccine Development

Tuesday

Scientific Session 84: Kinetoplastida: Molecular Biology and Immunology

Wednesday

Symposium 126: Chagas Disease: Regional Differences in Clinical Research and Patient Care

Symposium 159: Immigration and Chagas Disease: Barriers to Access to Treatment and New Challenges in the U.S., Europe and Latin America

Scientific Session 156: Kinetoplastida: Epidemiology and Diagnosis

Malaria

Monday

Symposium 2: New Tools for Malaria Vector Control

Symposium 3: Accelerating Malaria Elimination Through Strengthened Private Sector Surveillance: Taking Forward Lessons Learned in Africa and the Greater Mekong Sub-Region

Scientific Session 5: Malaria: Clinical and Pre-Clinical Assessment of Antimalarials

Symposium 15: What Kinds of Molecules are Needed to Control and Eradicate Malaria?

Scientific Session 16: Malaria: Immunology

Symposium 19: Strengthening Surveillance Systems as a Pillar of the Global Technical Strategy: Practical Progress from Country Teams

Symposium 33: Geospatial Approaches for Modeling Malaria: From Emergence to Elimination

Symposium 34: Approaches for Understanding and Mitigating Drug-Resistant Malaria

Scientific Session 36: Malaria: Novel Insights and Methods in Malaria Diagnostics

Symposium 46: Alan Magill Symposium on Malaria Eradication

Scientific Session 47: Malaria: Enhancing and Optimizing Quality of Care

Symposium 50: Current Molecular Approaches for Tracking the Origin and Spread of Malaria Infections

Tuesday

Symposium 61: Triple ACTs as the New Paradigm for Treatment of Uncomplicated falciparum Malaria

Symposium 62: Malaria Rapid Diagnostic Testing: Understanding and Managing the Threat of PfHRP2/3-Negative *Plasmodium falciparum*

Session Topic Guide (cont.)

Scientific Session 64: Malaria: Epidemiology - Following Trends, Making Predictions

Scientific Session 73: Malaria: Biology and Pathogenesis

Symposium 74: Ivermectin and Mosquitoes: The Vital Role of Pharmacokinetics and Pharmacodynamics

Symposium 75: Tracking the Impact of SMC: An Assessment of the Impact and Cost Effectiveness of Seasonal Malaria Chemoprevention in West and Central Africa

Symposium 90: Transmission-Blocking Vaccines: What We Have Achieved So Far

Scientific Session 91: Malaria: Chemotherapy and Drug Resistance - Molecular Biology

Scientific Session 92: Malaria: Defining Strategies and Challenges for Optimal Use of Malaria Diagnostics

Symposium 103: Mechanisms of Immunity to Malaria – Implications for Vaccine Development

Symposium 104: Monitoring Antimalarial Resistance and *Plasmodium falciparum* Genetic Diversity in Africa: What We Know Now

Scientific Session 105: Malaria: Mass Drug Administration and Reactive Case Detection for Malaria Elimination

Symposium 109: Evidence-Based Stratification of Malaria Risk: The Role of System and Operational Factors to Successfully and Sustainably Eliminate Transmission

Wednesday

Scientific Session 119: Malaria: Advances in Modeling and Technology for Malaria

Symposium 120: Quantifying Immunity to Malaria

Symposium 121: School-Based Malaria Interventions: Impact on Health and Transmission

Symposium 132: Approaches to Malaria Elimination in Southern Africa, Southeast Asia and South America: What Operational Research is Needed to Complete the Task?

Symposium 133: Moving Toward a PfSPZ Malaria Vaccine for Protecting Travelers and Use in Elimination Campaigns

Scientific Session 134: Malaria: Prevention - Many Points of View

Scientific Session 137: Malaria: Genetics and Genomics

Late Breaker Abstract Session 146: Late Breakers in Malaria

Scientific Session 149: Malaria: Chemotherapy and Drug Resistance - Clinical Studies

Scientific Session 150: Malaria: Elimination - Tools and Evidence, Moving Toward Zero

Scientific Session 151: Malaria: Vaccines

Scientific Session 161: Malaria: Epidemiology - Measuring Changes

Symposium 162: Landscape of the Druggable *Plasmodium* Genome

Symposium 163: The Burden and Control of falciparum and vivax Malaria in Pregnancy in Asia

Symposium 167: Building Clinical Trial Capacities in Africa Through North-South Networking and Public-Private Partnership: Final Outcome of the West African Network for Clinical Trials of Antimalarial Drugs (WANECAM)

Thursday

Scientific Session 175: Malaria: Mosquito Transmission and Interruption

Symposium 176: Swift, Wide and Deep: New Tools and Approaches for Generating Accurate Targeted Large-Scale Genetic Data from Complex Samples

Symposium 178: Household Enumeration for Targeted Interventions: Data, Tools and Experiences from Malaria Elimination

Scientific Session 188: Malaria: Applications of Innovative Technologies

Molecular Parasitology

Monday

Symposium 9: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) 15th Annual Symposium: Microbiome-Parasite Interactions: Effects on Parasite Biology and Host Immunity

Scientific Session 17: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoans - Molecular Biology

Scientific Session 43: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Helminths - Cellular, Molecular and Immunoparasitology

Session Topic Guide (cont.)

Scientific Session 56: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Helminths - Immunology

Tuesday

Scientific Session 60: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria - Molecular Biology and Infection

Late Breaker Abstract Session 87: Late Breakers in Basic Science/Molecular Biology

Thursday

Scientific Session 183: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Kinetoplastida - Molecular, Cellular and Immunobiology

Scientific Session 192: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoal Diseases - Biology and Pathogenesis

One Health: Interface of Human Health/Animal Diseases

Monday

Scientific Session 42: One Health: Interface of Human Health/Animal Diseases

Tuesday

Symposium 80: Fogarty International Center: Advancing Multidisciplinary Research to Understand the Ecology and Evolution of Infectious Diseases

Wednesday

Symposium 168: Operationalizing One Health: One Health Tools in the Context of Global Health Security

Opportunistic and Anaerobic Protozoa

Monday

Scientific Session 24: Protozoa

Pneumonia, Respiratory Infections and Tuberculosis

Tuesday

Scientific Session 85: Pneumonia, Respiratory Infections and Tuberculosis

Thursday

Symposium 184: Update on Pneumonia Innovations 2017

Schistosomiasis-Helminths

Monday

Scientific Session 27: Schistosomiasis and Other Trematodes: Transmission and Treatment

Tuesday

Scientific Session 79: Schistosomiasis: Epidemiology, Control and Diagnostics

Wednesday

Symposium 129: How to Ensure the Efficacy of Drugs in Soil-Transmitted Helminth Control Programs?

Symposium 142: The Evidence is In: Schistosomiasis Control in the 21st Century

Symposium 158: Praziquantel Studies in Preschool Children and Mothers with Schistosomiasis: Is the Research Agenda Comprehensive Enough?

Thursday

Scientific Session 195: Schistosomiasis: Immunology and Pathology

Virology

Monday

Scientific Session 4: Chikungunya and Other Alphaviruses

Scientific Session 22: Dengue: Pathogenesis/Immunology

Symposium 32: American Committee on Arthropod-Borne Viruses (ACAV) Symposium I: Annual Business Meeting, Awards and Research Presentations by Previous Awardees

Scientific Session 39: Dengue: Vaccines/Epidemiology

Symposium 45: American Committee on Arthropod-Borne Viruses (ACAV) Symposium II: Tick-Borne Viruses

Symposium 52: Lessons from the Ebola Survivors and Clinical Implications: Ebola Viral RNA Persistence, Ebola Survivors' Birth Cohort Findings and Longer-Term Ophthalmologic Findings

Plenary Session 59: Plenary Session II: Fred L. Soper Lecture

Tuesday

Scientific Session 67: Ebola and Rotaviruses

Scientific Session 94: West Nile and Other Viruses

Scientific Session 107: Zika I

Session Topic Guide (cont.)

Wednesday

Scientific Session 123: Zika II

Symposium 135: Lessons Learned From Dengue Vaccination Programs in Asia and Latin America

Symposium 144: International Zika Cohort Studies in Pregnant Women

Symposium 155: The Dengue Controlled Human Infection Model (CHIM) - A Tool to Deconstruct the Immune Response Toward the Identification of Immune Correlates of Protection

Symposium 165: Lassa Fever: A New Look at an Old Disease

Thursday

Symposium 179: Introduction to the Rotavirus Vaccine Impact on Diarrhea in Africa (VIDA) Study

Symposium 191: Clinico-Epidemiologic Studies and Laboratory Diagnostic Approaches during the 2016 Zika Outbreak in Puerto Rico

Water, Sanitation, Hygiene and Environmental Health

Monday

Scientific Session 23: Water, Sanitation, Hygiene and Environmental Health I

Tuesday

Scientific Session 53: Water, Sanitation, Hygiene and Environmental Health II

Symposium 71: The Sanitation Hygiene Infant Nutrition Efficacy (SHINE) Trial

Wednesday

Symposium 170: The WASH Benefits Study: The Effect of Single and Combined Water, Sanitation, Handwashing and Nutrition Interventions on Environmental Contamination, Parasite Infection, Environmental Enteric Dysfunction and Child Development

Thursday

Symposium 185: New Approaches to Health Impact Measurement in Water, Sanitation and Hygiene (WASH) Trials

ASTMH Council, Subgroup and Committee Meetings

Saturday, November 4

ASTMH Council Meeting

Hilton - Holiday Ballroom 4/5 (East Building, Second Floor)
Saturday, November 4, Noon - 6 p.m.

Sunday, November 5

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

Hilton - Johnson AB (East Building, First Floor)
Sunday, November 5, 11 a.m. - Noon

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

Hilton - Johnson AB (East Building, First Floor)
Sunday, November 5, Noon - 2 p.m.

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

Hilton - Johnson AB (East Building, First Floor)
Sunday, November 5, 2 p.m. - 3:30 p.m.

Young Investigator Award Committee Meeting

Convention Center - Room 318/319 (Level 300)
Sunday, November 5, 3 p.m. - 4 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Pratt Street Ale House
Sunday, November 5, 3:30 p.m. - 5:30 p.m.

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

Hilton - Paca (West Building, Third Floor)
Sunday, November 5, 3:30 p.m. - 5:30 p.m.

ASTMH Committee on Global Health (ACGH) Council Meeting

Hilton - Chase (West Building, Third Floor)
Sunday, November 5, 3:30 p.m. - 5:30 p.m.

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

Hilton - Stone (West Building, Third Floor)
Sunday, November 5, 3:30 p.m. - 5:30 p.m.

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

Pratt Street Ale House
Sunday, November 5, 4 p.m. - 5:30 p.m.

Monday, November 6

Clinical Standards and Treatment Guidelines Committee Meeting

Hilton - Peale A (East Building, First Floor)
Monday, November 6, 7 a.m. - 8 a.m.

Clinical Tropical and Travel Medicine Education Program Committee Meeting

Hilton - Johnson A (East Building, First Floor)
Monday, November 6, 7 a.m. - 8 a.m.

ASTMH Diploma Course Directors Meeting

Hilton - Peale B (East Building, First Floor)
Monday, November 6, 7 a.m. - 8 a.m.

ASTMH Travel Awards Meeting

Hilton - Key Ballroom 1 (West Building, Second Floor)
Monday, November 6, 7 a.m. - 8 a.m.

Courses Committee Meeting

Hilton - Tilghman (West Building, Third Floor)
Monday, November 6, 12:15 p.m. - 1:30 p.m.

Kean Fellowship Committee Meeting

Hilton - Marshall (West Building, Third Floor)
Monday, November 6, 12:15 p.m. - 1:30 p.m.

Tuesday, November 7

AJTMH Editorial Board Meeting

Hilton - Ruth (East Building, First Floor)
Tuesday, November 7, 7 a.m. - 8 a.m.

Clinical Group (ACCTMTH) Past Presidents Meeting

Hilton - Peale A (East Building, First Floor)
Tuesday, November 7, 7 a.m. - 8 a.m.

Shope Fellowship Committee Meeting

Hilton - Johnson A (East Building, First Floor)
Tuesday, November 7, 7 a.m. - 8 a.m.

CTropMed® Exam Executive Committee Meeting

Hilton - Johnson B (East Building, First Floor)
Tuesday, November 7, 12:15 p.m. - 1:30 p.m.

Wednesday, November 8

ASTMH Past Presidents Meeting

Hilton - Holiday Ballroom 1 (East Building, Second Floor)
Wednesday, November 8, 7 a.m. - 8 a.m.

ASTMH Council, Subgroup and Committee Meetings

Diploma Course Certification Committee Meeting

Hilton - Johnson B (East Building, First Floor)

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

Scientific Program Committee Meeting

Hilton - Key Ballroom 7/8(West Building, Second Floor)

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

Burroughs Wellcome Fund/ASTMH Fellowship Committee Meeting

Hilton - Johnson A (East Building, First Floor)

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

CTropMed® Exam Committee Meeting

Hilton - Peale B (East Building, First Floor)

Wednesday, November 8, 12:15 p.m. - 1:30 p.m.

Membership Committee Meeting

Hilton - Peale A (East Building, First Floor)

Wednesday, November 8, 12:15 p.m. - 1:30 p.m.

Thursday, November 9

ASTMH Council Meeting

Hilton - Holiday Ballroom 6 (East Building, Second Floor)

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

Related Organization Meetings (at press time)

Friday, November 3

Bill & Melinda Gates Foundation - Malaria Team Meeting

Marriott - Stadium 1 & 2

Friday, November 3, 8 a.m. - 5 p.m.

Bill & Melinda Gates Foundation - BMGF Mobilize Meeting

Hilton - Peale AB (East Building, First Floor)

Friday, November 3, 8 a.m. - 5 p.m.

International Society of Geospatial Health - 11th International Symposium on Geospatial Health - GnosisGIS 2017

Hilton - Ruth (East Building, First Floor)

Friday, November 3, 8 a.m. - 5 p.m.

Saturday, November 4

Bill & Melinda Gates Foundation - BMGF Malaria Team Meeting

Marriott - Promenade

Saturday, November 4, 8 a.m. - 5 p.m.

Bill & Melinda Gates Foundation - Malaria Team Meeting

Marriott - Stadium 1 & 2

Saturday, November 4, 8 a.m. - 8 p.m.

Foundation for the National Institutes of Health - Talking about Gene Drive: Communications Workshop Meeting

Hilton - Johnson AB (East Building, First Floor)

Saturday, November 4, 8 a.m. - 6 p.m.

IVCC Meeting

Hilton - Blake (East Building, Second Floor)

Saturday, November 4, 8 a.m. - 6 p.m.

International Society of Geospatial Health - 11th International Symposium on Geospatial Health - GnosisGIS 2017

Hilton - Ruth (East Building, First Floor)

Saturday, November 4, 8 a.m. - 5 p.m.

RTI International - Annual Meeting of the Zika in Infants and Pregnancy (ZIP) Study Meeting

Hilton - Holiday Ballroom 6 (East Building, Second Floor)

Saturday, November 4, 9 a.m. - 4 p.m.

Sunday, November 5

Bill & Melinda Gates Foundation - BMGF Malaria Team Meeting

Marriott - Stadium 1 & 2

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

Emerging ag inc Meeting

Hilton - Latrobe (East Building, First Floor)

Sunday, November 5, 8 a.m. - Noon

FIND - FIND MiP Meeting

Hilton - Blake (East Building, Second Floor)

Sunday, November 5, 8 a.m. - 5:30 p.m.

Health & Development International Team Meeting

Hilton - Marshall (West Building, Third Floor)

Sunday, November 5, 8 a.m. - 5:30 p.m.

International Society of Geospatial Health - 11th International Symposium on Geospatial Health - GnosisGIS 2017

Hilton - Ruth (East Building, First Floor)

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

IVCC Meeting

Hilton - Brent (West Building, Third Floor)

Sunday, November 5, 8 a.m. - 6 p.m.

Malaria Eradication Scientific Alliance (MESA) Meeting

Hilton - Hopkins (West Building, Third Floor)

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

Takeda Pharmaceuticals International AG - Staff Meeting

Hilton - Tilghman (West Building, Third Floor)

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

University of California Davis - TropMed Iquitos Collaborators'k Meeting

Hilton - Carroll AB (West Building, Third Floor)

Sunday, November 5, 8 a.m. - 6 p.m.

CDC/Malaria Branch - CDC President's Malaria Initiative Administrative and Management Meeting

Hilton - Armistead (West Building, Second Floor)

Sunday, November 5, 8:30 a.m. - 5:30 p.m.

Related Organization Meetings (at press time)

Bill & Melinda Gates Foundation - EuPath Database: An Open Repository to Accelerate Research on Enteric Pathogens Meeting

Hilton - Peale BC (East Building, First Floor)
Sunday, November 5, 9 a.m. - 4 p.m.

Clinton Health Access Initiative (CHAI) - Malaria Analytics and Surveillance Team (MAST) Meeting

Hilton - Calloway AB (East Building, Second Floor)
Sunday, November 5, 9 a.m. - 5:30 p.m.

World Health Organization - WHO Consultation on Fractional Yellow Fever Vaccination Research Agenda Meeting

Hilton - Tubman AB (West Building, Third Floor)
Sunday, November 5, 10 a.m. - 4 p.m.

University of Rhode Island - DHF Project Investigator's Meeting

Hilton - Key Ballroom 3 (West Building, Second Floor)
Sunday, November 5, Noon - 6 p.m.

International Society of Travel Medicine - GeoSentinel Mid-Year Meeting

Hilton - Key Ballroom 4 (West Building, Second Floor)
Sunday, November 5, 1 p.m. - 5 p.m.

PATH - Diarrhea Innovations Group Meeting

Sheraton - Severn 2/3
Sunday, November 5, 1 p.m. - 5 p.m.

Monday, November 6

Bill & Melinda Gates Foundation Side Meeting

Hilton - Hopkins (West Building, Third Floor)
Monday, November 6, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Douglass (West Building, Third Floor)
Monday, November 6, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Key Ballroom 6 (West Building, Second Floor)
Monday, November 6, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Key Ballroom 4 (West Building, Second Floor)
Monday, November 6, 8 a.m. - 8 p.m.

Infectious Diseases Data Observatory - Stakeholder Meeting

Hilton - Tubman AB (West Building, Third Floor)
Monday, November 6, 8 a.m. - 8 p.m.

IVCC Meeting

Hilton - Brent (West Building, Third Floor)
Monday, November 6, 8 a.m. - 6 p.m.

Johns Hopkins Center for Communication Programs - PMI ITN Partner's Meeting

Hilton - Key Ballroom 9 (West Building, Second Floor)
Monday, November 6, 8 a.m. - 5 p.m.

Malaria Eradication Scientific Alliance (MESA) Meeting

Hilton - Key Ballroom 10 (West Building, Second Floor)
Monday, November 6, 8 a.m. - 8 p.m.

PATH's Malaria Vaccine Initiative Meeting

Hilton - Ruth (East Building, First Floor)
Monday, November 6, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG - Staff Meeting

Hilton - Blake (East Building, Second Floor)
Monday, November 6, 8 a.m. - 5 p.m.

Royal Society of Tropical Medicine and Hygiene (RSTMH) - Donald Mackay Medal Reception

Hilton - Armistead (West Building, Second Floor)
Monday, November 6, Noon - 1:30 p.m.

United Nations Foundation - Innovation for Malaria Elimination in the Americas Meeting

Hilton - Holiday Ballroom 1 (East Building, Second Floor)
Monday, November 6, Noon - 1:15 p.m.

PLOS Neglected Tropical Diseases - 10 Years of PLOS NTDs and The Future of NTDs

Hilton - Johnson AB (East Building, First Floor)
Monday, November 6, 4 p.m. - 5:15 p.m.

Bill & Melinda Gates Foundation - EDD Team Side Meetings

Hilton - Key Ballroom 5 (West Building, Second Floor)
Monday, November 6, 5 p.m. - 9 p.m.

London School of Hygiene & Tropical Medicine - Alumni Reception

Hilton - Key Ballroom 7 (West Building, Second Floor)
Monday, November 6, 7:15 p.m. - 9 p.m.

Related Organization Meetings (at press time)

Bill & Melinda Gates Foundation Reception

Hilton - Holiday Ballroom 1/2/3 (East Building, Second Floor)
Monday, November 6, 7:15 p.m. - 10 p.m.

Tuesday, November 7

Jhpiego - Transforming IPT for Optimal Pregnancy (TIPTOP) Project Steering Committee Meeting

Hilton - Latrobe (East Building, First Floor)
Tuesday, November 7, 7 a.m. - 8:30 a.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Hopkins (West Building, Third Floor)
Tuesday, November 7, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Key Ballroom 6 (West Building, Second Floor)
Tuesday, November 7, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Douglass (West Building, Third Floor)
Tuesday, November 7, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Key Ballroom 4 (West Building, Second Floor)
Tuesday, November 7, 8 a.m. - 8 p.m.

Infectious Diseases Data Observatory - Stakeholder Meeting

Hilton - Tubman AB (West Building, Third Floor)
Tuesday, November 7, 8 a.m. - 8 p.m.

IVCC Meeting

Hilton - Brent (West Building, Third Floor)
Tuesday, November 7, 8 a.m. - 6 p.m.

Malaria Eradication Scientific Alliance (MESA) Meeting

Hilton - Key Ballroom 10 (West Building, Second Floor)
Tuesday, November 7, 8 a.m. - 8 p.m.

PATH Malaria Vaccine Initiative Meeting

Hilton - Key Ballroom 1 (West Building, Second Floor)
Tuesday, November 7, 8 a.m. - 8 p.m.

PATH Malaria Vaccine Initiative Meeting

Hilton - Key Ballroom 2 (West Building, Second Floor)
Tuesday, November 7, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG - Staff Meeting

Hilton - Blake (East Building, Second Floor)
Tuesday, November 7, 8 a.m. - 5 p.m.

University Cheikh Anta Diop and Speak Up Africa on Behalf of MIM- Presenting the 7th Multilateral Initiative on Malaria Conference (MIM)

Hilton - Holiday Ballroom 3 (East Building, Second Floor)
Tuesday, November 7, 8 a.m. - 5 p.m.

Abt Associates/Health Finance and Governance Project - Malaria Economic Research Community of Practice Side Meeting

Hilton - Holiday Ballroom 4 (East Building, Second Floor)
Tuesday, November 7, 9 a.m. - 5 p.m.

International Vaccine Access Center (IVAC) Meeting

Hilton - Ruth (East Building, First Floor)
Tuesday, November 7, 11 a.m. - 2 p.m.

Johns Hopkins School of Nursing - Education Group Meeting

Hilton - Peale A (East Building, First Floor)
Tuesday, November 7, Noon - 2 p.m.

PATH - Roundtable Discussion: Critical Attributes and Program Feasibility of a Microarray Patch for Primaquine Delivery Meeting

Hilton - Holiday Ballroom 2 (East Building, Second Floor)
Tuesday, November 7, 12:30 p.m. - 1:30 p.m.

Harvard T.H. Chan School of Public Health - Wirth Reception

Hilton - Peale ABC (East Building, First Floor)
Tuesday, November 7, 7:15 p.m. - 9 p.m.

Jhpiego - an Affiliate of Johns Hopkins University - Reception

Hilton - Holiday Ballroom 5 (East Building, Second Floor)
Tuesday, November 7, 7:15 p.m. - 9:30 p.m.

Northeast Regional Center for Excellence in Vector-Borne Diseases - Satellite Meeting for Centers for Excellence in Vector-Borne Disease

Hilton - Holiday Ballroom 2 (East Building, Second Floor)
Tuesday, November 7, 7:15 p.m. - 11 p.m.

Related Organization Meetings (at press time)

Wednesday, November 8

Bill & Melinda Gates Foundation Side Meeting

Hilton - Hopkins (West Building, Third Floor)
Wednesday, November 8, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Douglass (West Building, Third Floor)
Wednesday, November 8, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Key Ballroom 4 (West Building, Second Floor)
Wednesday, November 8, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Key Ballroom 6 (West Building, Second Floor)
Wednesday, November 8, 8 a.m. - 8 p.m.

Infectious Diseases Data Observatory - Stakeholder Meeting

Hilton - Tubman AB (West Building, Third Floor)
Wednesday, November 8, 8 a.m. - 8 p.m.

IVCC Meeting

Hilton - Brent (West Building, Third Floor)
Wednesday, November 8, 8 a.m. - 6 p.m.

Malaria Eradication Scientific Alliance (MESA) Meeting

Hilton - Key Ballroom 10 (West Building, Second Floor)
Wednesday, November 8, 8 a.m. - 8 p.m.

PATH Malaria Vaccine Initiative Meeting

Hilton - Key Ballroom 2 (West Building, Second Floor)
Wednesday, November 8, 8 a.m. - 8 p.m.

PATH Malaria Vaccine Initiative Meeting

Hilton - Key Ballroom 1 (West Building, Second Floor)
Wednesday, November 8, 8 a.m. - 8 p.m.

Takeda Pharmaceuticals International AG - Staff Meeting

Hilton - Blake (East Building, Second Floor)
Wednesday, November 8, 8 a.m. - 5 p.m.

PATH - Roundtable Discussion: Critical Attributes and Program Feasibility of a Microarray Patch for Primaquine Delivery Meeting

Hilton - Holiday Ballroom 2 (East Building, Second Floor)
Wednesday, November 8, 12:30 p.m. - 1:30 p.m.

ExxonMobil Foundation - Global Health Scholars Meet and Greet

Hilton - Key Ballroom 9 (West Building, Second Floor)
Wednesday, November 8, 1:30 p.m. - 6:30 p.m.

Coalition Against Typhoid and TyVAC - Integration and Innovation to #TakeOnTyphoid Meeting

Hilton - Ruth (East Building, First Floor)
Wednesday, November 8, 4 p.m. - 6 p.m.

Thursday, November 9

Bill & Melinda Gates Foundation Side Meeting

Hilton - Key Ballroom 6 (West Building, Second Floor)
Thursday, November 9, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Douglass (West Building, Third Floor)
Thursday, November 9, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Hopkins (West Building, Third Floor)
Thursday, November 9, 8 a.m. - 8 p.m.

Bill & Melinda Gates Foundation Side Meeting

Hilton - Key Ballroom 4 (West Building, Second Floor)
Thursday, November 9, 8 a.m. - 8 p.m.

IVCC - ESAC 5 Meeting

Hilton - Key Ballroom 5 (West Building, Second Floor)
Thursday, November 9, 7 a.m. - 6 p.m.

Infectious Diseases Data Observatory - Stakeholder Meeting

Hilton - Tubman AB (West Building, Third Floor)
Thursday, November 9, 8 a.m. - 8 p.m.

IVCC - ESAC 5 Meeting

Hilton - Key Ballroom 2 (West Building, Second Floor)
Thursday, November 9, 8 a.m. - 6 p.m.

IVCC - ESAC 5 Meeting

Hilton - Key Ballroom 1 (West Building, Second Floor)
Thursday, November 9, 8 a.m. - 6 p.m.

IVCC Meeting

Hilton - Brent (West Building, Third Floor)
Thursday, November 9, 8 a.m. - 6 p.m.

Related Organization Meetings (at press time)

Malaria Eradication Scientific Alliance (MESA) - Ivermectin Roadmap Kick off Meeting

Hilton - Key Ballroom 10 (West Building, Second Floor)
Thursday, November 9, 8 a.m. - 6 p.m.

Takeda Pharmaceuticals International AG - Staff Meeting

Hilton - Blake (East Building, Second Floor)
Thursday, November 9, 8 a.m. - 5 p.m.

University of California Davis and The NOG Partnership for Dengue Control - Vaccine & Vector Control Trial Meeting

Hilton - Tilghman (West Building, Third Floor)
Thursday, November 9, 8 a.m. - 6 p.m.

US Military HIV Research Program/Henry M. Jackson Foundation - AFRICOS Meeting

Hilton - Ruth (East Building, First Floor)
Thursday, November 9, Noon - 4 p.m.

Sanofi Pasteur - DRC Meeting

Marriott - Stadium 1-3
Thursday, November 9, 1 p.m. - 6 p.m.

Sanofi Pasteur - DRC Meeting

Marriott - Promenade
Thursday, November 9, 6:30 p.m. - 9:30 p.m.

Friday, November 10

IVCC - ESAC 5 Meeting

Hilton - Tubman AB (West Building, Third Floor)
Friday, November 10, 8 a.m. - 6 p.m.

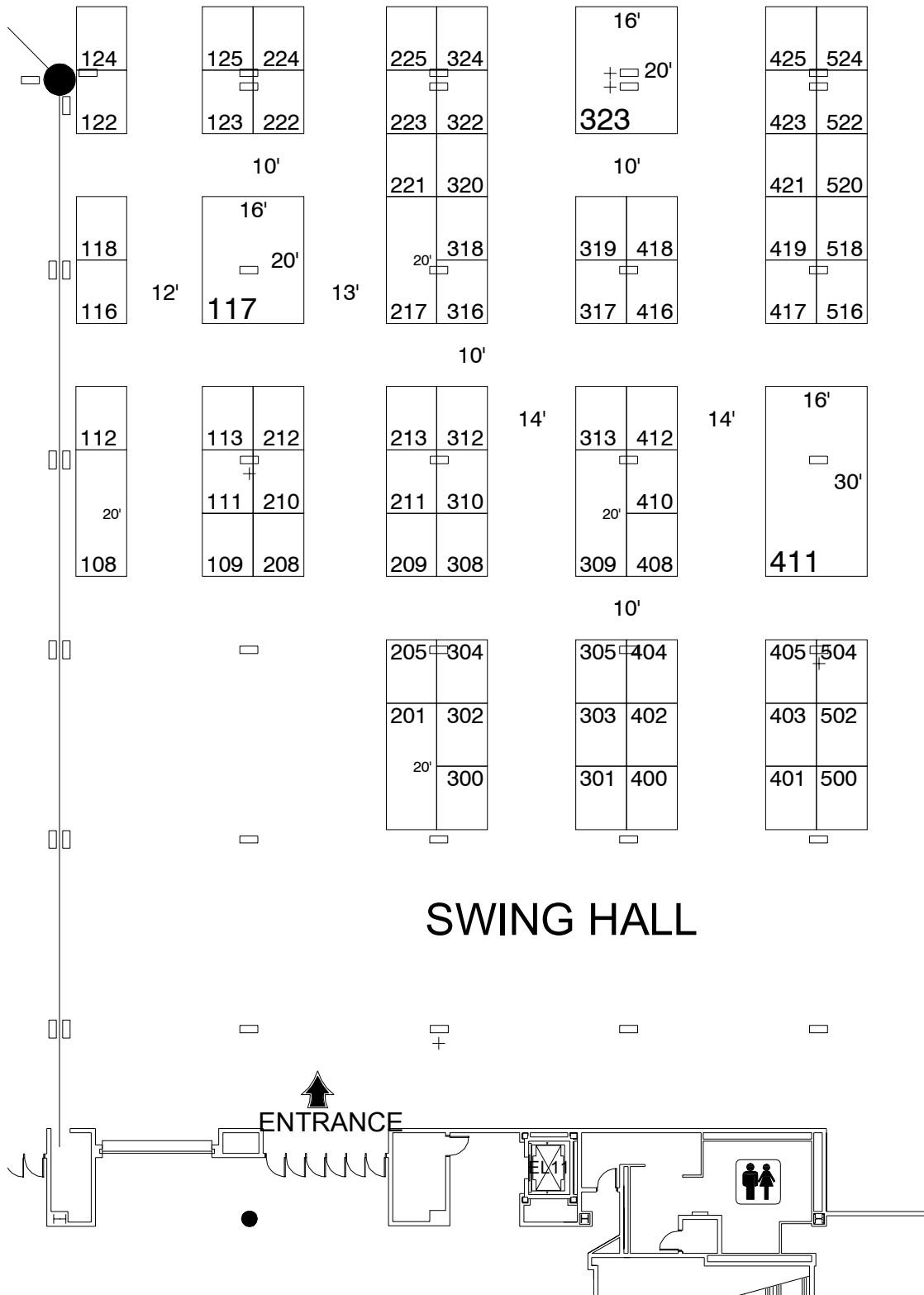
IVCC - ESAC 5 Meeting

Hilton - Carroll AB (West Building, Third Floor)
Friday, November 10, 8 a.m. - 6 p.m.

Sanofi Pasteur - DRC Meeting

Marriott - Stadium 1-3
Friday, November 10, 8 a.m. - 1:15 p.m.

Exhibit Hall Floor Plan



Exhibitor, Sponsor and Supporter Directory (at press time)

Abt Associates

Booth 303

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Website: www.abtassociates.com

Abt Associates is a mission-driven, global leader in research, evaluation and program implementation 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 one of the top 40 international development innovators. The company has multiple offices in the U.S. and program offices in more than 40 countries.

ACE RESEARCH

Booth 401

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Website: www.aceresearchafrica.com

ACE Research is Africa niche full service CRO specializing in early and late stage clinical development of vaccines, drugs, medical devices and global health consulting. With leading infectious disease and medical ethics experts, and access to sites across Africa, we provide our customers portfolio of custom clinical trial services such as Regulatory strategy and submission, Project Management, Quality Clinical Trial Oversight, Quality assurance including GCP compliance, Site Feasibility, Selection and Initiations, Recruitment and Retention, Clinical Supplies Management, Clinical Site Agreements, Site Study Materials and Translation, Investigational Product (IP) Management and Biological Material Transfer.

ACS Publications

SPONSOR

Booth 209

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Website: http://pubs.acs.org

ACS Publications is the publishing arm of the American Chemical Society and the publisher of more than 50 peer-reviewed academic journals, including *ACS Infectious Diseases* and *ACS Omega*. *ACS Infectious Diseases* is the first journal to highlight chemistry and its role in the multidisciplinary and collaborative fields of infectious disease

research. *ACS Omega* is a fully open-access, multidisciplinary journal covering chemistry and interfacing areas of science. Read and submit your research at pubs.acs.org/acsinfectious and pubs.acs.org/acsomega.

Alere Inc.

Booth 308

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Alere believes that when diagnosing and monitoring health conditions, Knowing now matters.™ Alere delivers on this vision by providing reliable and actionable information through rapid diagnostic tests, enhancing clinical and economic health outcomes globally. Headquartered in Waltham, MA, Alere focuses on rapid diagnostics for infectious disease, cardiometabolic disease and toxicology. For more information on Alere, please visit www.alere.com.

Altona Diagnostics USA, Inc.

Booth 211

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Website: www.altona-diagnostics.com

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.

Antigen Discovery Inc.

Booth 412

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ADI's novel proteome microarray approach significantly decreases the time and cost required to perform proteome-wide antigen screening by eliminating the time consuming steps involved in traditional cloning, protein, expression and screening methodologies. ADI's flexible and robust proteome microarray platform facilitates the discovery of diagnostic biomarkers, vaccine candidates, as well as therapeutic antibody discovery and target validation. Antigen Discovery's customers and partners include NIH, NIAID, pharmaceutical and biotechnology companies, universities, medical centers, Bill & Melinda Gates Foundation as well as world-wide

Exhibitor, Sponsor and Supporter Directory (at press time)

consortium working in the areas of infectious disease and vaccine development.

arctec **Booth 417**

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Arctec at the London School of Hygiene and Tropical Medicine is a world-leading independent test center for consultancy, and the evaluation and development of arthropod pest control technologies including repellents and insecticides. We offer unique access to our internationally renowned scientists and world-class experimental facilities. We can test almost any arthropod control product and offer the development of new protocols for testing novel products. We also have facilities to perform clinical trials.

Bayer **Booth 217/219**

SPONSOR

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Website: www.vectorcontrol.bayer.com

Bayer is a Life Science company with over 150 year history and core competencies in the areas of health care and agriculture. We contribute to advancing life by finding solutions to some of the major challenges of our time. In this regard we are committed to the fight against vector-borne and neglected tropical diseases.

BEI Resources **Booth 520**

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Website: www.beiresources.org

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.

Bill & Melinda Gates Foundation

SPONSOR

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Email: info@gatesfoundation.org
Website: www.gatesfoundation.org

Guided by the belief that every life has equal value, the Bill & Melinda Gates Foundation works to help all people lead healthy, productive lives. In developing countries, it focuses on improving people's health and giving them the chance to lift themselves out of hunger and extreme poverty. In the United States, it seeks to ensure that all people – especially those with the fewest resources – have access to the opportunities they need to succeed in school and life. Based in Seattle, the foundation is led by CEO Dr. Susan Desmond-Hellmann and co-chair William H. Gates, Sr., under the direction of Bill and Melinda Gates and Warren Buffett.

BioFire Defense **Booth 118**

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Phone: +1-801-262-3592
Email: matts@biofiredefense.com
Website: www.biofiredefense.com

At BioFire Defense we deliver a fully integrated suite of biological agent identification products. Our FilmArray system is able to identify dozens of the most lethal viruses and bacteria, including emerging infectious diseases. The easy-to-use instrument represents the next generation in automated detection systems. Our products and services speed up medical results, help people stay healthy and make communities more secure. Simply put, we make the world a safer and healthier place.

Biogents AG **Booth 416**

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Website: www.biogents.com

Biogents AG is an innovative company based in Germany on the forefront of mosquito control research and focuses on the development and production of highly efficient mosquito traps. Biogents traps are the latest innovation in mosquito control traps and incorporate patented technology. Biogents also runs a complementary contract research and development unit in the field of mosquito repellents and related products.

Exhibitor, Sponsor and Supporter Directory (at press time)

BioMed Central

SPONSOR

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Website: www.biomedcentral.com

BioMed Central is an online STM publisher of more than 270 peer-reviewed, open access journals. Our portfolio of journals spans all areas of biology, biomedicine and medicine, such as Journal of Cardiovascular Magnetic Resonance and Journal of Therapeutic Ultrasound. All original research articles published by BioMed Central are made freely accessible online immediately upon publication, whilst authors retain copyright of their work. BioMed Central is owned by Springer Nature, and also hosts the SpringerOpen platform.

Burroughs Wellcome Fund/ Wellcome Trust

SUPPORTER

Booth 116

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Website: www.bwfund.org

Wellcome are a global charitable foundation, both politically and financially independent. We support scientists and researchers

We work to improve health by funding great ideas. Our funding schemes support individuals, teams, resources, seed ideas, places and major initiatives in these areas:

- biomedical science
- population health
- product development and applied research
- humanities and social science
- public engagement and creative industries.

Carramore International Ltd

Booth 516

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Email: a.grant@carramore.com
Website: www.carramore.com

Carramore is a supplier of custom services to medical projects throughout the world. Our services are:

- Product sourcing and supply, including the associated logistics
- Third party logistics, including infectious substances

Our reputation is founded on our ability to anticipate,

overcome and manage the challenges that arise. Our experience in meeting such challenges is unsurpassed.

Catholic Relief Services

Booth 403

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Website: www.crs.org

As a leader in international humanitarian aid, CRS often goes where others don't. Our international health programs are designed to address inequities, support universal access to services with long lasting results in close collaboration with Ministries of Health. Our focus is on elimination of infectious diseases. We have been part of the successful elimination efforts in polio and Guinea Worm, and currently work towards elimination of malaria, HIV, and TB. Visit us to learn more.

Celgene Global Health, Celgene Corporation

SPONSOR

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Email: vkhetani@celgene.com
Website: www.celgene.com/responsibility/global-health

Celgene Global Health (CGH) is a dedicated R&D unit of Celgene committed to discovering, developing and delivering novel drugs for Diseases of the Developing World (DDWs). Collaborating with non-profit and academic institutions around the globe, CGH has utilized the company's library of more than 400,000 compounds to evaluate candidates for drug development for DDWs. More than ten discovery and development programs are ongoing in several disease areas such as malaria and tuberculosis.

Centers for Disease Control and Prevention - National Center for Emerging and Zoonotic Infectious Diseases

Booth 502

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CDC's National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) works to protect people in the United States and around the world from a wide range of infectious diseases. NCEZID's mission is to reduce illness and death associated with emerging and zoonotic infectious diseases and to protect against their spread.

Exhibitor, Sponsor and Supporter Directory (at press time)

Centre for Tropical Medicine & Global Health, University of Oxford

Booth 312

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Website: www.tropicalmedicine.ox.ac.uk

The Centre for Tropical Medicine and Global Health is a world-leading Centre within the Nuffield Department of 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 behavioral sciences, with capacity building integral to all of our activities. Find out more at www.tropicalmedicine.ox.ac.uk.

CTK Biotech, Inc.

Booth 404

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Website: ctkbiotech.com

Focusing on improving global health, CTK develops & manufactures innovative IVD technologies including rapid tests, elisa, pcr, external controls, instruments, and reagents. Our products specialize in tropical diseases, parasitic infections, blood borne, gastrointestinal illnesses along with cancer/hormone/neonatal tests. Development, production and use of proprietary recombinant antigens & antibodies guarantee consistent supply of high quality products at an exceptional value.

CTK is a US-based company located in San Diego, California. ISO 13485:2016, GMP, US FDA registered

DCN Diagnostics

Booth 319

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Website: www.dcndx.com

DCN is a contract developer of rapid diagnostic tests focused on lateral flow and flow through assays. DCN is ISO 13485:2016 and ISO 9001:2015 compliant. Their development process integrates the assay and device development to ensure commercial success for the product. Additionally, DCN's catalogue includes education and training services, lateral flow products and materials, and a range of consulting services to assist our customers with development, manufacturing or commercialization.

Drugs for Neglected Diseases initiative (DNDi) Booth 318

Contact: Ilan Moss, Senior Communications Manager
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New York, NY 10005 USA
Phone: +1-646-616-8681
Email: imoss@dndi.org
Website: www.dndi.org

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.

EuPathDB/University of Pennsylvania & University of Georgia

Booth 113

Contact:
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EuPathDB - University of Georgia, Susanne Warrenfeltz
VectorBase - Gloria Giraldo-Calderon
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info@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.

FHI 360 Booth 301

1825 Connecticut Ave
Washington, DC 20009 USA
Website: www.fhi360.org

FHI 360 is an international nonprofit working to improve the health and well-being of people in the United States and around the world. We team with governments and civil society to create jobs, educate children, provide lifesaving health care and bring about positive social change. We do this by using research and evidence to design and deliver programs that change behaviors, increase access to services and improve lives

Exhibitor, Sponsor and Supporter Directory (at press time)

The Geneva Foundation

Booth 123

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Established in 1993 as 501(c)3 non-profit, Geneva advances military medicine by delivering full spectrum scientific, technical, and program management expertise in the areas of federal grants, industry-sponsored clinical trials, federal contracts, and event management.

Global Health Fellows Program II at the Public Health Institute

Booth 300

Contact: Katy Magill, Recruitment Specialist
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The Global Health Fellows Program (GHFP) II is the US Agency for International Development (USAID) Global Health (GH) bureau's premier Fellowship program that identifies and supports diverse, technically excellent professionals at all levels to achieve the Agency's health priorities. Through GHFP-II, USAID/GH is contributing meaningfully to identifying and training a global health workforce that mirrors the American public and brings a wide range of skills to the global health field.

The Global Health Network

Booth 112

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The Global Health Network aims to accelerate and streamline research through an innovative digital community, facilitating collaboration and resource sharing for global health. The Global Health Network provides indispensable research tools and resources, such as free certified E-learning courses; Site-Finder, a collaboration-finding tool for linking research sites and studies seeking sites; Process Map to guide the set-up of research studies; and Professional Membership Scheme for tracking continued professional development.

Global Health NOW

Booth 317

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Global Health NOW is a one-stop source for smartly curated news and original articles for the global health community. Every weekday, GHN aggregates and summarizes the latest global health news—delivering all the day's critical stories to your inbox. Visit our news website www.globalhealthnow.org and stop by and sign up for your free subscription to our newsletter.

GSSHealth

Booth 504

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Website: www.gsshealth.com

Our team includes medical technologists, product development experts and forensic scientists with extensive field experience in resource-limited settings. Since 2008, we have provided the tools and technical capacity to establish quality-assured laboratory testing in low and low-middle income countries. We utilize our business, public health, big data and analytical skills to bring unique and cost-effective solutions to public health problems. We support our partners to strengthen disease prevention, detection and response in the Americas, Africa, Asia Pacific and South East Asia.

Helen Keller International/ MMDP Project

Booth 302

Contact: Stefania Slabyj, Project Director
1889 F St NW, 4th Floor
Washington, DC 20009 USA
Email: MMDPProject@hki.org
Website: www.mmdpproject.org

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.

Exhibitor, Sponsor and Supporter Directory (at press time)

Hemex Health, Inc.

Booth 310

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Hemex Health has developed a point-of-care diagnostic platform for malaria and sickle cell disease optimized for resource-limited settings: it is easy-to-use, affordable, portable, battery-powered and robust for challenging environments. A custom disposable using a drop of blood (finger-prick) is inserted directly into the reader, which automatically provides fast (1 minute malaria, 8 minutes sickle cell), accurate, and easy-to-interpret results.

Henry M. Jackson Foundation

Booth 304

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The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. is a private, not-for-profit organization established in 1983 and authorized by Congress to support medical research and education at the Uniformed Services University of the Health Sciences and throughout the broader military medical community. We serve military, academic and government clients by administering, managing and supporting preeminent scientific programs that benefit members of the armed forces and civilians alike. For more information, visit www.hjf.org.

HUMAN Gesellschaft für Biochemica und Diagnostica mbH

Booth 309/311

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With a clear dedication to provide laboratory diagnostics worldwide HUMAN within the past 45 years has become a recognized and reliable partner for products of high quality, technologies, solutions and services. HUMAN's comprehensive portfolio of more than 400 products from reagents to automated systems covers almost all areas of modern routine laboratory work up as well as solutions for infectious diseases including molecular diagnostics.

IAMAT – International Association for Medical Assistance to Travellers

SUPPORTER

67 Mowat Avenue, Suite 036
Toronto, ON M6K 3E3 Canada
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 health information and an international network of English-speaking doctors. The non-profit organization also awards travel medicine scholarships to health practitioners from countries where travel medicine is an emerging specialty. The scholarship program aims to advance travel medicine education and enhance care for travellers and local patients. 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 210

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Website: www.icf.com

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.

International Society of Travel Medicine

Booth 111

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The International Society of Travel Medicine promotes and fosters healthy and safe travel through the education of travellers and those who counsel travellers. The Society also works to identify and raise awareness of social, environmental, cultural and health issues caused by travel and tourism within destination communities and with the responsibility to encourage and conduct research and develop strategies to protect local destination communities from negative impacts through tourism.

Exhibitor, Sponsor and Supporter Directory (at press time)

IVCC

Booth 108/110

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Website: www.ivcc.com

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

Jhpiego - an affiliate of Johns Hopkins University

Booth 500

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Phone: +1-410-537-1800
Email: info@jhpiego.org
Website: www.jhpiego.org

Jhpiego, a non-profit affiliated with The Johns Hopkins University, works to prevent the needless deaths of women and their families. For over 40 years, Jhpiego has developed strategies to help over 150 countries care for themselves by training competent health care workers, strengthening health systems and improving delivery of care. Jhpiego works with health experts, governments and community leaders to provide innovative, effective and low-cost health care solutions which are breaking down barriers to high-quality health care for the world's most vulnerable populations.

Johns Hopkins School of Nursing

Booth 124

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The mission of the Johns Hopkins School of Nursing is to improve the health of individuals and diverse communities locally and globally through leadership and excellence in nursing education, research, practice, and service. The academic rigor of our programs, the extraordinary nursing scholarship of our faculty, and our reputation for shaping graduates who are leaders in their profession position us as one of the top nursing schools in the U.S.

The Global Vector Hub, London School of Hygiene & Tropical Medicine

Booth 419

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Email: james.logan@lshtm.ac.uk

Website: <https://www.lshtm.ac.uk/zikaplan>

The Global Vector Hub is an open access, interactive resource that not only has the capacity to transform vector research and vector control programmes, but revolutionise our preparedness and ability to respond quickly and effectively to vector-borne disease outbreaks. We aim to bring together researchers and health workers on the largest scale seen, cutting across several disciplines, diseases and vectors around the world by developing a global platform for collecting, sharing and disseminating data and information.

Longhorn Vaccines and Diagnostics LLC

Booth 324

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Email: chris@lhnvd.com
Website: www.lhnvnd.com

Privately owned Longhorn's PrimeStore® Molecular Transport Medium (MTM) facilitates sample collection and transport by inactivating viral and bacterial pathogens and preserving and stabilizing naked RNA and DNA at ambient or elevated temperatures thereby providing safe, non-hazardous samples for MDx and NGS of human, veterinary, clinical trial and biobanking samples without any cold chain. Sample types can include sputum, nasal, oral and other secretions/bodily fluids/swabs, urine, stool, blood/plasma/serum, insect vectors and fresh tissue.

Luminex Corporation

Booth 222

Contact: Josh Jenkins, Business Manager - LTG
12212 Technnology Blvd.
Austin, TX 78727 USA
Phone: +1-512-219-8020
Email: mhager@luminexcorp.com
Website: www.luminexcorp.com

Luminex Corporation 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, genomic and proteomic research, and personalized medicine. 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. For further information, please visit <http://www.luminexcorp.com/>.

Exhibitor, Sponsor and Supporter Directory (at press time)

Manhiça Health Research Center

Booth 421

Contact: Sonia Mocumbi, Head of Advocacy & Communication
Rua 12, Cambeve, Vila da Manhica
Maputo, CP1929 Mozambique
Phone: +25 882 289 4441
Email: sonia.mocumbi@manhica.net
Website: www.manhica.net

We will have corporate material to promote the activities of our institution as Roll Ups, posters, leaflets, videos, etc.

Medical Care Development International (MCDI)

Booth 213

Contact: My-Anh Ha, Senior Business Development Manager
8401 Colesville Road, Suite 425
Silver Spring, MD 20910 USA
Phone: +1-301-562-1920
Email: mcdi@mcdi.org
Website: www.mcdinternational.org

For over 40 years in over 40 countries, MCDI has worked to improve the health of vulnerable populations globally through innovative, integrated, sustainable and locally-driven interventions. MCDI collaborates with donors, national governments, the private sector, health agencies, communities and local stakeholders to improve health and save lives in the following areas: malaria control; water, sanitation and hygiene; maternal, neonatal and child health; Zika; cervical cancer screening and treatment; HIV/AIDS and TB; and other communicable diseases.

Medicines for Malaria Venture

Booth 418

Contact: Adam P. Aspinall
ICC, Route de Pre-Bois 20
Geneva, 1215 Switzerland
Phone: +41 22 555 0300
Email: aspinalla@mmv.org
Website: www.mmv.org

MMV is a leading product development partnership (PDP) in the field of antimalarial drug research and development. Its mission is to reduce the burden of malaria by discovering, developing and delivering new, effective and affordable antimalarial drugs.

MMV and partners have built the largest portfolio of antimalarial R&D and access projects ever assembled, and brought forward seven new medicines. MMV's success is based on its network of over 400 pharmaceutical, academic and endemic-country partners.

New Life Diagnostics LLC

Booth 305

Contact: Dave Lambillotte, Consultant
2722 Loker Ave West, Suite G
Carlsbad, CA 92010 USA
Phone: +1-619-733-7386
Email: info@newlifediagnosics.com
Website: www.newlifediagnosics.com

Developer of serology and fecal assays for infectious diseases. Assay formats are ELISA, rapid and molecular with a specialization in parasitic and neglected tropical diseases. Company works closely with researchers throughout the world to commercialize assays based on the researchers work.

NIH/NIAID Filariasis Research Reagent Resource Center (FR3)

Booth 518

Contact: Shelly Michalski, Director of Communication
University of Wisconsin-Oshkosh
Biology Department
800 Algoma Blvd.
Oshkosh, WI 54901 USA
Phone: +1-920-424-7082
Email: michalsk@uwosh.edu
Website: www.filariasiscenter.org

The Filariasis Research Reagent Resource Center (FR3) provides filariasis reagents, protocols, and technical support for the NTD research community. Supported by NIAID, the FR3 distributes parasites, vectors, and molecular and serological reagents. Drive Andy Moorhead (University of Georgia; UGA) is the director and PI of the FR3. UGA subcontracts with Smith College (Drive Steven Williams) for molecular resources, and with University of Wisconsin-Oshkosh (Drive Shelly Michalski) for maintenance of *Acanthocheilonema viteae* and management of informational resources.

NIH NIAID Schistosomiasis Resource Center

Booth 522

Contact: Margaret Mentink-Kane, Principal Investigator
9410 Key West Ave.
Rockville, MD 20850 USA
Phone: +1-703-786-9262
Email: mmentinkkane@afbr-bri.com
Website: www.afbr-bri.com

The Schistosomiasis Resource Center (SRC) provides three major strains of snails (*Biomphalaria glabrata*, *Bulinus truncatus* and *Oncomelania hupensis*) and rodents infected with *S. haematobium*, *S. japonicum* and *S. mansoni*. Molecular reagents include nucleic acids and genomic libraries from the various life cycle stages of the *Schistosoma* species (cercariae, schistosomula, adult worms and eggs).

Exhibitor, Sponsor and Supporter Directory (at press time)

Omega Diagnostics Ltd

Booth 208

Contact: John Bannister, Global Health Regional Sales Director
Omega House, Hillfoots Business Village
Alva, Clackmannanshire FK12 5DQ
Scotland, United Kingdom
Phone: +0044 1259 763 030
Email: odl@omegadiagnostics.co.uk
Website: www.omegadiagnostics.co.uk

Omega Diagnostics, celebrating its 30th year in the manufacture and supply of convenient and high quality diagnostic tests, is pleased to support the ASTMH Annual Meeting. Come and meet us to hear about VISITECT® CD4, the world's first instrument-free rapid test for the determination of CD4 baseline in people living with HIV, VISITECT® Malaria RDTs designed for use at the point-of-care and other infectious disease rapid tests.

Oxford University Press

Booth 223

Contact: Donna Hutchinson, Marketing Executive
198 Madison Avenue
New York, NY 10016 USA
Phone: +1-800-461-7556
Email: custserv.us@oup.com
Website: www.oup.com

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

PaxVax, Inc.

Booth 524

Contact: Warisha Khan, Associate Marketing Manager
555 Twin Dolphin Drive, Suite 260
Redwood City, CA 94065 USA
Phone: +1-650-847-1075
Email: wkhan@paxvax.com
Website: www.paxvax.com

PaxVax is a leading independent vaccine company devoted to developing and commercializing specialty vaccines that protect against existing and emerging infectious diseases. We provide effective tools for health care providers who serve the 100 million people per year who travel to countries where these diseases are present.

We have achieved groundbreaking milestones, commercializing vaccines for typhoid fever (Vivotif®) and cholera (Vaxchora™), and have a robust pipeline with vaccines at various stages of preclinical and clinical developments for adenovirus, chikungunya, hepatitis A, HIV and Zika.

PLOS Neglected Tropical Diseases

SPONSOR

Contact: Charlotte Bhaskar, Publications
Manager: *PLOS Neglected Tropical Diseases*
1160 Battery Street, Suite 225
San Francisco, CA 94111 USA
Phone: +1-415-624-1200
Email: cbhaskar@plos.org
Website: www.plos.org

The first journal solely devoted to the world's most neglected tropical diseases, *PLOS Neglected Tropical Diseases* publishes leading research and commentary on all scientific, medical, political and public health aspects of these forgotten diseases affecting the world's most neglected people. *PLOS Neglected Tropical Diseases* publishes research devoted to the pathology, epidemiology, prevention, treatment and control of the neglected tropical diseases (NTDs), as well as public policy relevant to this group of diseases.

PLOS: Public Library of Science

Booth 313

Contact: Charlotte Bhaskar, Publications Manager: *PLOS Neglected Tropical Diseases*
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Email: cbhaskar@plos.org
Website: www.plos.org

PLOS (Public Library of Science) is a nonprofit Open Access publisher, innovator and advocacy organization dedicated to accelerating progress in science and medicine by leading a transformation in research communication. The PLOS suite of journals contain rigorously peer-reviewed Open Access research articles from all areas of science and medicine, together with expert commentary and analysis. In addition to journals, the organization advances innovations in scientific communication through Collections, Communities and the PLOS Blog Network.

Precision Antibody

Booth 405

Contact: Julio Cabrera, Technical Sales, Production
9130 Red Branch, Suite X
Baltimore, MD 21045 USA
Phone: +1-410-884-4100
Email: jcabrera@precisionantibody.com
Website: www.precisionantibody.com

Precision Antibody delivers a comprehensive monoclonal antibody service that includes antigen design, antibody development, multiplex high-throughput flow analysis, Octet & Biacore affinity analysis, assay development (ELISA & Lateral Flow), and large and small scale antibody and antigen production & purification. We are OLAW approved and AAALAC accredited. Please stop by booth 405 to talk to our team about our new anti-HRP2 malaria antibodies.

Exhibitor, Sponsor and Supporter Directory (at press time)

RTI International

Booth 212

Contact: Ned Burns, Business Development Specialist
701 13th Street NW, Suite 750
Washington, DC 20005 USA
Phone: +1-202-728-2081
Email: nburns@rti.org
Website: www.rti.org/globalhealth

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.

Sanaria Inc.

Booth 402

Contact: Aris Walker, Project Coordinator
9800 Medical Center Dr.
Rockville, MD 20850 USA
Phone: +1-240-753-3528
Email: awalker@sanaria.com
Website: www.sanaria.com

Sanaria's primary mission is to develop and commercialize whole-parasite sporozoite vaccines that confer high-level, long-lasting protection against *Plasmodium falciparum*, the malaria parasite responsible for more than 95% of malaria associated severe illness and death world-wide and the malaria parasite for which there is the most significant drug resistance. The overall mission includes developing vaccines that prevent all human malaria.

Sanofi Pasteur

SPONSOR

SUPPORTER

Contact: Roman Chicz, Head, External Research and Development
Phone: +1-617-866-4562
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.

Sawyer Products

Booth 410

Contact: John Smith, VP of Operations
PO Box 188
Safety Harbor, FL 34695 USA
Phone: +1-727-725-1177
Email: customer@sawyer.com
Website: www.sawyer.com

Sawyer Products offers technologically advanced solutions for protection against sun, bugs, water and injuries.

Shin Poong Pharmaceutical Co., Ltd.

Booth 316

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

Shin Poong is a Korea-based company mainly engaged in the manufacture of pharmaceuticals over 50 years and has developed PYRAMAX® (Pyronaridine-Artesunate) with Medicines for Malaria Venture. PYRAMAX® is the only ACT with a positive opinion from SRA for the treatment of both *P. falciparum* and *P. vivax* malaria in adults, children and infants over 5 kg. It is cross-referenced in WHO's list of prequalified medicines, and included WHO List of Essential Medicines for adults and children (EML, EMLc) in 2017.

Take on Typhoid/TyVAC

Booth 408

Contact: Leslie Jamka, Communications Specialist
685 West Baltimore Street, Room 480
Baltimore, MD 21201 USA
Phone: +1-410-706-5328
Email: TyVAC@som.umaryland.edu
Website: <http://www.medschool.umaryland.edu/CVD/TyVAC/>

The Typhoid Vaccine Acceleration Consortium (TyVAC), a partnership between the Center for Vaccine Development at the University of Maryland School of Medicine, the Oxford Vaccine Group at the University of Oxford, and PATH, an international nonprofit, aims to accelerate the introduction of new typhoid conjugate vaccines as part of an integrated approach to reduce the burden of typhoid in countries eligible for support from Gavi, the Vaccine Alliance.

Exhibitor, Sponsor and Supporter Directory (at press time)

Takeda Pharmaceuticals International AG

SPONSOR

Contact: Vanessa Kemp, Senior Manager Global Congresses
Thurgauerstrasse 130
Glattpark-Opfikon (Zurich) 8152 Switzerland
Phone: +41 44 555 1000
Email: vanessa.kemp@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>.

TDR, the Special Programme for Research and Training in Tropical Diseases (WHO) Booth 221

Contact: Jamie Guth, Communications Manager
20, Avenue Appia
Geneva, 1211 Switzerland
Phone: +41 79 441 2289
Email: guthj@who.int
Website: www.who.int/tdr

TDR, the Special Programme for Research and Training in Tropical Diseases, is a global programme of scientific collaboration that helps facilitate, support and influence efforts to combat diseases of poverty. TDR is hosted at the World Health Organization (WHO), and is sponsored by the United Nations Children's Fund (UNICEF), the United Nations Development Programme (UNDP), the World Bank and WHO. Information about TDR grants and supported research and training will be available.

TECHLAB, Inc. Booth 201/203

SPONSOR

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*.

University of Minnesota – Department of Medicine – Global Medical Education Booth 122

Contact: Sarah Sponsler, Program Coordinator
139 VCRC - 420 Delaware Street SE - MMC 284
Minneapolis, MN 55455 USA
Phone: +1-612-626-3526
Email: globalhealth@umn.edu
Website: www.dom.umn.edu/global-health

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

Exhibitor, Sponsor and Supporter Directory (at press time)

University of Notre Dame Eck Institute for Global Health

Booth 109

Contact: Sarah Craig, Communications Specialist
4147 Jenkins & Nanovic Hall
Notre Dame, IN 46556 USA
Phone: +1-574-292-8140
Email: craig.20@nd.edu
Website: <http://globalhealth.nd.edu/>

The Eck Institute for Global Health 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.

University Research Co., LLC

Booth 320

Contact: Hala Jassim AlMossawi, Senior Director of Technical Support & Elyse Callahan, Program Associate
5404 Wisconsin Avenue, Suite 800
Chevy Chase, MD 20815 USA
Phone: +1-301-654-8338
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Website: www.urc-chs.com

Founded in 1965, University Research Co., LLC (URC) is a global company that aims to improve the quality of health care, social services, and health education around the world. With a not-for-profit affiliate, the Center for Human Services (CHS), URC manages projects in over 45 countries, including the US. Through various approaches, URC addresses technical areas including but not limited to: HIV/AIDS, Malaria, Tuberculosis, Water, Sanitation and Hygiene (WASH), Health Workforce Development, and Maternal, Newborn and Child Health (MNCH).

Vysnova Partners, Inc.

Booth 322

Contact: Carlos G. Rivera, President & CEO
4915 St. Elmo Ave., Suite 403
Bethesda, MD 20814 USA
Phone: +1-301-830-8885
Email: crivera@vysnova.com
Website: www.vysnova.com

Vysnova staff have worked in more than 30 countries to advance population health and well-being. Whether it's Zika prevention research with the CDC in Peru, furthering the US Navy's infectious disease research efforts in Southeast Asia, or supporting the Demographic Health Survey for USAID throughout Africa, Vysnova knows how to initiate and implement regulatory-compliant projects internationally.

Walter Reed Army Institute of Research (WRAIR) Booth 205

Douglas Davis, Sr. 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://www.wrair.army.mil/>

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

DETAILED PROGRAM

Saturday, November 4

Pre-Meeting Course Registration

Convention Center - Pratt Street West Lobby (Level 300)
Saturday, November 4, 10 a.m. - 2 p.m.

ASTMH Council Meeting

Hilton - Holiday Ballroom 4/5 (East Building, Second Floor)
Saturday, November 4, Noon - 6 p.m.

Clinical (ACCTMTH) Pre-Meeting Course: Migrant Health: Addressing Health Disparities - A Guide for the Practitioner

Hilton - Holiday Ballroom 1/2 (East Building, Second Floor)
Saturday, November 4, 1 p.m. - 5 p.m.

This course offers a comprehensive examination of the health disparities and unique health needs of diverse migrant populations, the systems designed to respond to them, and the skills needed by their healthcare providers. The course will review the changes in migration over time and the value migrants bring to our societies. Various national screening strategies will be reviewed along with some disease-specific programs. Recent experiences in managing surges in migration will be presented. Cultural competence skills and their integral role in migrant care will be presented and illustrated through clinical cases. These topics will be presented by well-recognized faculty with a global perspective. The target audience includes any clinician who cares for migrants and would like to develop a deeper understanding of the broad context of migrant health and expand their knowledge of conditions and skills needed to provide optimal care for this population.

CO-CHAIR

Christina A. Greenaway
McGill University, Jewish General Hospital, Montreal, QC, Canada
Susan Kuhn
University of Calgary, Alberta Children's Hospital, Calgary, AB, Canada

1 p.m. INTRODUCTION - COURSE SCOPE AND GOALS

Christina A. Greenaway
McGill University, Jewish General Hospital, Montreal, QC, Canada
Susan Kuhn
University of Calgary, Alberta Children's Hospital, Calgary, AB, Canada

1:15 p.m. MIGRANT HEALTH NEEDS OVER TIME AND ACROSS THE MIGRATION SPECTRUM

Francesco Castelli
University of Brescia, Brescia, Italy

2 p.m. THE BENEFITS OF MIGRATION: GLOBALIZING HUMAN CAPITAL

Ambassador William Swing
International Organization for Migration, Geneva, Switzerland

2:45 p.m.
COFFEE BREAK

3 p.m. PRE-DEPARTURE SCREENING STRATEGIES: THE U.S. MODEL

William M. Stauffer
University of Minnesota, Minneapolis, MN, United States

4 p.m. POST-ARRIVAL AND MIXED SCREENING STRATEGIES: EVERYONE ELSE!

Christina A. Greenaway
McGill University, Jewish General Hospital, Montreal, QC, Canada

5 p.m.
ATTENDEE RECEPTION

Sunday, November 5

Registration

Convention Center - Pratt Street West Lobby (Level 300)
Sunday, November 5, 7 a.m. - 7:30 p.m.

Arbovirology (ACAV) Pre-Meeting Course: Clinical Presentation and Management of Arboviral Diseases: Lessons from the Bedside for Researchers at the Bench or in the Bush

Hilton - Holiday Ballroom 5 (East Building, Second Floor)
Sunday, November 5, 7 a.m. - 3:15 p.m.

Facing ongoing global arbovirus outbreaks in people and animals, the American Committee on Arthropod-Borne Viruses (ACAV) pre-meeting course will educate arbovirology researchers from the laboratory and field on clinical arbovirus disease. Participants will learn the clinical presentations of pathogenic arboviruses of humans and animals, how to diagnose and treat infections, and current progress on arbovirus therapeutics and vaccines in development. The course will focus on flaviviruses including Zika virus, alphaviruses and bunyaviruses that cause arthralgic, hemorrhagic or encephalitic disease.

CO-CHAIR

Lark Coffey
University of California Davis, Davis, CA, United States
Kathryn Hanley
New Mexico State University, Las Cruces, NM, United States
A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

7 a.m.
LIGHT CONTINENTAL BREAKFAST

7:45 a.m. WELCOME AND INTRODUCTION BY COURSE ORGANIZERS

Lark Coffey
University of California Davis, Davis, CA, United States
Kathryn Hanley
New Mexico State University, Las Cruces, NM, United States
A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

8 a.m.

DIAGNOSIS AND TREATMENT OF ARTHRALGIC AND HEMORRHAGIC ARBOVIRUSES IN HUMANS

Stephen Thomas

State University of New York Upstate Medical University, Syracuse, NY, United States

8:45 a.m.

DIAGNOSIS AND TREATMENT OF ENCEPHALITIC ARBOVIRUSES IN HUMANS

Tom Solomon

University of Liverpool, Liverpool, United Kingdom

9:30 a.m.

SPECIAL CONSIDERATION OF PRENATAL INFECTION WITH ARBOVIRUSES IN HUMANS

A. Desiree LaBeaud

Stanford University, Stanford, CA, United States

10 a.m.

COFFEE BREAK

10:15 a.m.

DIAGNOSIS AND TREATMENT OF ARTHRALGIC AND HEMORRHAGIC ARBOVIRUSES IN ANIMALS

Richard Bowen

Colorado State University, Fort Collins, CO, United States

11 a.m.

DIAGNOSIS AND TREATMENT OF ENCEPHALITIC ARBOVIRUSES IN ANIMALS

Kristen Bernard

University of Wisconsin Madison School of Veterinary Medicine, Madison, WI, United States

11:45 a.m.

LUNCH ON YOUR OWN

1 p.m.

CURRENT STATE OF FLAVIVIRUS VACCINES

Anna Durbin

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1:45 p.m.

CURRENT STATE OF ALPHAVIRUS VACCINES

Shannan Rossi

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

2:30 p.m.

ARBOVIRUS THERAPEUTICS: WHAT'S FLOWING FASTEST IN THE PIPELINE?

Pei-Yong Shi

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

3:15 p.m.

COURSE ADJOURNS

Clinical (ACCTMTH) Pre-Meeting Course: Migrant Health: Addressing Health Disparities - A Guide for the Practitioner

Hilton - Holiday Ballroom 1/2 (East Building, Second Floor)

Sunday, November 5, 7 a.m. - 3:45 p.m.

This course offers a comprehensive examination of the health disparities and unique health needs of diverse migrant populations, the systems designed to respond to them, and the skills needed by their healthcare providers. The course will review the changes in migration over time and the value migrants bring to our societies. Various national screening strategies will be reviewed along with some disease-specific programs. Recent experiences in managing surges in migration will be presented. Cultural competence skills and their integral role in migrant care will be presented and illustrated through clinical cases. These topics will be presented by well-recognized faculty with a global perspective. The target audience includes any clinician who cares for migrants and would like to develop a deeper understanding of the broad context of migrant health and expand their knowledge of conditions and skills needed to provide optimal care for this population.

CO-CHAIR

Christina A. Greenaway

McGill University, Jewish General Hospital, Montreal, QC, Canada

Susan Kuhn

University of Calgary, Alberta Children's Hospital, Calgary, AB, Canada

7 a.m.

NETWORKING BREAKFAST

8 a.m.

RESPONSE TO SURGES - THE EXPERIENCE WITH SYRIAN MIGRANTS AND THE EUROPEAN REFUGEE CRISES

Lavanya Narasiah

McGill University, Montreal, QC, Canada

Androula Pavli

Hellenic Center for Disease Control and Prevention, Athens, Greece

9 a.m.

NAVIGATING THE HEALTH CARE SYSTEM: VIDEO NARRATIVES OF THE MIGRANT PERSPECTIVE

Susan Kuhn

University of Calgary, Alberta Children's Hospital, Calgary, AB, Canada

9:30 a.m.

BEST PRACTICES IN MIGRANT HEALTH CARE: LESSONS FROM CLINIC

Patricia F. Walker

University of Minnesota and HealthPartners Travel and Tropical Medicine Center, St. Paul, MN, United States

10:30 a.m.

COFFEE BREAK

10:45 a.m.

CHALLENGES IN CASE MANAGEMENT

Lavanya Narasiah

McGill University, Montreal, QC, Canada

Rogelio Lopez-Velez

Hospital Ramon y Cajal, Madrid, Spain

11:45 a.m.
THE VFR TRAVELER: AN OPPORTUNITY FOR HEALTH PROMOTION

Elizabeth Day Barnett
Boston Medical Center, Boston, MA, United States

12:30 p.m.
LUNCH ON YOUR OWN

1:45 p.m.
GETTING THE DESIRED OUTCOMES: GOING BEYOND THE SCREENING BASICS IN HEPATITIS B AND C

Alexander Millman
Centers for Disease Control and Prevention, Atlanta, GA, United States

2:30 p.m.
GETTING THE DESIRED OUTCOMES: GOING BEYOND THE SCREENING BASICS IN ACTIVE AND LATENT TUBERCULOSIS

Dominik Zenner
University College London, London, United Kingdom

3:15 p.m.
WEARING YOUR ADVOCACY HAT IN MIGRANT HEALTH

Janet Cleveland
McGill University, Montreal, QC, Canada

3:45 p.m.
COURSE ADJOURNS

Parasitology (ACMCIP) Pre-Meeting Course: Single Cell Biology for Parasitologists

Hilton - Holiday Ballroom 4 (East Building, Second Floor)
Sunday, November 5, 7 a.m. - 4 p.m.

From transmission to pathology and treatment, parasitic diseases are the complex result of the actions of individual cells, of groups of cells or organs, and of whole organisms. Technological limitations have largely confined most research to examining bulk populations of host, parasite or vector cells. This has obscured important biology happening at the single cell level. There have been remarkable advances in the ability to identify, capture and analyze individual cells from their environment that are enabling research at a finer scale than previously feasible. This course will introduce the emerging tools that are being used to dissect the biology of single cells. The course will focus on four main areas: I) identification, marking and capture of single cells; II) 'omics approaches for single cell biology; III) data analysis for single cell biology; and IV) the scale and cost of single cell analysis. The course will draw from aspects of host, vector and parasite biology.

CO-CHAIR

Stephen M. Beverley
Washington University School of Medicine, St. Louis, MO, United States

Ian Cheeseman
Texas Biomedical Research Institute, San Antonio, TX, United States

7 a.m.
LIGHT CONTINENTAL BREAKFAST

7:45 a.m.
OPENING REMARKS

Stephen M. Beverley
Washington University School of Medicine, St. Louis, MO, United States

8 a.m.
HOW CAN PARASITOLOGY BENEFIT FROM SINGLE CELL RESEARCH?

Ian Cheeseman
Texas Biomedical Research Institute, San Antonio, TX, United States

8:45 a.m.
DISSECTING LIVER STAGE MALARIA PROGRESSION WITH SINGLE CELL IMAGING

Kirsten Hanson
University of Texas at San Antonio, San Antonio, TX, United States

9:30 a.m.
DISSECTION OF SEXUAL COMMITMENT IN MALARIA PARASITES USING HIGHLY PARALLEL SINGLE CELL TRANSCRIPTOMICS

Björn Kafsack
Weill Cornell Medical College, New York, NY, United States

10:15 a.m.
COFFEE BREAK

10:30 a.m.
MEASURING ANUEPLOIDY IN SINGLE LEISHMANIA PARASITES

Malgorzata A. Domagalska
Institute of Tropical Medicine, Antwerp, Belgium

11:15 a.m.
SINGLE CELL TRANSCRIPTOMICS OF PLASMODIUM VIVAX HYPNOZOITES

Richard Bartfai
Radboud Institute of Molecular Life Sciences, Nijmegen, Netherlands

Noon
LUNCH ON YOUR OWN

1:15 p.m.
SINGLE CELL DISSECTION OF SCHISTOSOMA STEM CELLS

Bo Wang
Stanford University, Stanford, CA, United States

2 p.m.
BIOINFORMATIC APPROACHES TO SINGLE CELL PARASITOLOGY

Jessica Kissinger
University of Georgia, Athens, GA, United States

2:45 p.m.
BREAK

3 p.m.
TRACING CELL LINEAGES

Patrick Cahan
Johns Hopkins School of Medicine, Baltimore, MD, United States

3:45 p.m.

CLOSING REMARKS

Stephen M. Beverley

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

Ian Cheeseman

Texas Biomedical Research Institute, San Antonio, TX, United States

4 p.m.

COURSE ADJOURNS

Global Health (ACGH) Pre-Meeting Course: The Economics of Health and Disease: Making the Case for Global Health Spending

Hilton - Holiday Ballroom 6 (East Building, Second Floor)

Sunday, November 5, 8 a.m. - 3:30 p.m.

Economics and health are inextricably intertwined. Income level, the distribution of income, social status, location and other social attributes have a critical impact on health and wellbeing for an individual and on population health. At the same time, health status enhances or limits an individual's and a nation's prospects for economic and human development. Disease and disability impose a grave economic burden, particularly on poor people and poor populations. Economics also plays a critical role in determining which health interventions will be implemented. Governments and donors generally require evidence of the preponderance of economic benefits over costs before they will implement programs for prevention or treatment. This course aims to answer questions that healthcare professionals may have about economic evaluations of health interventions. It includes an overview of the economic burden of disease. Topics include:

- How an economic study is framed
- Examples of economic studies
- The kinds of data health economists need to evaluate and defend expenditures
- How healthcare professionals can gather data needed for economic evaluation of their projects
- How to utilize economic data to promote global health at the local, national and international level

COURSE ORGANIZER

Eileen Stillwaggon

Gettysburg College, Gettysburg, PA, United States

CO-CHAIR

Ilin Chuang

Naval Medical Research Center, Silver Spring, MD, United States

Juliette Morgan

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

Christina Polyak

Military HIV Research Program MHRP HFJ, Walter Reed Army Institute of Research, Potomac, MD, United States

Miguel Reina Ortiz

University of South Florida, Tampa, FL, United States

8 a.m.

LIGHT CONTINENTAL BREAKFAST

8:30 a.m.

WELCOME AND INTRODUCTORY REMARKS: ECONOMICS AND HEALTH

Eileen Stillwaggon

Gettysburg College, Gettysburg, PA, United States

8:45 a.m.

FRAMING AN ECONOMIC EVALUATION - THE ECONOMIC EVALUATION TOOLKIT: COST-BENEFIT, COST-EFFECTIVENESS, COST-UTILITY

Phaedra Corso

Owens Institute for Behavioral Research, Athens, GA, United States

9:15 a.m.

QUESTION AND ANSWER SESSION

9:30 a.m.

THE ECONOMIC EVALUATION TOOLKIT: AN EXAMPLE (PART I)

Deborah McFarland

Emory University Rollins School of Public Health, Atlanta, GA, United States

10 a.m.

QUESTION AND ANSWER SESSION

10:15 a.m.

COFFEE BREAK

10:30 a.m.

THE ECONOMIC EVALUATION TOOLKIT: AN EXAMPLE (PART II)

Joseph D. Njau

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

11 a.m.

QUESTION AND ANSWER SESSION

11:15 a.m.

PANEL AND QUESTIONS

Moderator: Eileen Stillwaggon

Gettysburg College, Gettysburg, PA, United States

Phaedra Corso

Owens Institute for Behavioral Research, Athens, GA, United States

Deborah McFarland

Emory University Rollins School of Public Health, Atlanta, GA, United States

Joseph D. Njau

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

11:45 a.m.

LUNCH ON YOUR OWN

1 p.m.

KEYNOTE ADDRESS: THE ECONOMIC BURDEN OF DISEASE OF POVERTY ACROSS THE WORLD

Lorenzo Savioli

Liverpool School of Tropical Medicine, Chavannes de Bogis, Switzerland

1:45 p.m.

AN INNOVATIVE APPROACH TO ECONOMIC EVALUATION

Michelle Remme

London School of Hygiene & Tropical Medicine, London, United Kingdom

2:15 p.m.

POLITICAL CONSIDERATIONS FOR COMMUNICATING WITH POLICY MAKERS

Christopher Dickey

New York University College of Global Public Health, New York, NY, United States

2:45 p.m.

APPLYING ECONOMIC FINDINGS TO PROGRAMMATIC AND POLICY DECISIONS: TALKING TO MINISTERS AND GETTING THEM TO TALK TO EACH OTHER

Moderator: Eileen Stillwaggon
Gettysburg College, Gettysburg, PA, United States

Christopher Dickey
New York University College of Global Public Health, New York, NY, United States

Michelle Remme
London School of Hygiene & Tropical Medicine, London, United Kingdom

Lorenzo Savioli
Liverpool School of Tropical Medicine, Chavannes de Bogis, Switzerland

3:15 p.m.

COURSE WRAP-UP

3:30 p.m.

COURSE ADJOURNS

Young Investigator Award Sessions

SESSION CHAIR:

Edward Mitre
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

The Young Investigator Award is presented to outstanding young researchers during the Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research. 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:

William A. Petri, Sr. and Dr. Anne E. Petri

TECHLAB Inc. **CONTRIBUTOR**

The Petri Family

Anonymous

PLOS **FRIEND**

Young Investigator Award Session A

Convention Center - Room 318/319 (Level 300)

Sunday, November 5, 10 a.m. - 3 p.m.

JUDGE

Peter Crompton
National Institutes of Health, Rockville, MD, United States

Matthew B. Laurens
Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

Naomi W. Lucchi
Centers for Disease Control and Prevention, Atlanta, GA, United States

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ASSESSING THE NON-BIOLOGIC CONTRIBUTORS TO MORTALITY AMONG INPATIENTS WITH FEBRILE ILLNESS IN TANZANIA: A PROSPECTIVE COHORT SOCIAL BIOPSY STUDY

Michael Snavelly¹, Michael J. Maze², Charles Muiruri¹, Lilian Ngowi³, Flora Mboya³, Julia Beamesderfer⁴, Glory Makupa⁵, Anthon Mwingwa⁵, Bingileki F. Lwezaula⁶, Blandina T. Mmbaga³, Venance P. Maro⁵, John A. Crump², Jan Ostermann⁷, Matthew P. Rubach⁸

¹Duke Global Health Institute, Duke University, Durham, NC, United States,

²Centre for International Health, University of Otago, Dunedin, New Zealand,

³Kilimanjaro Christian Medical Center, Moshi, United Republic of Tanzania,

⁴University of Pennsylvania, Philadelphia, PA, United States, ⁵Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania,

⁶Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania,

⁷Arnold School of Public Health, University of South Carolina, Columbia, SC, United States, ⁸Division of Infectious Diseases, Duke University Medical Center,

Durham, NC, United States

270

SUBPATENT PLASMODIUM FALCIPARUM INFECTIONS AFTER TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA WITH DIHYDROARTEMISININ-PIPERAQUINE AND ARTEMETHER-LUMEFANTRINE IN WESTERN INDONESIA

Inke N. Lubis¹, Hendri Wijaya², Munar Lubis², Chairuddin P. Lubis², Khalid B. Beshir¹, Colin J. Sutherland¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom,

²University of North Sumatera, Medan, Indonesia

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MULTIPLE ANTIGEN RAPID DIAGNOSTIC TESTS FOR THE DIAGNOSIS OF SEVERE MALARIA IN HIGH-TRANSMISSION, RESOURCE-LIMITED SETTINGS

Ross M. Boyce¹, Raquel Reyes¹, Moses Ntaro², Edgar Mulogo², Michael Matte², Mark J. Siedner³

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States,

²Mbarara University of Science and Technology, Mbarara, Uganda,

³Massachusetts General Hospital, Boston, MA, United States

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CLINICAL RISK FACTORS FOR MORTALITY IN UGANDAN CHILDREN WITH SEVERE MALARIA

Ruth Namazzi¹, Andrea Conroy², Richard Idro¹, Paul Bangirana¹, Chandy John², Robert Opika Opoka¹

¹Makerere University, Kampala, Uganda, ²Indiana University, Indianapolis, IN, United States

460

CASES OF METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS: ASSESSING ITS RISE IN HOSPITAL AND COMMUNITY-ASSOCIATED CASES

Chinedu O. Oraka¹, Obiageli L. Offor²

¹Build Africa Research Capacity, Ottawa, ON, Canada, ²University of Texas,

Health Science Center at Houston, School of Public Health, Houston, TX, United States

495

EFFECTS OF IMMEDIATE VS. DELAYED IRON THERAPY ON NEUROBEHAVIORAL FUNCTION IN UGANDAN CHILDREN WITH SEVERE MALARIA

Meredith R. Hickson¹, Paul Bangirana², Andrew S. Ssemata², Sarah E. Cusick³, Robert O. Opoka², Maria Kroupina³, Chandy C. John⁴

¹University of Michigan Medical School, Ann Arbor, MI, United States,

²Makerere University College of Health Sciences, Kampala, Uganda, ³University of Minnesota Medical School, Minneapolis, MN, United States, ⁴Indiana

University School of Medicine, Indianapolis, IN, United States

497

PREDICTING MORTALITY FOR ADOLESCENT AND ADULT PATIENTS WITH FEVER IN RESOURCE-LIMITED SETTINGS**Manuela Carugati¹**, Helen L. Zhang¹, Venance P. Maro², Matthew P. Rubach¹, John A. Crump³¹Duke University Medical Center, Durham, NC, United States, ²Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania, ³Centre for International Health, University of Otago, Dunedin, New Zealand

511

MITIGATING IRON DEFICIENCY ANEMIA IN SCHOOL AGED CHILDREN IN MADURAI, INDIA**Sidarth R. Ganpati**

Edgemont High School, Scarsdale, NY, United States

601

ASSESSING THE EFFECT OF A NOVEL HOUSEHOLD WATER PASTEURIZATION INTERVENTION ON CHILD DIARRHEA: EVIDENCE FROM A RANDOMIZED CONTROLLED TRIAL IN THE PERUVIAN AMAZON**Kristen Heitzinger¹**, Claudio A. Rocha², Robert H. Gilman¹, Stephen E. Hawes³, Carlos A. Alvarez⁴, Carlton A. Evans¹¹A. B. Prisma, Lima, Peru, ²U.S. Medical Research Unit No. 6, Callao, Peru, ³University of Washington, Seattle, WA, United States, ⁴Loreto Regional Ministry of Health, Iquitos, Peru

781

CHEST ULTRASOUND VERSUS X-RAY FOR PULMONARY TUBERCULOSIS IN SOUTH AFRICAN CHILDREN**Charlotte C. Heuvelings¹**, Sabine Bélard¹, Savvas Andronikou², Halvani Moodley³, Norme Jamieson-Luff⁴, Martin P. Grobusch¹, Heather J. Zar⁴
¹Academic Medical Center/University of Amsterdam, Amsterdam, Netherlands, ²Bristol Royal Hospital for Children and University of Bristol, Bristol, United Kingdom, ³University of Witwatersrand, Johannesburg, South Africa, ⁴Red Cross War Memorial Children's Hospital, Cape Town, South Africa

789

EFFECT OF EXPOSURE HISTORY ON DENGUE INFECTION AND DISEASE: A STATISTICAL APPROACH AND ITS APPLICATION TO THE DENGUE COHORT IN NICARAGUA**Tim K. Tsang¹**, Ira Longini¹, M. Elizabeth Halloran², Yang Yang¹¹University of Florida, Gainesville, FL, United States, ²University of Washington, Seattle, WA, United States

1157

THE CHANGING EPIDEMIOLOGY OF LEPTOSPIROSIS IN MAINLAND CHINA AND ITS IMPACT ON ANNUAL DISEASE BURDEN ESTIMATES**Pandji W. Dhewantara¹**, Abdullah A. Mamun², Wen-Yi Zhang³, Danhuai Guo⁴, Wenbiao Hu⁵, Federico Costa⁶, Albert Ko⁷, Ricardo J. Soares-Magalhaes¹
¹School of Veterinary Science, University of Queensland, Gatton, Queensland, Australia, ²Institute for Social Science Research, University of Queensland, Brisbane, Queensland, Australia, ³Center for Disease Surveillance and Research, Institute of Disease Control and Prevention Academy of Military Medical Science, Beijing, China, ⁴Scientific Data Center, Computer Network Information Center, Chinese Academy of Sciences, Beijing, China, ⁵School of Public Health and Social Work, Queensland University of Technology, Brisbane, Australia, ⁶Oswaldo Cruz Foundation, Brazilian Ministry of Health, Salvador, Bahia, Brazil, ⁷Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

1370

IMMUNOLOGICAL AND CLINICAL OUTCOMES OF HUMAN IMMUNODEFICIENCY VIRUS EXPOSED BUT UNINFECTED INFANTS COMPARED TO UNEXPOSED UNINFECTED INFANTS: A COHORT STUDY IN KISUMU, KENYA**Jessica Ray¹**, David Midem², Fredrick Opinya², Ibrahim Daud², Sidney Ogolla², Maxwel Majiwa Omenda², Edwin Odhiambo², Peter Odada Sumba², Amy Nowacki³, Rosemary Rochford⁴, Arlene Dent¹¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Cleveland Clinic Foundation, Cleveland, OH, United States, ⁴University of Colorado School of Medicine, Denver, CO, United States

1531

STIGMA AMONG BATEY RESIDENTS IN THE DOMINICAN REPUBLIC: IMPLICATIONS FOR MALARIA ELIMINATION**Hunter Keys¹**, Gregory Noland², Madsen Beau De Rochars³, Stephen Blount², Thomas H. Taylor⁴, Manuel Gonzales⁵¹University of Amsterdam, Amsterdam, Netherlands, ²The Carter Center, Atlanta, GA, United States, ³University of Florida, Gainesville, FL, United States, ⁴Taylor Engineering, Atlanta, GA, United States, ⁵Centro Nacional para el Control de Enfermedades Tropicales, Santo Domingo, Dominican Republic

1825

IDENTIFYING RISK FACTORS FOR PERINATAL DEATH AT TORORO DISTRICT HOSPITAL, UGANDA**Martha A. Tesfalul¹**, Paul Nattureba², Nathan Day², Stephanie G. Valderramos¹¹University of California San Francisco, San Francisco, CA, United States, ²Infectious Diseases Research Collaboration, Tororo, Uganda

1901

EFFICACY OF ARTEMISININ-BASED AND QUININE-BASED TREATMENTS FOR UNCOMPLICATED FALCIPARUM MALARIA IN PREGNANCY IN ASIA: A SYSTEMATIC REVIEW AND INDIVIDUAL PATIENT DATA META-ANALYSIS**Makoto Saito¹**, Rashid Mansoor¹, Mary E. Tyrosvoutis², Kalyann E. Kennon¹, Kasia Stepniewska¹, Georgina S. Humphreys¹, Mupawjay Pimanpanarak², Moo Kho Paw², François H. Nosten², Philippe J. Guérin¹, Rose McGready²¹WorldWide Antimalarial Resistance Network, Oxford, United Kingdom, ²Shoklo Malaria Research Unit, Mae Sot, Thailand

1985

SYSTEMIC INFLAMMATION AND NEURODEVELOPMENTAL OUTCOMES IN BANGLADESHI INFANTS GROWING UP IN ADVERSITY**Nona M. Jiang¹**, Fahmida Tofail², Jennie Z. Ma¹, Rashidul Haque², Beth D. Kirkpatrick³, Charles A. Nelson, III⁴, William A. Petri, Jr.¹¹University of Virginia, Charlottesville, VA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³University of Vermont, Burlington, VT, United States, ⁴Boston Children's Hospital, Harvard Medical School, Boston, MA, United States

Young Investigator Award Session B

Convention Center - Room 322/323 (Level 300)

Sunday, November 5, 10 a.m. - 3 p.m.

JUDGE

Vitaliano A. Cama

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

Albert Ko

Yale School of Public Health, New Haven, CT, United States

V. Ann Stewart

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

EMERGENCE OF RECOMBINANT MAYARO VIRUS STRAINS FROM THE AMAZON BASIN, THE DAWN OF A NEW EPIDEMIC?

Carla N. Mavian¹, Brittany D. Rife¹, James Jarad Dollar¹, Eleonora Cella², Massimo Ciccozzi², Mattia C. Prospero¹, J Glenn Morris Jr¹, Ilaria Capua¹, Marco Salemi¹

¹University of Florida, Gainesville, FL, United States, ²Istituto Superiore di Sanità, Rome, Italy

USING MOBILE PHONES AS ACOUSTIC SENSORS FOR HIGH-THROUGHPUT SURVEILLANCE OF MOSQUITO ECOLOGY

Haripriya Mukundarajan, Felix Hol, Erica Castillo, Cooper Newby, Manu Prakash
Stanford University, Stanford, CA, United States

MONITORING AND MEASURING SCHISTOSOMIASIS AT TRANSMISSION SITES IN KENYA: SENTINEL MICE COUPLED WITH GENOTYPING OF RECOVERED ADULT WORMS

Sarah K. Buddenborg¹, Martin W. Mutuku², Ibrahim N. Mwangi², Gerald M. Mkoji², Eric S. Loker¹

¹University of New Mexico, Albuquerque, NM, United States, ²Kenya Medical Research Institute, Nairobi, Kenya

SEASONALITY OF ARBOVIRAL ILLNESS IN RURAL ECUADOR: 2009-2016

Rachel J. Sippy¹, Diego Herrera², David Gaus², Ronald Gangnon¹, Jorge Osorio¹, Jonathan Patz¹

¹University of Wisconsin Madison, Madison, WI, United States, ²Salud y Desarrollo Andino, Pedro Vicente Maldonado, Ecuador

SHORT-TERM CHANGES IN ANAEMIA AND MALARIA PREVALENCE IN CHILDREN UNDER-FIVE YEARS DURING ONE YEAR OF REPEATED CROSS-SECTIONAL SURVEYS IN RURAL MALAWI

Alinune N. Kabaghe¹, Michael G. Chipeta², Dianne J. Terlouw³, Martin P. Grobusch⁴, Michèle van Vugt⁴, Robert S. McCann⁵, Willem Takken⁵, Kamija S. Phiri¹

¹College of Medicine, Blantyre, Malawi, ²University of Lancaster, Lancaster, United Kingdom, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁴Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands, ⁵Wageningen University and Research, Wageningen, Netherlands

TEMPORAL TRENDS OF PARASITEMIA IN UNCOMPLICATED FALCIPARUM INFECTIONS IN KENYA DURING THE PERIOD OF ARTEMISININ COMBINATION THERAPY USE IN 2008 TO 2016

Agnes Cheruiyot, Redemptah Yeda, Charles Okudo, Dennis Juma, Benard Andagalu, Matthew Brown, Hosea Akala
Kenya Medical Research Institute/United States Army Medical Research Directorate-Kenya (USAMRD-K), Walter Reed Project, Kisumu, Kenya

MAPPING THE TRAVEL PATTERNS OF PEOPLE WITH MALARIA IN BANGLADESH

Ipsita Sinha¹, Abdullah Abu Sayeed², Didar Uddin¹, Sazid Ibna Zaman¹, Amy Wesolowski³, M. Abul Faiz⁴, Aniruddha Ghose², M. Ridwanur Rahman⁵, Akramul Islam⁶, M. Jahirul Karim⁷, M. Kamar Rezwan⁸, Abul Khair M. Shamsuzzaman⁹, Sanya Tahmina Jhora⁹, M. M. Aktaruzzaman⁹, Hsiao-Han Chang³, Christopher Jacob¹⁰, Olivo Miotto¹, Dominic Kwiatkowski¹¹, Arjen M. Dondorp¹, Nicholas P. Day¹, M. Amir Hossain², Caroline Buckee³, Richard Maude¹

¹Mahidol Oxford Tropical Research Unit, Bangkok, Thailand, ²Chittagong

Medical College Hospital, Chittagong, Bangladesh, ³Harvard T.H. Chan School of Public Health, Harvard University, Boston, MA, United States, ⁴Dev Care Foundation, Dhaka, Bangladesh, ⁵Shaheed Suhrawardy Medical College, Dhaka, Bangladesh, ⁶BRAC Centre, Dhaka, Bangladesh, ⁷National Malaria Control Programme, Dhaka, Bangladesh, ⁸Vector-Borne Disease Control, World Health Organization, Dhaka, Bangladesh, ⁹Communicable Disease Control, Directorate General of Health Services, Dhaka, Bangladesh, ¹⁰Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ¹¹Wellcome Trust Centre for Human Genetics, University of Oxford, Oxford, United Kingdom

PREVALENCE AND PREDICTORS OF ROTAVIRUS SHEDDING AMONG A COHORT OF POST-VACCINATED INFANTS IN EL ALTO, BOLIVIA 2013 - 2015

Shanon M. Smith¹, Paulina A. Rebolledo², Jessica Prince-Guerra¹, Juan S. Leon¹, Leonarda Acha Alarcon³, Lucia Inchauste³, Rita Revollo⁴, Volga Iniguez²
¹Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, GA, United States, ²Emory School of Medicine, Atlanta, GA, United States, ³Instituto de Biotecnología y Microbiología, Universidad Mayor de San Andrés, La Paz, Plurinational State of Bolivia, ⁴Servicio Departamental de Salud, La Paz, Plurinational State of Bolivia

SUBMICROSCOPIC MALARIA INFECTIONS ARE NOT ASSOCIATED WITH NEGATIVE BIRTH OUTCOMES IN PREGNANT WOMEN FROM COLOMBIA

Kenneth Gavina¹, Sedami Gnidehou², Eliana Arango³, Chloe Hamel-Martineau⁴, Catherine Mitran⁵, Aisha Karidio⁴, Shanna Banman⁵, Olga Agudelo³, Carolina Lopez³, Jaime Carmona-Fonseca³, Ali Salanti⁶, Nicaise Ndam⁷, Michael Hawkes⁸, Amanda Maestre³, Stephanie Yanow⁵

¹Department of Medical Microbiology and Immunology, University of Alberta, Edmonton, AB, Canada, ²Campus Saint-Jean, University of Alberta, Edmonton, AB, Canada, ³Universidad de Antioquia, Medellín, Colombia, ⁴Campus Saint-Jean, University of Alberta, Edmonton, AB, Canada, ⁵School of Public Health, University of Alberta, Edmonton, AB, Canada, ⁶University of Copenhagen, Copenhagen, Denmark, ⁷University of Ghana, Accra, Ghana, ⁸Pediatrics, University of Alberta, Edmonton, AB, Canada

A LONGITUDINAL STUDY OVER THREE YEARS LEADS TO THE IDENTIFICATION OF PLASMODIUM VIVAX INFECTIONS IN DUFFY BLOOD GROUP NEGATIVE CHILDREN IN BANDIAGARA, MALI

Karthigayan Gunalan¹, Amadou Niangaly², Amed Ouattara³, Drissa Coulibaly², Juliana M. Sá¹, Matthew Adams³, Mark A. Travassos³, Jennifer Ferrero³, Matthew B. Laurens³, Abdoulaye K. Koné², Mahamadou A. Thera², Christopher V. Plowe³, Louis H. Miller¹, Ogobara K. Doumbo²

¹Laboratory of Malaria and Vector Research and National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ²Malaria Research and Training Center, International Center for Excellence in Research, University of Sciences, Techniques and Technology of Bamako, Bamako, Mali, ³Division of Malaria Research, Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

A SINGLE NUCLEOTIDE POLYMORPHISM IN AN AP2 TRANSCRIPTION FACTOR ENCODED IN THE MALARIA CAUSING PLASMODIUM BERGHEI ALTERS THE DEVELOPMENT OF HOST IMMUNITY

Munir Akkaya, Patrick W. Sheehan, Abhisheka Bansal, Gunjan Arora, Alvaro Molina-Cruz, Mirna Pena, Takele B. Yazew, Chen-Feng Qi, Jeff Skinner, Louis Miller, Susan K. Pierce
National Institutes of Health, Rockville, MD, United States

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REVEALING BIOTIC DIVERSITY: HOW DO COMPLEX ENVIRONMENTS OFFER NOVEL WAYS TO CONTROL HUMAN SCHISTOSOMIASIS?

Martina R. Laidemitt¹, Martin W. Mutuku², Gerald M. Mkoji², Eric S. Loker¹
¹University of New Mexico, Albuquerque, NM, United States, ²Centre for Biotechnology Research and Development, Kenya Medical Research Institute (KEMRI), Nairobi, Kenya

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THE CONSEQUENCES OF CENSORING NEW INFECTIONS WHEN DERIVING ANTIMALARIAL EFFICACY AGAINST UNCOMPLICATED *P. FALCIPARUM* MALARIA

Prabin Dahal, on behalf of the WWARN Methods Study Group
WorldWide Antimalarial Resistance Network, Oxford, Oxford, United Kingdom

1377

CHARACTERIZATION OF SINDBIS VIRUS CIRCULATING IN KENYAN ECOSYSTEMS

Faith Sigei¹, Fredrick Nindo², Silvanos Mukunzi³, Zipporah Ng'ang'a¹, Rosemary Sang³
¹Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya, ²University of Cape Town, Cape Town, South Africa, ³Kenya Medical Research Institute, Nairobi, Kenya

1520

SPATIAL ASSOCIATIONS OF LEPROSY AND SCHISTOSOMIASIS AND POTENTIAL EFFECTS OF THE CO-ENDEMIC HELMINTH ON THE TRANSMISSION OF LEPROSY IN THE MICROREGION OF GOVERNADOR VALADARES, BRAZIL

Jessica L. Stephens¹, Jose A. Ferreira², Lucia Alves de Oliveira Fraga³, Julie Clennon¹, Uriel Kitron¹, Jessica K. Fairley¹
¹Emory University, Atlanta, GA, United States, ²Faculdade da Saúde e Ecologia Humana, Vespasiano, Brazil, ³Universidade Federal Juiz de Fora - Campus Governador Valadares, Governador Valadares, Brazil

1820

SEASONAL INFLUENCERS FOR ASCARIS TRANSMISSION: WHAT COULD THEY MEAN FOR PUBLIC HEALTH PROGRAMS AND THE 2020 GOALS?

Emma L. Davis, Deirdre Hollingsworth
University of Warwick, Coventry, United Kingdom

1830

QUANTIFICATION OF INFECTION RESERVOIRS IN HUMAN VISCERAL LEISHMANIASIS BY XENODIAGNOSIS

Om Prakash Singh¹, Puja Tiwary¹, Shakti Kumar Singh¹, Anurag Kumar Kushwaha¹, Phillip Lawyer², Edgar Rowton³, Jaya Chakravarty¹, David Sacks⁴, Shyam Sundar¹
¹Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, ²Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ³Division of Entomology, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institute of Health, Bethesda, MD, United States

1918

HELMINTH INDUCED ALTERATIONS IN T CELL, B CELL, DENDRITIC CELL AND MONOCYTE SUBSETS AND THEIR REVERSAL FOLLOWING TREATMENT

Anuradha Rajamanickam¹, Saravanan Munisankar¹, Yukthi Bhootra¹, Dolla Chandrakumar², Thomas B Nutman³, Subash Babu¹
¹NIH-ICER-National Institute for Research in Tuberculosis, Chennai, India, ²National Institute for Research in Tuberculosis, Chennai, India, ³Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland, USA, Chennai, India

Young Investigator Award Session C

Convention Center - Room 325/326 (Level 300)
Sunday, November 5, 10 a.m. - 3 p.m.

JUDGE

David L. Narum
National Institutes of Health, Rockville, MD, United States

Roshanak T. Semnani
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Elia Wojno
Cornell Veterinary School, Ithaca, NY, United States

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TO KILL PARASITE THE NATURAL KILLER WAY: ANTIBODY MEDIATED CELLULAR IMMUNE RESPONSE AGAINST BLOOD STAGE MALARIA

Gunjan Arora¹, Javier Manzella-Lapeira¹, David L. Narum¹, Patrick E. Duffy¹, Louis H. Miller¹, Susan K. Pierce¹, Sanjay A. Desai¹, Geoffrey T. Hart², Eric O. Long¹
¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ²Division of Infectious Disease and International Medicine, Department of Medicine, University of Minnesota, Minneapolis, MN, United States

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THE EARLY PLASMABLAST DERIVED ANTIBODY RESPONSE TO PRIMARY DENGUE VIRUS INFECTION

Usha Nivarthi¹, Bhumi Patel¹, Matt Delacruz¹, Anna Durbin², Steve Whitehead³, Ralph Baric¹, Sean Diehl⁴, Daniel Emerling⁵, Aravinda Desilva¹
¹University of North Carolina, Chapel Hill, NC, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Laboratory of Infectious Diseases, Bethesda, MD, United States, ⁴The University of Vermont, Burlington, VT, United States, ⁵Atreca Inc., San Francisco, CA, United States

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20-HYDROXYECDYSONE (20E) INDUCES PRIMING OF MOSQUITO IMMUNITY AND LIMITS MALARIA PARASITE INFECTION IN *ANOPHELES GAMBIAE*

Rebekah Reynolds, Ryan Smith
Iowa State University, Ames, IA, United States

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IDENTIFYING THE COMPONENTS OF SEVERE MALARIA ACIDOSIS BY METABOLOMICS

Stije J. Leopold
Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

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ANGIOGENESIS AND BLOOD-BRAIN BARRIER DISRUPTION IN RAT MODEL FOR NEUROCYSTICERCOSIS

Rogger Carmen¹, Nancy Chile¹, Danitza Dávila¹, Yudith Cauna¹, Edson Bernal¹, Gino Castillo¹, Manuela Verástegui¹, Robert Gilman², Cysticercosis Working Group in Peru¹
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DETERMINING THE MECHANISM OF ENDSYMBIOSIS BETWEEN FILARIAL NEMATODES AND *WOLBACHIA*

Alexandra Grote¹, Denis Voronin², Swapna Sheshadri³, Dave Curran³, Sara Lustigman², John Parkinson³, Elodie Ghedin¹
¹New York University, New York, NY, United States, ²New York Blood Center, New York, NY, United States, ³University of Toronto, Toronto, ON, Canada

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CHEMICAL DEPLETION OF GRANULOCYTES REVEALS CONTRIBUTIONS OF HEMOCYTES TO ANTI-PLASMODIUM IMMUNITY

Hyeogsun Kwon, Ryan C. Smith
Department of Entomology, Iowa State University, Ames, IA, United States

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THE EFFECT OF CHRONIC HELMINTH INFECTION ON IGE-MEDIATED ANAPHYLAXIS IN SENSITIZED MICE

Laura E. Kropp, Edward Mitre
Uniformed Services University, Bethesda, MD, United States

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Britt Andersen¹, Bruce Rosa¹, Abdoulaye Meité², Christopher King³, Makedonka Mitreva¹, Peter Fischer¹, Gary Weil¹
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²Programme national de la lutte contre la schistosomiase, les geohelminthiases et la filariose lymphatique, Abidjan, Côte D'Ivoire, ³Case Western Reserve University, Cleveland, OH, United States

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TARGETING INHIBITORY RECEPTORS LAG3 AND TIM3 TO ENHANCE ANTI PARASITIC CD4 T CELL RESPONSES IN VISCERAL LEISHMANIASIS

Rajiv Kumar¹, Neetu Singh¹, Bhavana Singh¹, Shashi Bhushan Chauhan¹, Christian Engwerda², Shyam Sundar¹
¹Banaras Hindu University, Varanasi, India, ²QIMR Berghofer Medical Research Institute, Brisbane, Australia

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IMMUNOBIOLOGY OF THE KUPFFER CELL-SPOROZOITE INTERACTION

Rebecca E. Tweedell¹, Henry C. Law², Timothy Hamerly², Zhaoli Sun¹, Rhoel R. Dinglasan²
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IDENTIFYING RIFIN AND STEVOR EPITOPES ASSOCIATED WITH MALARIA EXPOSURE USING PEPTIDE AND PROTEIN MICROARRAYS

Albert E. Zhou¹, Andrea A. Berry¹, Jason A. Bailey¹, Andrew Pike¹, Antoine Dara¹, Sonia Agrawal¹, Amed Ouattara¹, Drissa Coulibaly², Youssouf Tolo², Kristen Lyke¹, Matthew B. Laurens¹, Matthew Adams¹, Shannon Takala Harrison¹, Jozelyn Pablo³, Algis Jasinskas³, Rie Nakajima³, Amadou Niangaly², Bourema Kouriba², Abdoulaye K. Kone², J. Alexandra Rowe⁴, Ogobara K. Doumbo², Mahamadou A. Thera², Myaing M. Nyunt¹, Jigar J. Patel⁵, John C. Tan⁵, Phillip L. Felgner³, Christopher V. Plowe¹, Mark A. Travassos¹
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IDENTIFICATION OF METABOLIC CHOKE POINTS FOR CONTROLLING DENGUE VIRUS TYPE 2 INFECTION IN THE MIDGUT OF Aedes aegypti MOSQUITOES

Nunya Chotiwan¹, Barbara G. Andre¹, Irma Sanchez-Vargas¹, Jeffrey M. Grabowski², Amber Hopf-Jannasch², Erik Gough², Ernesto Nakayasu², Carol D.

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A PVDBP MONOCLONAL ANTIBODY RECOGNIZES A CONSERVED EPITOPE IN PLASMODIUM FALCIPARUM AND P. CHABAUDI ANTIGENS

Catherine J. Mitran¹, Shanna Banman¹, Sedami Gnidehou², Brian Taylor¹, Aja M. Rieger¹, Francis Ntumngia³, John H. Adams³, Michael F. Good⁴, Stephanie K. Yanow¹
¹University of Alberta, Edmonton, AB, Canada, ²Campus Saint-Jean, University of Alberta, Edmonton, AB, Canada, ³University of South Florida, Tampa, FL, United States, ⁴Institute for Glycomics, Griffith University, Gold Coast, Australia

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PHAGOCYtic EFFICIENCY OF BEADS COATED WITH VARIOUS MALARIAL PFEMP1 DOMAINS BY MONOCYTES/MACROPHAGES DEPENDS ON THE DOMAIN IDENTITY AND/OR BINDING AVIDITY TO MONOCYTE SURFACE RECEPTORS

Jordan B. Merritt¹, Justin Gullingsrud², Andrew Oleinikov¹
¹Florida Atlantic University, Boca Raton, FL, United States, ²Seattle Biomedical Research Institute, Seattle, WA, United States

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FIELD TRIAL TO ASSESS LEISHMANIASIS VACCINE EFFECTIVENESS AS A POTENTIAL IMMUNOTHERAPY IN ASYMPTOMATIC DOGS

Angela J. Toepp¹, Mandy Larson¹, Tara Grinnage-Pulley¹, Geneva Wilson¹, Carolyne Bennett¹, Adam Lima¹, Michael Anderson¹, Hailie Fowler¹, Bryan Anderson¹, Molly Parrish¹, Kelsey Willardson¹, Germine Alfonse¹, Jane Jefferies², George Seier³, Javan Esfandiari⁴, Caitlin Cotter⁵, Radhika Gharpure⁵, Christine Petersen¹
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LONGITUDINAL CLINICAL AND MOLECULAR ANALYSIS OF ASYMPTOMATIC MALARIA INFECTION IN MALAWI

Andrea Geri Buchwald¹, Miriam Ismail¹, Courtney Aceto², Alaina Halbach¹, Alick Sixpence³, Mabvuto Chimanya³, Millius Damson³, John D. Sorkin⁴, Karl Seydel⁵, Don Mathanga³, Terrie E. Taylor⁶, Miriam K. Laufer¹
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1994

LINKING EPCR-BINDING PFEMP-1 TO BRAIN SWELLING IN PEDIATRIC CEREBRAL MALARIA

Anne Kessler¹, Selasi Dankwa², Maria Bernabeu², Visopo Harawa³, Samuel Danziger², Fergal Duffy², Sam Kampondeni⁴, Michael Potchen⁵, Nicholas Dambrauskas², Vladimir Vigdorovich², Brian Oliver², Noah Sather², Ian MacCormick³, Wilson Mandala³, Stephen Rogerson⁶, John Aitchison², Terrie Taylor⁴, Sarah Hochman⁷, Wenzhu Mowrey¹, Karl Seydel⁴, Joseph Smith², Kami Kim¹
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Sunday
November 5

Young Investigator Award Session D

Convention Center - Room 328/329 (Level 300)

Sunday, November 5, 10 a.m. - 3 p.m.

JUDGE

Stephen Davies

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Miranda Oakley

Food and Drug Administration, Silver Spring, MD, United States

Prakash Srinivasan

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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THERAPEUTIC POTENTIAL OF INTERFERON- α AND RIBAVIRIN AS COMBINATION THERAPY AGAINST DENGUE VIRUS IN DIFFERENT CELL LINES

Camilly P. Pires de Mello, George L. Drusano, Justin J. Pomeroy, Evelyn J. Franco, Jaime L. Rodriguez, Ashley N. Brown
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VAR CODE: A NEW MOLECULAR EPIDEMIOLOGY TOOL FOR MONITORING *PLASMODIUM FALCIPARUM* IN A HIGH TRANSMISSION AREA OF GHANA, WEST AFRICA

Shazia Ruybal-Pesántez¹, Kathryn E. Tiedje¹, Gerry Tonkin-Hill², Shai Pilosof³, Abraham Oduro⁴, Kwadwo A. Koram⁵, Mercedes Pascual³, Karen P. Day¹
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NOVEL *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN VACCINE CANDIDATE ARE ASSOCIATED STRONG AND PERSISTENT NATURALLY ACQUIRED IGG AND BINDING-INHIBITORY ANTIBODIES RESPONSE, IN LONG-TERM EXPOSURE POPULATION

Camilla V. Pires¹, Jéssica R. Alves¹, Barbara A. Lima¹, Flora S. Kano¹, Francis B. Ntumngia², John H. Adams², Luzia H. Carvalho¹
¹Research Center René Rachou, Fundação Oswaldo Cruz (FIOCRUZ), Belo Horizonte, Brazil, ²Department of Global Health, College of Public Health, University of South Florida, Tampa, FL, United States

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ANTIBIOTIC RESISTANCE IN DENSE, LOW-INCOME NEIGHBORHOODS: THE ROLE OF SANITATION IN GENE DISPERSION

David Berendes¹, David Holcomb², Jackie Knee¹, Trent Sumner¹, Rassul Nala³, Joe Brown¹
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NOT1-G IS A NOVEL MEMBER OF THE CAF1/CCR4/NOT COMPLEX THAT IS ESSENTIAL FOR HOST TO VECTOR MALARIAL TRANSMISSION

Kevin J. Hart, Michael P. Walker, Scott E. Lindner
The Pennsylvania State University, University Park, PA, United States

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TRAFFICKING AND TOPOLOGY IDENTIFICATION OF *PLASMODIUM FALCIPARUM* MAURER'S CLEFT TWO TRANSMEMBRANE PROTEIN

Raghavendra Yadavalli¹, John W. Peterson², Judith A. Drazba², Tobili Yvonne Sam-Yellowe¹

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COMPLEXITY OF INFECTION AND PARASITE RELATEDNESS OF *PLASMODIUM FALCIPARUM* PARASITE POPULATIONS IN PATIENTS ADMINISTERED ARTEMETHER-LUMEFANTRINE (AL) IN KENYA

Lorna J. Chebon¹, Peninnah Muiruri², Dennis Juma³, Hosea M. Akala³, Ben Andagalu³, Edwin Kamau⁴, Matthew Brown³

¹JKUAT/Institute of Tropical Medicine and Infectious Diseases (ITROMID)/Walter Reed Project, Kisumu, Kenya, ²Africa Biosystems Limited, Nairobi-Kenya, Nairobi, Kenya, ³KEMRI/USAMRD-K/Walter Reed Project, Kisumu, Kenya, ⁴Walter Reed National Medical Military Center, Bethesda, MD, United States

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QUANTIFYING *VAR* GENE EXPRESSION IN UNCOMPLICATED MALARIA INFECTIONS USING WHOLE GENOME SEQUENCE DATA

Emily M. Stucke¹, Antoine Dara¹, James Matsumura², Matthew Adams¹, Kara A. Moser², Drissa Coulibaly³, Modibo Daou³, Ahmadou Dembele³, Issa Diarra³, Abdoulaye K. Kone³, Bourema Kouriba³, Matthew B. Laurens¹, Amadou Niangaly³, Karim Traore³, Youssouf Tolo³, Mahamadou A. Thera³, Abdoulaye A. Djimde³, Ogobara K. Doumbo³, Christopher V. Plowe¹, Joana C. Silva², Mark A. Traversos¹

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Kofi D. Kwofie¹, Sato Kai², Akina Hino¹, Sanjoba Chizu², Shimogawara Rieko¹, Irene Ayi³, Daniel Boakye³, Hye-Sook Kim⁴, Mitsuko Ohashi¹, Yoshitsugu Matsumoto², Nobuo Ohta¹

¹Tokyo Medical and Dental University, Tokyo, Japan, ²The University of Tokyo, Tokyo, Japan, ³Noguchi Memorial Institute for Medical Research, Accra, Ghana, ⁴Okayama University, Okayama, Japan

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A MALARIA GENETIC CROSS GENERATED IN A HUMANIZED MOUSE INDICATE MULTI-GENE CONTROL OF RESISTANCES TO ARTEMISININ AND PIPERAQUINE

Sage Z. Davis¹, Lisa Checkley¹, Richard S. Pinapati¹, Ashley Vaughan², Matthew Fishbauger², Nelly Camargo², Marina McDew-White³, Shalini Nair³, François H. Nosten⁴, Stefan Kappe², Ian Cheeseman³, Timothy JC Anderson³, Michael T. Ferdig¹

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TRANSCRIPTIONAL RESPONSE OF *P. VIVAX* PARASITES TO CHLOROQUINE *IN VIVO*

Adam Kim¹, Jean Popovici², Didier Menard², David Serre¹

¹University of Maryland, Baltimore, MD, United States, ²Institut Pasteur in Cambodia, Phnom Penh, Cambodia

1320**COMPARISON OF PCR-METHODS FOR *ONCHOCERCA VOLVULUS* DETECTION IN SKIN BIOPSIES FROM THE TSHOPO PROVINCE, DRC**

Jessica Prince-Guerra¹, Vitaliano A. Cama², Nana Wilson², Josias Likwela³, Nestor Ndakala⁴, J. Muzinga Muzinga⁴, Nicholas Ayebazibwe⁵, Yassa Ndjakani⁶, Naomi Awaca³, D. Mumba⁷, Antoinete Tshetu⁸, Paul Cantey²

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1343**USING SINGLE-CELL TRANSCRIPTOMICS TO ELUCIDATE SEXUAL COMMITMENT AND DIFFERENTIATION IN *PLASMODIUM FALCIPARUM***

Katelyn A. Walzer, Liane Y. Emerson, Danielle Kubicki, David L. Corcoran, Jen-Tsan Ashley Chi

Duke University, Durham, NC, United States

1646**OPTIMIZING APPROACHES TO GENERATE WHOLE-GENOME SEQUENCE FROM NON-LEUKOCYTE DEPLETED *PLASMODIUM FALCIPARUM* CLINICAL SAMPLES**

Zalak Shah¹, Matthew Adams¹, Kara Moser², Miriam K. Laufer¹, Joana C. Silva², Shannon Takala Harrison¹

¹Division 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

1649**WHOLE GENOME SEQUENCE CAPTURE TO GENERATE HIGH QUALITY GENOMIC DATA FOR *PLASMODIUM VIVAX* FROM CLINICAL ISOLATES**

Sonia Agrawal¹, Fang Huang¹, Biraj Shrestha¹, Matthew Adams¹, Sandra Ott², Lisa Sadzewicz², Hui Liu³, David Serre¹, Shannon Takala-Harrison¹, Christopher V. Plowe⁴, Myaing M. Nyunt¹, Joana C. Silva²

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1659**GENE CO-EXPRESSION NETWORK ANALYSIS OF MALARIA PARASITE TRANSCRIPTION REFINES POTENTIAL GENE INTERACTION UNDERLYING ARTEMISININ RESISTANCE**

Katrina A. Button-Simons, Sage Z. Davis, Michael T. Ferdig

Eck Institute for Global Health, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States

1663**ACCURATE ASSEMBLY OF REGIONS OF COMPLEX DIVERSITY IN *P. FALCIPARUM* FROM SHOTGUN GENOME SEQUENCING AND ASSESSMENT OF STRAIN SPECIFIC IMMUNITY--TOWARDS OPTIMAL FORMULATION OF POLYVALENT VACCINES**

Nicholas J. Hathaway¹, James Kazura², Ann M. Moormann¹, John Vulule³, Jonathan J. Juliano¹, Jeffrey A. Bailey¹

¹University of Massachusetts Medical School, Worcester, MA, United States, ²Case Western Reserve University, Cleveland, OH, United States, ³Kenya Medical Research Institute, Busia, Kenya

1880**EVIDENCE OF RNA EDITING IN *BABESIA MICROTI***

Olukemi O. Ifeonu, Ankit Dwivedi, Joana C. Silva

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

Young Investigator Award Session E

Convention Center - Room 331/332 (Level 300)

Sunday, November 5, 10 a.m. - 3 p.m.

JUDGE

Jeff Bailey

University of Massachusetts Medical School, Worcester, MA, United States

Nicole Gottdenker

University of Georgia, Athens, GA, United States

Edward D. Walker

Michigan State University, East Lansing, MI, United States

Rebekah Kading

Colorado State University, Fort Collins, CO, United States

76**EFFECTIVENESS OF A COMBINED HOUSEHOLD-LEVEL PIPED WATER AND SANITATION INTERVENTION IN RURAL ODISHA, INDIA ON HEALTH: A MATCHED COHORT STUDY**

Heather Reese¹, Parimita Routray², Sheela Sinharoy¹, Belen Torondel², Howard Chang¹, Thomas Clasen¹

¹Emory University, Atlanta, GA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom

172**POPULATION GENETICS ANALYSIS OF *PHLEBOTOMUS PAPTASI* SAND FLIES FROM NORTH AFRICA AND MIDDLE EAST REGIONS BASED ON MITOCHONDRIAL CYTOCHROME B HAPLOTYPES**

Catherine M. Flanley¹, Omar Hamarsheh², Gwen Stayback¹, Mariha Wadsworth¹, Douglas A. Shoue¹, Mehmet Karakus³, Mohammad Reza Yaghoobi-Ershadi⁴, Andreas Kruger⁵, Mary Ann McDowell¹

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339**ADAPTIVE GEOSTATISTICAL SAMPLING ENABLES EFFICIENT IDENTIFICATION OF MALARIA HOTSPOTS IN REPEATED CROSS-SECTIONAL SURVEYS IN RURAL MALAWI**

Michael G. Chipeta¹, Alinune N. Kabaghe², Robert S. McCann³, Kamija S. Phiri⁴, Michèle Van Vugt², Willem Takken³, Dianne J. Terlouw⁵

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447**DETERMINATION OF ESBL PREVALENCE AND COMMON MECHANISMS IN ENTEROTOXIGENIC *ESCHERICHIA* ISOLATED FROM DIARRHEA SAMPLES COLLECTED IN NEPAL DURING 2001-2016**

Katie R. Margulieux¹, Apichai Srijan¹, Panida Nobthai¹, Sirigade Ruekit¹, Ladaporn Bodhidatta¹, Prativa Pandey², Oralak Serichantalergs¹, Sanjaya K. Shrestha³, John M. Crawford¹, Brett Swierczewski¹

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758**CYTOGENETIC MECHANISMS OF HYBRID MALE STERILITY IN THE *ANOPHELES GAMBIAE* COMPLEX**

Jiangtao Liang, Michael Hodge, Igor V. Sharakhov
Virginia Tech, Blacksburg, VA, United States

852**A FEMALE REPRODUCTIVE PROTEIN AFFECTS THE INTERACTION BETWEEN *ANOPHELES GAMBIAE* MOSQUITOES AND *PLASMODIUM FALCIPARUM* PARASITES**

Perrine Marcenac¹, W. Robert Shaw¹, Adam South¹, Evdokia Kakani¹, Sara N. Mitchell¹, Abdoulaye Diabate², Rakiswende S. Yerbanga², Thierry Lefevre³, Flaminia Catteruccia¹
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1036**WITHIN-VECTOR PARASITE DIVERSITY: INSIGHTS FROM *PLASMODIUM FALCIPARUM* DEEP WHOLE-GENOME SEQUENCING FROM FIELD-CAUGHT MOSQUITOES IN NORTHERN ZAMBIA**

Giovanna Carpi¹, Julia C. Pringle¹, Mbanga Muleba², Jennifer C. Stevenson¹, Mike Chaponda², Modest Mulenga², William J. Moss³, Douglas E. Norris¹
¹*Johns Hopkins Malaria Research Institute, Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ²*Tropical Diseases Research Center, Ndola, Zambia*, ³*Johns Hopkins Malaria Research Institute, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*

1123**"SLEEP IS LEISURE FOR THE POOR" - UNDERSTANDING PERCEPTIONS, BARRIERS AND MOTIVATORS TO NET CARE AND REPAIR IN SOUTHERN TANZANIA**

Zawadi D. Mageni¹, Angel Dillip¹, Christina Makungu¹, Karen Kramer², George Greer³, Lena M. Lorenz⁴
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1143***YERSINIA PESTIS* SURVIVES AND REPLICATES IN PHAGOCYTTIC AMOEBA: THE CONTINUING SEARCH FOR AN ENVIRONMENTAL PLAGUE RESERVOIR**

David W. Markman¹, Michael F. Antolin¹, Richard A. Bowen¹, William H. Wheat¹, Michael E. Woods², Mary Jackson¹
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1432**MODELING THE SPREAD OF MOSQUITO-BORNE DISEASE IN THE NORTHERN GREAT PLAINS OF THE U.S**

Hiroko Mori, Motomu Ibaraki, Franklin W. Schwartz
The Ohio State University, Columbus, OH, United States

1449**DEVELOPMENT OF MOLECULAR METHODS FOR THE DETECTION AND QUANTIFICATION OF PHLEBOTOMINE SAND FLY LARVAL DNA IN SOIL**

Ioannis A. Giantsis¹, Marie Claude Bon², Alexandra Chaskopoulou¹
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1463**STEROID HORMONE SIGNALING IN *ANOPHELES GAMBIAE* MOSQUITOES AFFECTS THE SPOROGONIC CYCLE OF *PLASMODIUM FALCIPARUM* PARASITES**

Kristine Werling, Maurice Itoe, Douglas Paton, Flaminia Catteruccia
Harvard T.H. Chan School of Public Health, Boston, MA, United States

1595***CHROMOBACTERIUM CSP_P* MEDIATES ITS ANTIMALARIAL ACTIVITY THROUGH SECRETION OF THE HDAC INHIBITOR ROMIDEPSIN**

Raul G. Saraiva¹, Callie Huitt-Roehl², Abhai Tripathi¹, Jürgen Bosch¹, Craig Townsend², George Dimopoulos¹
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1686A**PHARMACOKINETIC AND PHARMACODYNAMIC MODELING FOR THE PREDICTION OF THE MOSQUITOCIDAL EFFECT DURATION OF HIGH-DOSE IVERMECTIN (THE IVERMAL PK/PD MODEL)**

Menno R. Smit¹, Eric O. Ochomo², David Waterhouse¹, Titus K. Kwambai³, Bernard O. Abong'o², Teun Bousema⁴, Nabie M. Bayoh⁵, John E. Gimnig⁵, Aaron M. Samuels⁵, Meghna R. Desai⁵, Penelope A. Phillips-Howard¹, Simon K. Kariuki², Duolao Wang¹, Feiko O. ter Kuile¹, Steve A. Ward¹, Ghaith Aljayyousi¹
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1827**COMPARISON OF KATO-KATZ, MINI-FLOTAC AND MULTI-PARALLEL REAL-TIME POLYMERASE CHAIN REACTION TECHNIQUES FOR DETECTION OF SOIL-TRANSMITTED HELMINTHS IN FEIRA DE SANTANA, BRAZIL**

Ryan H. Avery¹, Simone S. Oliveira², Aristeu V. da Silva², Rojelio A. Mejia³, Marta M. Silva⁴, Rebecca C. Christofferson¹, Laura Rinaldi⁵, John B. Malone¹
¹*Louisiana State University, Baton Rouge, LA, United States*, ²*State University of Feira de Santana, Feira de Santana, Brazil*, ³*Baylor College of Medicine, Houston, TX, United States*, ⁴*Federal University of Bahia, Salvador, Brazil*, ⁵*University of Naples Federico II, Naples, Italy*

1877**WHOLE GENOME DNA SEQUENCE CAPTURE APPROACH REVEALS TREMENDOUS GENETIC DIVERSITY IN INTRACELLULAR PATHOGEN *THEILERIA PARVA***

Nicholas C. Palmateer¹, Kyle Tretina¹, Roger Pelle², Elias Awino², Hanzel T. Gotia¹, Vish Nene², Claudia A. Daubenberger³, Richard P. Bishop², Joana C. Silva¹
¹*University of Maryland School of Medicine, Baltimore, MD, United States*, ²*International Livestock Research Institute, Nairobi, Kenya*, ³*Swiss Tropical and Public Health Institute and University of Basel, Basel, Switzerland*

1983**TIMING AND SPATIAL HETEROGENEITY OF LEPTOSPIROSIS TRANSMISSION IN NORTHEAST THAILAND**

Katharine A. Owers¹, Soawapak Hinjoy², James E. Childs¹, Vincent Herbreteau³, Peter J. Diggle⁴, Albert I. Ko¹
¹*Yale School of Public Health, New Haven, CT, United States*, ²*Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand*, ³*IRD, ESPACE-DEV (IRD, UM2, UR, UAG), Saint-Pierre, France*, ⁴*Division of Medicine, Lancaster University, Lancaster, United Kingdom*

ASTMH Communications Training Workshop

Hilton - Holiday Ballroom 3 (East Building, Second Floor)
Sunday, November 5, 10:30 a.m. – 2:30 p.m.

Now more than ever in the history of the ASTMH, it is important that researchers and clinicians clearly communicate about their work, explain the importance of tropical medicine global health programs and advocate for research funding. To be effective advocates, to stand out from the crowd of important issues you need skills that help you to be persuasive and memorable. How can you prepare for an important presentation or manage challenging media interviews? How do you explain your research to people who might not know anything about your work, and get them invested in the outcome - with only minutes to make your case? This half-day course will teach you how to clearly and effectively communicate about your work. You will learn how to prepare and deliver messages, craft and tell persuasive stories, and how to stay in control what you say in any meeting or interview. Time and again we see the power of these communications skills to change minds, build awareness and grab attention.

This workshop is limited to those who pre-registered for the event; no onsite registration.

10:30 a.m.

OPENING AND INTRODUCTIONS: BEING MEMORABLE

Karen A. Goraeski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL,
United States

ASTMH Executive Director Karen A. Goraeski and Burness trainers will introduce the agenda, goals for the day and start with an exercise about being memorable.

11:15 a.m.

CRAFTING POWERFUL AND PERSUASIVE MESSAGES

Participants will learn how to craft messages to communicate with brevity, clarity and in a way that resonates with reporters and the general public.

11:40 a.m.

INTERACTIVE EXERCISE: DELIVERING AND REFINING YOUR MESSAGE

Participants will have a brief opportunity to refine their messages before testing them out with other participants.

12:05 p.m.

CONTROLLING THE INTERVIEW: BRIDGING

Participants will learn how to prepare for and stay in-control of the interview; specifically, how to "bridge" from difficult or off-topic questions back to their message.

12:30 p.m.

LUNCH

1 p.m.

BREAKOUT GROUPS

Participants will break into smaller groups for mock interviews with feedback and critique from trainers, and other exercises.

2:25 p.m.

CLOSE AND EVALUATIONS

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

Hilton - Johnson AB (East Building, First Floor)
Sunday, November 5, 11 a.m. - Noon

Bonus Event

GET A SHOT. GIVE A SHOT.®

Convention Center - Pratt Street Lobby (Level 300)
Sunday, November 5, Noon - 7 p.m.

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed17 gives attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

Bonus Event

UNDER THE NET

Convention Center - Pratt Street Lobby (Level 300)
Sunday, November 5, Noon - 7 p.m.

Walk in the shoes of 11-year-old Amisa, a refugee living in the Nyarugusu Refugee Camp in Tanzania, through a virtual reality experience (VR) presented by the UN Foundation's Nothing But Nets campaign. Under the Net is the story of Amisa, her mother and six siblings as they struggle to survive each day with no protection from mosquitoes that carry malaria at night. Be sure to stop by the Nothing But Nets exhibit and watch Amisa's story through her eyes – as only VR can present it.

Bonus Event

PROJECT ZERO

Convention Center - Pratt Street Lobby (Level 300)
Sunday, November 5, Noon - 7 p.m.

Don't miss the latest virtual reality (VR) films by *HuffPost's* Project Zero, an ongoing series created to raise awareness around neglected tropical diseases and efforts to fight them. Three 360-degree VR films tell the untold stories of the victims and health workers battling Elephantiasis, River Blindness and Sleeping Sickness in some of the most remote and underdeveloped regions of the world. Explore the challenges of and progress toward eliminating these diseases in an experience provided through the VR format.

Speaker Ready Room

Convention Center - Room 336 (Level 300)
Sunday, November 5, Noon - 6 p.m.

Press Room

Convention Center - Room 330 (Level 300)

Sunday, November 5, Noon - 5:30 p.m.

TropStop- Student/Trainee Lounge

Convention Center - Pratt Street West Lobby Foyer (Level 300)

Sunday, November 5, 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.

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Mentor/Trainee Lunch

Hilton - Peale A (East Building, First Floor)

Sunday, November 5, 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.

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

Hilton - Johnson AB (East Building, First Floor)

Sunday, November 5, Noon - 2 p.m.

A mentoring event for matched ACMCIP trainees to have lunch with a senior/faculty member in a similar interest area. By invitation only.

Elsevier Clinical Research Award

Convention Center - Room 337/338 (Level 300)

Sunday, November 5, Noon - 2:30 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.

ORGANIZER

M. Patricia Joyce

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

JUDGE

David Brett-Major

Naval Medical Research Center, Bethesda, MD, United States

Miguel M. Cabada

Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Cusco, Peru

Latha Rajan

Tulane University, New Orleans, LA, United States

John W. Sanders

Wake Forest University School of Medicine, Winston-Salem, NC, United States

12:05 p.m.

495

EFFECTS OF IMMEDIATE VS. DELAYED IRON THERAPY ON NEUROBEHAVIORAL FUNCTION IN UGANDAN CHILDREN WITH SEVERE MALARIA

Meredith R. Hickson¹, Paul Bangirana², Andrew S. Ssemata², Sarah E. Cusick³, Robert O. Opoka², Maria Kroupina³, Chandy C. John⁴

¹University of Michigan Medical School, Ann Arbor, MI, United States,

²Makerere University College of Health Sciences, Kampala, Uganda, ³University of Minnesota Medical School, Minneapolis, MN, United States, ⁴Indiana University School of Medicine, Indianapolis, IN, United States

12:20 p.m.

1686A

PHARMACOKINETIC AND PHARMACODYNAMIC MODELING FOR THE PREDICTION OF THE MOSQUITOCIDAL EFFECT DURATION OF HIGH-DOSE IVERMECTIN (THE IVERMAL PK/PD MODEL)

Menno R. Smit¹, Eric O. Ochomo², David Waterhouse¹, Titus K. Kwambai³, Bernard O. Abong'o², Teun Bousema⁴, Nabie M. Bayoh⁵, John E. Gimnig⁵, Aaron M. Samuels⁵, Meghna R. Desai⁵, Penelope A. Phillips-Howard¹, Simon K. Kariuki², Duolao Wang¹, Feiko O. ter Kuile¹, Steve A. Ward¹, Ghaith Aljayyousi¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, ³Kenya Ministry of Health, Kisumu, Kenya, ⁴Radboud University Nijmegen Medical Center, Nijmegen, Netherlands, ⁵U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

12:35 p.m.

294

MULTIPLE ANTIGEN RAPID DIAGNOSTIC TESTS FOR THE DIAGNOSIS OF SEVERE MALARIA IN HIGH-TRANSMISSION, RESOURCE-LIMITED SETTINGS

Ross M. Boyce¹, Raquel Reyes¹, Moses Ntaro², Edgar Mulogo², Michael Matte², Mark J. Siedner³

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States,

²Mbarara University of Science and Technology, Mbarara, Uganda,

³Massachusetts General Hospital, Boston, MA, United States

12:50 p.m.

BREAK

1:05 p.m.

781

CHEST ULTRASOUND VERSUS X-RAY FOR PULMONARY TUBERCULOSIS IN SOUTH AFRICAN CHILDREN

Charlotte C. Heuvelings¹, Sabine Bélar¹, Savvas Andronikou², Halvani Moodley³, Norme Jamieson-Luff⁴, Martin P. Grobusch¹, Heather J. Zar⁴

¹Academic Medical Center/University of Amsterdam, Amsterdam, Netherlands,

²Bristol Royal Hospital for Children and University of Bristol, Bristol, United Kingdom,

³University of Witwatersrand, Johannesburg, South Africa, ⁴Red Cross War Memorial Children's Hospital, Cape Town, South Africa

1:20 p.m.

605

PERFORMANCE OF LOOP-MEDIATED ISOTHERMAL AMPLIFICATION FOR THE IDENTIFICATION OF SUBMICROSCOPIC *P. FALCIPARUM* INFECTION IN UGANDA

Shereen Katrak¹, Maxwell Murphy¹, Patience Nayebaré², John Rek², Mary Smith¹, Emmanuel Arinaitwe², Joaniter Nankabirwa², Moses Kamya², Grant Dorsey¹, Phil Rosenthal¹, Bryan Greenhouse¹

¹University of California San Francisco, San Francisco, CA, United States,

²Infectious Diseases Research Collaboration, Kampala, Uganda

1:35 p.m.

270

SUBPATENT *PLASMODIUM FALCIPARUM* INFECTIONS AFTER TREATMENT OF UNCOMPLICATED *FALCIPARUM* MALARIA WITH DIHYDROARTEMISININ-PIPERAQUINE AND ARTEMETHER-LUMEFANTRINE IN WESTERN INDONESIA

Inke N. Lubis¹, Hendri Wijaya², Munar Lubis², Chairuddin P. Lubis², Khalid B. Beshir¹, Colin J. Sutherland¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom,

²University of North Sumatera, Medan, Indonesia

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

Hilton - Johnson AB (East Building, First Floor)

Sunday, November 5, 2 p.m. - 3:30 p.m.

Point of Entry: First-Time Attendee Orientation

Convention Center - Room 339/340 (Level 300)

Sunday, November 5, 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

Convention Center - Room 318/319 (Level 300)

Sunday, November 5, 3 p.m. - 4 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Pratt Street Ale House

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

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

Hilton - Paca (West Building, Third Floor)

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

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

Pratt Street Ale House

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

ASTMH Committee on Global Health (ACGH) Council Meeting

Hilton - Chase (West Building, Third Floor)

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

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

Hilton - Stone (West Building, Third Floor)

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

Student Reception

Hilton - Key Ballroom 1/2 (West Building, Second Floor)

Sunday, November 5, 4 p.m. - 5 p.m.

Plenary Session 1

Plenary Session I: Keynote Address and Awards Program

Convention Center - Ballroom (Level 400)

Sunday, November 5, 5:30 p.m. - 7 p.m.

CHAIR

Patricia F. Walker

University of Minnesota and HealthPartners Travel and Tropical Medicine Center, St. Paul, MN, United States

Daniel G. Bausch

Public Health Rapid Support Team-UK PHRST Public Health England/London School of Hygiene & Tropical Medicine, London, United Kingdom

5:30 p.m.

WELCOMING REMARKS

Daniel G. Bausch

Public Health Rapid Support Team-UK PHRST Public Health England/London School of Hygiene & Tropical Medicine, London, United Kingdom

5:45 p.m.

KEYNOTE ADDRESS: RECONSIDERING THE WEST AFRICAN EBOLA EPIDEMIC: A PHYSICIAN-ANTHROPOLOGIST'S VIEW



Paul Farmer, MD, PhD

Co-Founder and Chief Strategist of Partners In Health (PIH)

Kolokotronis University Professor and Chair,

Department of Global Health and Social

Medicine, Harvard Medical School

Chief, Division of Global Health Equity,

Brigham and Women's Hospital

Boston, MA, United States

United Nations Special Adviser to the Secretary-General on

Community-Based Medicine and Lessons from Haiti

Medical anthropologist and physician Paul Farmer has dedicated his life to improving healthcare for the world's poorest people. He is Co-Founder and Chief Strategist of Partners In Health (PIH), an international non-profit organization that, since 1987, has provided direct healthcare services and undertaken research and advocacy activities on behalf of those who are sick and living in poverty. Dr. Farmer and his colleagues in the U.S. and abroad have pioneered novel community-based treatment strategies that demonstrate the delivery of high-quality healthcare in resource-poor settings. Dr. Farmer holds an MD and PhD from Harvard University, where he is the Kolokotronis University Professor and the Chair of the Department of Global Health and Social Medicine at Harvard Medical School; he is also Chief of the Division of Global Health Equity at Brigham and Women's Hospital, Boston. Additionally, Dr. Farmer serves as the United Nations Special Adviser to the Secretary-General on Community Based Medicine and Lessons from Haiti. Dr. Farmer has written extensively on health, human rights, and the consequences of social inequality. He is the recipient of numerous honors, including the Margaret

Mead Award from the American Anthropological Association, the Outstanding International Physician (Nathan Davis) Award from the American Medical Association, a John D. and Catherine T. MacArthur Foundation Fellowship, and, with his PIH colleagues, the Hilton Humanitarian Prize. He is a member of the Institute of Medicine of the National Academy of Sciences and of the American Academy of Arts and Sciences.

6:15 p.m.

AWARDS PROGRAM

Presiding Officer: Patricia F. Walker
University of Minnesota and HealthPartners Travel and Tropical Medicine Center, St. Paul, MN, United States

- Recognition of ASTMH/BMGF Annual Meeting Travel Awards
- Recognition of Young Investigator Awards
- Recognition of Elsevier Clinical Research Award
- Recognition of Burroughs Wellcome Fund - ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

WILLIAM TRAGER AWARD FOR BASIC PARASITOLOGY (ACMCIP)

AWARD FOR ADVANCED TRAINING (ACMCIP)

FUTURE LEADERS FELLOWSHIP IN INTERNATIONAL MEDICAL ENTOMOLOGY (ACME)

BREAKTHROUGHS IN MEDICAL ENTOMOLOGY AWARD (ACME)

HARRY HOOGSTRAAL MEDAL (ACME)

RECOGNITION OF FELLOWS OF ASTMH (FASTMH)

HONORARY INTERNATIONAL FELLOWS OF ASTMH

Peter Kremsner
Institute of Tropical Medicine, Tubingen, Germany

James McCarthy
Queensland Institute for Medical Research, Queensland, Australia

Jean Jacques Muyembe
Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo

Jeffrey Shaw
Sao Paulo University, Brasilia, Brazil

Shyam Sundar
Banara Hindu University, Varansai, India

ALAN J. MAGILL FELLOWSHIP

Pedro Aide
Centro de Investigacao em Saude de Manhica, Maputo, Mozambique

COMMUNICATIONS AWARD

William Brangham, Jon Cohen and Jason Kane
PBS NewsHour

BAILEY K. ASHFORD MEDAL

Margaret Kosek
Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

DONALD MACKAY MEDAL

Patrick Lammie
Task Force for Global Health, Atlanta, GA, United States

WALTER REED MEDAL

Scott Halstead
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

CLARA SOUTHMAYD LUDLOW MEDAL

Ruth Nussenzweig
New York University, New York, NY, United States

Opening Reception

Convention Center - Swing Hall (Level 100)
Sunday, November 5, 7 p.m. - 9:30 p.m.

Sponsored in part by Bayer CONTRIBUTOR

Exhibit Hall Open

Convention Center - Swing Hall (Level 100)
Sunday, November 5, 7 p.m. - 9:30 p.m.

Monday, November 6

Registration

Convention Center - Pratt Street West Lobby (Level 300)
Monday, November 6, 7 a.m. - 5 p.m.

Speaker Ready Room

Convention Center - Room 336 (Level 300)
Monday, November 6, 7 a.m. - 5 p.m.

TropStop- Student/Trainee Lounge

Convention Center - Pratt Street West Lobby Foyer (Level 300)
Monday, November 6, 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 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.

Meeting Sign-Up Room

Hilton - Stone Room and Chase Room (West Building, Third Floor)
Monday, November 6, 7 a.m. - 10 p.m.

ASTMH Diploma Course Directors Meeting

Hilton - Peale B (East Building, First Floor)
Monday, November 6, 7 a.m. - 8 a.m.

ASTMH Travel Awards Meeting

Hilton - Key Ballroom 1 (West Building, Second Floor)
Monday, November 6, 7 a.m. - 8 a.m.

Clinical Standards and Treatment Guidelines Committee Meeting

Hilton - Peale A (East Building, First Floor)
Monday, November 6, 7 a.m. - 8 a.m.

Clinical Tropical and Travel Medicine Education Program Committee Meeting

Hilton - Johnson A (East Building, First Floor)
Monday, November 6, 7 a.m. - 8 a.m.

Press Room

Convention Center - Room 330 (Level 300)
Monday, November 6, 7:45 a.m. - 5 p.m.

Symposium 2

New Tools for Malaria Vector Control

Convention Center - Ballroom I (Level 400)
Monday, November 6, 8 a.m. - 9:45 a.m.

Malaria vector control has been a key component in reducing the number of under-5-year-old deaths in Africa. However, insecticide resistance and the lack of new insecticides and new vector control (VC) tools have shrunk the arsenal of effective options. Currently, malaria vector control programs in Africa rely on two interventions: pyrethroid-treated long-lasting insecticide nets (LLINs) and indoor residual spraying (IRS) with an organophosphate. Fortunately, we are on the cusp of ushering in a new line-up of VC tools. This symposium will discuss some of the most promising and near-term tools in vector control, which will result in a continued shrinking of the malaria burden in Africa. New IRS formulations are critically needed given the predominant reliance in sub-Saharan African programs on just one effective class of insecticide - organophosphates. Two manufacturers have products undergoing WHO review that utilize clothianidin, a neonicotinoid, which draws on an entirely new mode of chemistry to kill mosquitoes. Use of this neonicotinoid will allow countries to rotate insecticides as recommended by the WHO's Global Plan for Insecticide Resistance Management. It is anticipated that the first clothianidin IRS formulation will be approved and available for VC programs in the near future. The high level of resistance to pyrethroids is risking the proven effectiveness of LLINs. Currently, nearly all LLINs used in Africa are impregnated with one type of pyrethroid. However, new 'combination' LLINs have been developed and are undergoing WHO review. These LLINs combine a new active ingredient insecticide with an existing pyrethroid. Results from experimental hut trials are impressive with high-levels of mortality against pyrethroid resistant *Anopheles*. The first combination LLIN, which combines chlorfenapyr and alpha-cypermethrin, is expected to be approved and available for VC programs in 2018. The successful deployment of LLINs and IRS in Africa is changing selection pressure on mosquito vectors favoring outdoor biting and resting vectors. Currently, there is no effective VC tool for outdoor transmission. However, a new tool, Attractive Toxic Sugar Baits (ATSBs), is showing great promise. By combining a concentrated sugar-based food source, an olfaction stimulant and an oral insecticide, ATSBs lure and kill mosquitoes at a base station.

Several trials of ATSBs as an outdoor mosquito control tool have been very successful. Together, new IRS formulations, new formulation LLINs and new tools like ATSBs will enable vector control program managers to mount more effective campaigns and implement insecticide resistance management practices that will preserve the effective shelf life of all VC insecticides.

CHAIR

Nick Hamon
Innovative Vector Control Consortium, Liverpool, United Kingdom
Sarah Rees
Innovative Vector Control Consortium, Liverpool, United Kingdom

8 a.m.

THE RENAISSANCE OF THE DEVELOPMENT PIPELINE FOR VECTOR CONTROL TOOLS: PREPARING FOR DEPLOYMENT

Sarah Rees
Innovative Vector Control Consortium, Liverpool, United Kingdom

8:20 a.m.

CLOTHIANIDIN – A NEW MODE OF ACTION CHEMISTRY FOR IRS TO CONTROL RESISTANT MOSQUITOES AND PROMOTE INSECTICIDE RESISTANCE MANAGEMENT AS RECOMMENDED BY THE GLOBAL PROGRAM FOR INSECTICIDE RESISTANCE MANAGEMENT (GPIRM)

John Lucas
Sumitomo Chemical Company, Tokyo, Japan

8:40 a.m.

DUAL-ACTING LLINs: SECOND GENERATION LLINs TO CONTROL RESISTANT MOSQUITOES

Suzanne Stutz
BASF, Limburgerhof, Germany

9 a.m.

ATTRACTIVE TOXIC SUGAR BAITS – A NEW VC TOOL TO ADDRESS OUTDOOR BITING

Amir Galili
Westham Co., Tel Aviv, Israel

Symposium 3

Accelerating Malaria Elimination through Strengthened Private Sector Surveillance: Taking Forward Lessons Learned in Africa and the Greater Mekong Sub-Region

Convention Center - Ballroom II (Level 400)
Monday, November 6, 8 a.m. - 9:45 a.m.

The private sector is often the first point of care for patients seeking fever treatment in malaria endemic countries in Africa and elimination-targeted countries in the Greater Mekong Sub-region (GMS). Yet, surveillance efforts have been under-resourced, de-prioritized and ultimately neglected compared to the public sector. As a result, national systems fail to capture complete caseload data to inform strategies for control and elimination. UCSF establishes the importance of engaging the private sector as part of malaria control and elimination efforts, which is underscored by results from CHAI's on-the-ground partnerships with national programs in Africa. Experience will be shared from Tanzania's recent investment in strengthening reporting from the retail private sector and the challenge of setting priorities in the face of diminishing resources. An example

of Tanzania's mobile reporting system will demonstrate how a national program prioritized this investment to generate insights at multiple levels of the health system and how the program is striving for sustainability. In the GMS, ambitious elimination goals have been set for 2025-30. PSI is partnering with National Malaria Control Programs (NMCPs) to scale up private sector surveillance, integrate data with national systems, and harvest mobile technology to accelerate elimination in a region that is experiencing exponential growth of mobile coverage. The Lao PDR NMCP will discuss the successes and challenges of implementing DHIS2, the nation's first web-based malaria information system, and how it is leveraging the system for mobile case reporting from the private sector. PSI will share candid lessons learned about the importance of user-centered design in implementing technology solutions, the challenges of evolving open source software to become fit for malaria elimination, and the revelatory effects of democratizing data. Case studies will demonstrate how national programs have leveraged unprecedented access to private sector surveillance data in DHIS2 to drive operational and strategic decision-making. This symposium brings together national malaria program leaders and partners to reflect on what it takes to establish effective surveillance systems for the private sector and addresses the challenges of sustaining these efforts with nascent capacity and limited resources. The symposium calls the global community of practice to action, by engaging in collaborative partnerships to co-create systems that will drive data-driven decision-making, and accelerate malaria elimination.

CHAIR

Desmond Chavasse
Population Services International, Nairobi, Kenya

Rebecca Goldstein
CHAI, Boston, MA, United States

8 a.m. **IMPORTANCE AND CHALLENGES OF PRIVATE SECTOR SURVEILLANCE IN MALARIA ENDEMIC AND ELIMINATION-TARGETED COUNTRIES**

Anton Avanceña
University of California San Francisco, San Francisco, CA, United States

8:20 a.m. **USING SURVEILLANCE DATA TO INFORM POLICY DECISIONS AND MAKING THE CASE FOR CONTINUED INVESTMENT IN PRIVATE SECTOR SURVEILLANCE TO ADVANCE ELIMINATION**

Sigsbert Mkude
Tanzania National Malaria Program, Dar Es Salaam, United Republic of Tanzania

8:40 a.m. **GUIDING MALARIA SURVEILLANCE SYSTEM TRANSITIONING THROUGH EFFECTIVE MONITORING AND EVALUATION: LAO PDR'S ROLLOUT OF DHIS2 FOR PASSIVE CASE DETECTION**

Bouasy Hongvanhthong
Ministry of Health, Vientiane, Lao People's Democratic Republic

9 a.m. **ADAPTATION AND STANDARDIZATION OF DHIS2 AS A REGIONAL SURVEILLANCE ECOSYSTEM: A DATA-TO-FINGERTIPS APPROACH TO SHEDDING LIGHT ON THE PRIVATE SECTOR 'BLACK HOLE'**

Rebecca Potter
Population Services International, Vientiane, Lao People's Democratic Republic

Scientific Session 4

Chikungunya and Other Alphaviruses

Convention Center - Ballroom III (Level 400)
Monday, November 6, 8 a.m. - 9:45 a.m.

CHAIR

Nathaniel M. Byers
Centers for Disease Control and Prevention, Fort Collins, CO, United States

A. Desiree LaBeaud
Stanford University, Stanford, CA, United States

8 a.m.

1

CHIKUNGUNYA INFECTION DURING GESTATION: IMPACT ON PREGNANCY AND NEONATAL OUTCOMES

Priyanka Suresh¹, Amy Krystosik¹, Nikita Cudjoe², Toni Murray², Rashida Isaac², George Mitchell³, Trevor Noël⁴, Barbara Landon⁵, Randall Waechter⁵, **A. Desiree LaBeaud**¹

¹Stanford University, Department of Pediatrics, Stanford, CA, United States, ²Windward Islands Research and Education Foundation (WINDREF), St. George's, Grenada, ³Ministry of Health, St. George's, Grenada, ⁴Windward Islands Research and Education Foundation (WINDREF) @ St. George's University, St. George's, Grenada, ⁵St. George's University, School of Medicine, Department of Bioethics, St. George's, Grenada

8:15 a.m.

2

SAFETY AND IMMUNOGENICITY OF A LIVE RECOMBINANT MEASLES VECTOR BASED CHIKUNGUNYA VACCINE IN HEALTHY ADULTS: A RANDOMIZED, PLACEBO CONTROLLED PHASE 2 STUDY

Sabrina Schrauf, Katrin Ramsauer, Matthias Müllner, Andrea Pfeiffer, Alexander Kort, **Erich Tauber**
Themis Bioscience GmbH, Vienna, Austria

8:30 a.m.

3

AN INDEX CLUSTER STUDY OF CHIKUNGUNYA IN NICARAGUA WITH SPATIAL AND RISK FACTOR ANALYSES

Fausto Bustos¹, Guillermina Kuan², Nery Sanchez³, Sergio Ojeda³, Brenda López³, Raquel Burger-Calderon¹, Lionel Gresh³, Aubree Gordon⁴, Angel Balmaseda⁵, Angel Balmaseda⁵, Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Health Center Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua, ³Sustainable Sciences Institute, Managua, Nicaragua, ⁴Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ⁵Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

8:45 a.m.

4

IN THE SEARCH OF THE HIDDEN PATH: THE SOURCE AND SPREAD OF CHIKUNGUNYA AND ZIKA VIRUSES

Adriano de Bernardi Schneider, Lambodhar Damodaran, Zachary Witter, Daniel Janies
University of North Carolina at Charlotte, Charlotte, NC, United States

9 a.m.

5

ADAPTED LONGITUDINAL MOSQUITO SALIVA COLLECTION METHOD FOR DETERMINING ARBOVIRUS VECTOR COMPETENCE INCREASES BIOSAFETY AND CAPACITY

Nathaniel M. Byers, Jeremy P. Ledermann, Ann M. Powers
Centers for Disease Control and Prevention, Fort Collins, CO, United States

9:15 a.m.

6

EMERGENCE OF RECOMBINANT MAYARO VIRUS STRAINS FROM THE AMAZON BASIN, THE DAWN OF A NEW EPIDEMIC?

Carla N. Mavian¹, Brittany D. Rife¹, James Jarad Dollar¹, Eleonora Cella², Massimo Ciccozzi², Mattia C. Prosperi¹, J Glenn Morris Jr¹, Ilaria Capua¹, Marco Salemi¹

¹University of Florida, Gainesville, FL, United States, ²Istituto Superiore di Sanità, Rome, Italy

9:30 a.m.

7

RE-EMERGING OF MAYARO VIRUS IN AREAS WITH CIRCULATION OF DENGUE VIRUS IN THE PERUVIAN AMAZON

Marco Coaguila, Maria Garcia, Maribel Figueroa, Nancy Merino, Adolfo Marcelo, Miguel Cobos, Cesar Cabezas
National Institute of Health, Lima, Peru

Scientific Session 5

Malaria: Clinical and Pre-Clinical Assessment of Antimalarials

Convention Center - Ballroom IV (Level 400)

Monday, November 6, 8 a.m. - 9:45 a.m.

CHAIR

Selina Bopp
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Gavin C. Koh
GlaxoSmithKline, Uxbridge, United Kingdom

8 a.m.

8

NON-INFERIORITY COMPARISON OF TAFENOQUINE SIX-MONTH RELAPSE-FREE EFFICACY VERSUS PRIMAQUINE IN PLASMODIUM VIVAX INFECTION: AN INDIVIDUAL PATIENT DATA META-ANALYSIS

Lindsay K. Kendall¹, Khadeeja Mohamed², John J. Breton³, **Gavin C. Koh**², Justin A. Green²

¹GlaxoSmithKline, Stevenage, United Kingdom, ²GlaxoSmithKline, Uxbridge, United Kingdom, ³GlaxoSmithKline, Philadelphia, PA, United States

8:15 a.m.

9

CONFIRMATION OF THE BLOOD STAGE SCHIZONTICIDAL ACTIVITY OF TAFENOQUINE IN A RANDOMIZED, DOUBLE-BLINDED, PLACEBO-CONTROLLED PLASMODIUM FALCIPARUM INDUCED BLOOD STAGE MALARIA CHALLENGE STUDY

James S. McCarthy¹, Bryan L. Smith², Lisa T. Read³, Geoffrey Dow²
¹QIMR Berghofer Medical Research Institute, Herston, Australia, ²60 Degrees Pharmaceuticals LLC, Washington, DC, United States, ³USAMMDA, Fort Detrick, MD, United States

8:30 a.m.

10

BUZZOFF - A PHASE 1A, FIRST-IN-HUMAN STUDY OF (+)-SJ000557733 (SJ733), AN ORAL, NOVEL INHIBITOR OF PLASMODIUM FALCIPARUM PLASMA MEMBRANE PROTEIN PFATP4

Aditya H. Gaur¹, John C. Panetta¹, Ronald Dallas¹, Li Tang¹, Tracy B. Stewart¹, Kristen C. Branum¹, Burgess B. Freeman, III¹, Nehali D. Patel¹, Elizabeth John², Stephan Chalon³, Shelley Ost⁴, Ryan N. Heine¹, Julie L. Richardson¹, Robbin Christensen¹, Patricia M. Flynn¹, Yvonne Van Gessel⁵, Branko Mitasev⁶, Jörg J. Möhrle³, Fabian Gusovsky⁶, Lidiya Bebrevska³, James McCarthy⁶, R. Kip Guy⁷
¹St. Jude Children's Research Hospital, Memphis, TN, United States, ²EJOHN Consulting, Richland, WA, United States, ³Medicines for Malaria Venture, Geneva, Switzerland, ⁴University of Tennessee, Memphis, TN, United States, ⁵Eisai Inc., Andover, MA, United States, ⁶QIMR Berghofer Medical Research Institute, Herston, Australia, ⁷University of Kentucky College of Pharmacy, Lexington, KY, United States

8:45 a.m.

11

PROPHYLACTIC ACTIVITY OF DSM265 AGAINST PRE-ERYTHROCYTIC PLASMODIUM FALCIPARUM CONTROLLED HUMAN MALARIA INFECTION BY MOSQUITO BITES AND DIRECT VENOUS INJECTION

Sean C. Murphy¹, Elizabeth Duke², Kelly J. Shipman², Ryan L. Jensen², Youyi Fong², Sue Ferguson², Holly E. Janes³, Kevin Gillespie³, Annette M. Seilie¹, Amelia E. Hanron¹, Laurie Rinn², Matthew Fishbaugher⁴, Tracie VonGoedert⁴, Emma Fritzen⁴, Stefan H. Kappe⁴, Ming Chang¹, Jason C. Sousa⁵, Sean R. Marcisin⁵, Thomas Rueckle⁶, Stephan Chalon⁶, Stephan Duparc⁶, Nicola Kerr⁶, Jorg J. Mohrle⁶, Nicole Andenmatten⁶, James G. Kublin²

¹University of Washington Medical Center, Seattle, WA, United States, ²Seattle Malaria Clinical Trials Center, Seattle, WA, United States, ³Vaccine and Infectious Disease Division, Fred Hutch Cancer Research Center, Seattle, WA, United States, ⁴Center for Infectious Disease Research, Seattle, WA, United States, ⁵Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁶Medicines for Malaria Venture, Geneva, Switzerland

9 a.m.

12

A PHASE 1 EVALUATION OF THE PHARMACOKINETIC-PHARMACODYNAMIC INTERACTION OF THE ANTIMALARIAL AGENTS KAF156 AND PIPERAQUINE

F. Joel Leong¹, Jay Prakash Jain², Elie Feng³, Budhaditya Goswami², Daniel S. Stein⁴, **Cornelis Winnips**⁵

¹Novartis Institute for Tropical Diseases, Singapore, Singapore, ²Novartis Healthcare Private Limited, Hyderabad, India, ³Novartis Institutes for BioMedical Research, Shanghai, China, ⁴Novartis Pharmaceuticals Corporation, East Hanover, NJ, United States, ⁵Novartis Pharma AG, Basel, Swaziland

9:15 a.m.

13

A RANDOMIZED TRIAL OF THE SAFETY AND EFFICACY OF LOW DOSE PRIMAQUINE IN THE TREATMENT OF ADULT PATIENTS WITH PLASMODIUM FALCIPARUM MALARIA IN SENEGAL

Roger C. Tine¹, Khadime Sylla¹, Babacar T. Faye¹, Fatou B. Fall², Doudou Sow¹, Magatte Ndiaye¹, Jean L. Ndiaye¹, Babacar Faye¹, Oumar Gaye¹, Paul Milligan³

¹Service de Parasitologie, Faculté de Médecine de Dakar, Dakar, Senegal, ²National Malaria Control Programme, Ministry of Health Senegal, Dakar, Senegal, ³Faculty of Epidemiology and Public Health, London School of Hygiene & Tropical Medicine, London, United Kingdom

Monday
November 6

THE PLASMODIAL ACYL CO-A SYNTHETASE 10 AND 11 ARE INVOLVED IN DRUG RESISTANCE TO TWO DISTINCT ANTIMALARIAL COMPOUNDS

Selina Bopp¹, Pamela A. Magistrado¹, Victoria C. Corey², Maria G. Gomez-Lorenzo³, Virginia Franco³, Allison Demas¹, Amanda K. Lukens⁴, Francisco-Javier Gamo³, Elizabeth A. Winzeler², Dyann F. Wirth¹

¹Harvard T.H. Chan School of Public Health, Boston, MA, United States,

²University of California San Diego, San Diego, CA, United States, ³Malaria DPU, GlaxoSmithKline, Tres Cantos, Spain, ⁴The Broad Institute, Cambridge, MA, United States

Symposium 6

Estimating the Global Burden of Group B *Streptococcus* in Pregnant Women, Stillbirths and Children to Inform Vaccine Development

Convention Center - Room 318/319/320 (Level 300)

Monday, November 6, 8 a.m. - 9:45 a.m.

The London School of Hygiene & Tropical Medicine, commissioned by the Bill & Melinda Gates Foundation, is working with a group of world experts, and a global network of collaborators, to estimate the burden of *Streptococcus agalactiae*, or Group B *Streptococcus* (GBS) on maternal and infant health. This work is critical to inform GBS vaccine development, as recognized by the World Health Organization, which convened the first expert meeting on GBS vaccines in April 2016 and are part of the advisory group for these estimates. Group B *Streptococcus* (GBS) is recognized as the leading cause of invasive early onset neonatal disease in the United States. However, 98% of the world's neonatal deaths (2.7 million) and stillbirths (2.6 million) occur in low and middle-income countries, where there has been very limited focus on GBS disease. In addition, GBS is associated with many other adverse newborn and maternal clinical syndromes, yet the burden of GBS in terms of stillbirth, preterm birth, pregnancy associated disease, and neonatal encephalopathy is little understood, worldwide. Intrapartum antibiotic prophylaxis (IAP) has been shown to reduce neonatal GBS disease in high-income countries, such as the USA, but this strategy would be challenging in resource-poor settings, and there is no evidence that it would reduce late onset neonatal disease (days 7-27) or GBS-associated stillbirth. New conjugate vaccines in clinical trials will offer an opportunity for maternal vaccination to reduce GBS disease, and if a maternal GBS vaccine is considered cost effective, the impact on deaths, acute morbidity and long-term disability could be considerable globally. This symposium will introduce the rationale and methods for estimating the burden of Group B *Streptococcus* to include both maternal and perinatal outcomes, infant disease, death, and disability and present the most comprehensive datasets so far regarding GBS in terms of the global prevalence of maternal Group B *Streptococcus* colonization, and consequent risk of infant disease. The session will provide the first estimates of the burden of Group B Streptococcal disease worldwide in pregnant women, stillbirths and children and describe the status of maternal GBS vaccination and what the estimates mean for global health policy and priorities.

CHAIR

Johan Vekemans

World Health Organization, Geneva, Switzerland

Carol J. Baker

Baylor College of Medicine, Houston, TX, United States

8 a.m.

RATIONALE AND METHODS FOR ESTIMATING THE BURDEN OF GROUP B *STREPTOCOCCUS* WORLDWIDE TO INCLUDE BOTH MATERNAL AND PERINATAL OUTCOMES, INFANT DISEASE, DEATH AND DISABILITY

Joy E. Lawn

London School of Hygiene & Tropical Medicine, London, United Kingdom

8:20 a.m.

MATERNAL GROUP B *STREPTOCOCCUS* COLONIZATION PREVALENCE, AND CONSEQUENT RISK OF INFANT DISEASE WORLDWIDE

Neal Russell

Doctors without Borders, London, United Kingdom

8:35 a.m.

ESTIMATES OF THE BURDEN OF GROUP B *STREPTOCOCCUS* WORLDWIDE IN PREGNANT WOMEN, STILLBIRTHS AND CHILDREN

Anna C. Seale

London School of Hygiene & Tropical Medicine, London, United States

8:55 a.m.

MATERNAL GROUP B *STREPTOCOCCUS* VACCINATION: PROGRESS AND PRIORITIES

Ajoke Sobanjo-ter-Meulen

Bill & Melinda Gates Foundation, Seattle, WA, United States

9:05 a.m.

PANEL DISCUSSION

PANELIST

Craig Rubens

Global Alliance to Prevent Prematurity and Stillbirth, Seattle, WA, United States

Symposium 7

ASTMH Committee on Global Health (ACGH) Symposium I: U.S. Future Role in Global Health and Annual Business Meeting

Convention Center - Room 321/322/323 (Level 300)

Monday, November 6, 8 a.m. - 9:45 a.m.

The United States is a recognized leader in global health. Working with international partners, the U.S. has established and molded institutions such as the President's Emergency Plan for AIDS Relief (PEPFAR) and the Global Fund to Fight AIDS, Tuberculosis and Malaria. With limited resources and shifting political support, the case for continued commitment must be made. The National Academies of Sciences, Engineering and Medicine convened an ad hoc committee to identify global health priorities and make recommendations to the U.S. government and other stakeholders to address emerging challenges and ways to maintain the status of the U.S. as a world leader in global health. The resulting report released in May 2017, entitled "Global Health and the Future Role of the United States," identified four priority areas to achieve global health security, maintain a sustained response to the continuous threats of communicable diseases, save and improve

the lives of women and children, and promote cardiovascular health and prevent cancer. To maximize the returns on investments, the report also recommended catalyzing innovation, using more flexible financing mechanisms and maintaining the U.S. status and influence as a world leader in global health. Members of the committee will discuss the complexity of prioritizing and maintaining effective investments in global health initiatives and will answer questions from the audience on future urgent needs in global health.

CHAIR

Megan Snair
The National Academies of Sciences, Engineering, and Medicine, Washington, DC, United States

Julie Pavlin
The National Academies of Sciences, Engineering, and Medicine, Washington, DC, United States

Christina Polyak
Military HIV Research Program MHRP HFJ, Walter Reed Army Institute of Research, Bethesda, MD, United States

8 a.m. U.S. FUTURE ROLE IN GLOBAL HEALTH

Michael Osterholm
University of Minnesota, Center for Infectious Disease Research and Policy (CIDRAP), Minneapolis, MN, United States

8:10 a.m. U.S. FUTURE ROLE IN GLOBAL HEALTH

Michael Merson
Duke Global Health Institute, Durham, NC, United States

8:20 a.m. U.S. FUTURE ROLE IN GLOBAL HEALTH

Amie Batson
PATH, Seattle, WA, United States

8:30 a.m. ACGH ANNUAL BUSINESS MEETING

Christina Polyak
Military HIV Research Program MHRP HFJ, Walter Reed Army Institute of Research, Bethesda, MD, United States

Ramin Asgary
Columbia School of Public Health and Weill Cornell Medical College, New York, NY, United States

9 a.m. NETWORKING AND SOCIAL TIME

Scientific Session 8

Arthropods: Other Arthropods

Convention Center - Room 324/325/326 (Level 300)
Monday, November 6, 8 a.m. - 9:45 a.m.

CHAIR

Isobel Routledge
Imperial College London, London, United Kingdom

Thomas R. Unnasch
University of South Florida, Tampa, FL, United States

8 a.m. 15

GENOMES OF TROMBIDIID MITES UNCOVER ADAPTATIONS TO PARASITISM IN THE SCRUB TYPHUS VECTOR, *LEPTOTROMBIDIUM DELIENSE*

Xiaofeng Dong¹, Kittipong Chaisiri², Martin J. Donnelly³, John W. McGarry⁴, Tatsuhiko Kadowaki¹, Alistair C. Darby⁴, **Ben L. Makepeace⁴**
¹*Xi'an Jiaotong-Liverpool University, Suzhou, China*, ²*Mahidol University, Bangkok, Thailand*, ³*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*, ⁴*University of Liverpool, Liverpool, United Kingdom*

(ACMCIP Abstract)

8:15 a.m. 16

COMMUNITY DIRECTED VECTOR CONTROL FOR ONCHOCERCIASIS

Benjamin Jacob¹, Denis Loum², Thomson Lakwo³, Peter Alinda³, Peace Habomugisha⁴, **Thomas R. Unnasch¹**
¹*University of South Florida, Tampa, FL, United States*, ²*Nwoya District Local Government Health Department, Gulu, Uganda*, ³*Vector Control Division, Ministry of Health, Kampala, Uganda*, ⁴*The Carter Center, Kampala, Uganda*

8:30 a.m. 17

ATTRACTION AND OVIPOSITION PREFERENCES OF *PHLEBOTOMUS PAPTASI*, VECTOR OF OLD-WORLD CUTANEOUS LEISHMANIASIS, TO LARVAL REARING MEDIA AND SAPROPHYTIC BACTERIA

Gideon Wasserberg¹, Bhajat F. Marayati¹, Tatsiana Symanovich¹, Loganthan Ponnusamy², Charles Apperson², Eduardo Hatano², Madhavi Kakumanu², Coby Schal²
¹*University of North Carolina at Greensboro, Greensboro, NC, United States*, ²*North Carolina State University, Raleigh, NC, United States*

8:45 a.m. 18

A LESS DIVERSE TICK MICROBIOME IS ASSOCIATED WITH *RICKETTSIA* INFECTED TICKS

Rebecca Trout Fryxell, Jennifer DeBruyn
University of Tennessee, Knoxville, TN, United States

9 a.m. 19

SARCONESIN: A NEW ANTIBACTERIAL PEPTIDE FROM BLOWFLY *SARCONESIOPSIS MAGELLANICA* (DIPTERA:CALLIPHORIDAE) LARVAL EXCRETIONS & SECRETIONS

Andrea Diaz-Roa¹, Manuel A. Patarroyo², Pedro I. da Silva Junior³, Felio J. Bello⁴
¹*Universidad Antonio Nariño, Bogotá-Colombia and Laboratório Especial de Toxinologia Aplicada, Instituto Butantan, Bogotá and São Paulo, Brazil*, ²*Molecular Biology and Immunology Department, Fundación Instituto de Inmunología de Colombia (FIDIC), Bogotá, Colombia and Basic Sciences Department, School of Medicine and Health Sciences, Universidad del Rosario, Bogotá, Colombia*, ³*Laboratório Especial de Toxinologia Aplicada, Instituto Butantan, São Paulo, Brazil*, ⁴*Universidad Antonio Nariño, Bogotá, Colombia*

9:15 a.m.

20

MATHEMATICAL MODELLING OF FOCAL VECTOR CONTROL AS A COMPLEMENTARY STRATEGY FOR ONCHOCERCIASIS ELIMINATION

Isobel Routledge¹, Martin Walker², Robert A. Cheke³, Pierre Baleguel Nkot⁴, Graham Matthews⁵, María-Gloria Basáñez⁶

¹Imperial College London and MRC Centre for Outbreak Analysis and Modelling, London, United Kingdom, ²Royal Veterinary College and London Centre for Neglected Tropical Disease Research (LCNTDR), Hatfield, United Kingdom, ³University of Greenwich at Medway, Chatham Maritime, Kent, United Kingdom, ⁴Yaoundé Initiative Foundation, Yaoundé, Cameroon, ⁵Imperial College London and Yaoundé Initiative Foundation, London, United Kingdom, ⁶Imperial College London and London Centre for Neglected Tropical Disease Research (LCNTDR), London, United Kingdom

9:30 a.m.

21

SYSTEMIC INSECTICIDE TREATMENT OF THE CANINE RESERVOIR OF *TRYPANOSOMA CRUZI* INDUCES HIGH LEVELS OF LETHALITY IN *TRIATOMA INFESTANS*, A PRINCIPAL VECTOR OF CHAGAS DISEASE IN BOLIVIA

Louisa A. Messenger¹, A. Loza², A. Talaga³, G. Herbas², J. Canaviri², T. Cahuasiri², L. Luck², A. Guibarra², A. Monero², R. Goncalves³, JA Peirera², SA Gomez², A. Picado⁴, C. Bern⁵, O. Courtenay³

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Universidad Autonoma Gabriel Rene Moreno, Santa Cruz, Plurinational State of Bolivia, ³University of Warwick, Coventry, United Kingdom, ⁴Barcelona Institute for Global Health, Barcelona, Spain, ⁵University of California San Francisco, San Francisco, CA, United States

Symposium 9

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Symposium: Microbiome-Parasite Interactions: Effects on Parasite Biology and Host Immunity

Convention Center - Room 327/328/329 (Level 300)

Monday, November 6, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

The disease that results from infection with a given microorganism can vary widely between individuals, and parasitic infections are no exception. Differences in outcome can be influenced by host and parasite genetics, immunological profile, and environmental factors such as nutrition. Recent scientific advances are emphasizing that the existing microflora colonizing the site of infection can also have a very significant effect on disease. Our understanding of human microbiomes is currently being revolutionized by genomic tools, which allow evaluation of the full complement of microbiota for the first time. This change, coupled with advances in experimental approaches, are expanding our understanding of how the microbiome can alter biological processes during parasitic infection. This symposium will present the current state of the art in the application of microbiome studies to globally significant parasite species and the vectors that transmit them. In keeping with the breadth of fundamental parasitology covered by ACMCIP, the symposium covers a range of globally significant species, the role of trypanomonads in maintaining natural gut inflammatory balance in humans, interactions between the natural gut microflora and helminths, which are a critical cause of nutritional loss in children in low-income countries globally, as well as *Plasmodium*

parasites, the causative agent of malaria, and the role that the vector microbiome plays in infection and transmission of *Leishmania* spp. The symposium will provide insights into the critical balance between human or vector hosts and their natural microbiota, and how the interplay between them can alter the balance of pathogenicity and disease.

CHAIR

Christine A. Petersen
University of Iowa, Iowa City, IA, United States

Julian C. Rayner
Wellcome Trust Sanger Institute, Cambridge, United Kingdom

8 a.m.

TRITRYCHAMONADS PROVIDE PROTECTION FROM GI INFECTIONS

Michael Grigg
National Institutes of Health, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

8:20 a.m.

MICROBIOME ALTERATION BY HELMINTHS

Lisa Reynolds
University of Victoria, Victoria, BC, Canada

8:40 a.m.

SAND FLY MICROBIOME AND *LEISHMANIA* INFECTION

Shaden Kamhawi
National Institutes of Health, Bethesda, MD, United States

9 a.m.

MALARIA INFECTION AND HOST MICROBIOME INTERACTIONS

Nathan Schmidt
University of Louisville, Louisville, KY, United States

9:20 a.m.

ACMCIP ANNUAL BUSINESS MEETING

Christine A. Petersen
University of Iowa, Iowa City, IA, United States

Scientific Session 10

Filariasis: Epidemiology and Control I

Convention Center - Room 331/332 (Level 300)

Monday, November 6, 8 a.m. - 9:45 a.m.

CHAIR

Daniel J. Tisch
Case Western Reserve University, Center for Global Health and Diseases, Cleveland, OH, United States

Samuel Wanji
University of Buea, Buea, Cameroon

8 a.m.

22

RENEWED MASS DRUG ADMINISTRATION'S IMPACT ON LYMPHATIC FILARIASIS IN A POPULATION WITH LONG LASTING INSECTICIDAL BEDNETS IN PAPUA NEW GUINEA

Daniel J. Tisch¹, Brooke Mancuso¹, Yao-Chieh Cheng¹, Samson Satofan², James Suamani², Willie Pomat³, Christopher L. King¹, 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, ³Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

8:15 a.m.

23

MAPPING OF LYMPHATIC FILARIASIS IN LOIASIS AREAS: A NEW STRATEGY SHOWS NO EVIDENCE FOR *WUCHERERIA BANCROFTI* ENDEMICITY IN CAMEROON

Samuel Wanji¹, Mathias E. Esum¹, Abdel N. Jelil¹, Amuam A. Mbeng¹, Chounna N. Patrick¹, Raphael Abong¹, Jerome Fru¹, Fanny F. Fombad¹, Gordon T. Nchanji¹, Ngandjui Narcisse¹, Peter Enyong¹, Helen Storey², Kurt C. Curtis³, Kerstin Fischer³, Peter U. Fischer³
¹University of Buea, Buea, Cameroon, ²PATH, Seattle, WA, United States, ³Washington University School of Medicine, St. Louis, MO, United States

8:30 a.m.

24

IVERMECTIN PROTECTS AGAINST EPILEPSY IN ONCHOCERCIASIS ENDEMIC REGIONS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Robert Colebunders¹, Floribert Tepage², Chellafe Ensoy-Musoro³, Michel Mandro⁴, Bethany Levick⁵, Patrick Suykerbuyk¹, Caroline Bonareri Osoro⁶, Alliance Tagoto⁷, Anne Laudoit¹
¹University of Antwerp, Antwerp, Belgium, ²Ministry of Health, Bas Uele, Democratic Republic of the Congo, ³University of Hasselt, Diegem, Belgium, ⁴Ministry of Health, Bunia, Democratic Republic of the Congo, ⁵University of Liverpool, Liverpool, United Kingdom, ⁶Nanyuki Teaching and Referral Hospital, Laikipia, Kenya, ⁷Ministry of Health, Kisangani, Democratic Republic of the Congo

8:45 a.m.

25

A NOVEL RAPID TEST FOR DETECTING ANTIBODY RESPONSES TO LOA LOA INFECTIONS

Marco A. Biamonte¹, Bijan Pedram¹, Papa M. Drame², Valérie Pasquetto¹, Maria J. Gonzalez-Moa¹, Yongchang Ji¹, Richard K. Baldwin³, Thomas B. Nutman²
¹Drugs & Diagnostics for Tropical Diseases, San Diego, CA, United States, ²National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ³nanoComposix, San Diego, CA, United States

9 a.m.

26

DEVELOPING THE FIRST NATIONAL DATABASE AND MAP OF LYMPHATIC FILARIASIS CLINICAL CASES IN BANGLADESH

Mohammed J. Karim¹, Hayley E. Mablesen², Rouseli Haq¹, Mutasim B. Azad¹, ASM Sultan Mahmood¹, Abul Khair¹, Mujibur Rahman¹, Salim Chowdhury², AKM Fazlur Rahman³, Sharmin Jahan³, Israt Hafiz¹, Charles D. Mackenzie², Mark Taylor², Louise A. Kelly-Hope²
¹Filariasis Elimination and STH Control Program, Ministry of Health and Family Welfare, Communicable Disease Control, Directorate General of Health Services, Dhaka, Bangladesh, ²Centre for Neglected Tropical Diseases, Department of Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³Centre for Injury Prevention, Health Development and Research, Bangladesh, Dhaka, Bangladesh

9:15 a.m.

27

PROJECTED NUMBER OF PEOPLE WITH ONCHOCERCIASIS-LOIASIS CO-INFECTION IN AFRICA, 1995-2025

Natalie V.S. Vinkeles Melchers¹, Afework H. Tekle², Luc E. Coffeng¹, Sébastien D. Pion³, Honorat G. Zouré², Belén Pedrique⁴, Michel Boussinesq⁵, Samuel Wanji⁶, Hans J. Remme⁶, Wilma A. Stolk¹
¹Department of Public Health, Erasmus MC, University Medical Center Rotterdam, Rotterdam, Netherlands, ²Department of Neglected Tropical Diseases, World Health Organization, Geneva, Switzerland, ³UMI233-TransVIHMI, Institut de Recherche pour le Développement (IRD), INSERM U1175, University of Montpellier, Montpellier, France, ⁴Drugs for Neglected Diseases initiative, Geneva, Switzerland, ⁵Parasites and Vectors Research Unit, Department of Microbiology and Parasitology, University of Buea, Buea, Cameroon, ⁶120 rue des Campanules, Ornex, France

9:30 a.m.

28

PREVALENCE OF EXPOSITION TO RIVER BLINDNESS IN THE GAROUA-BOULAI HEALTH DISTRICT (EAST REGION, CAMEROON): POTENTIAL CROSS-BORDER ISSUE IN THE CONTEXT OF ELIMINATION

Cédric Gaël Lenou Nanga¹, Hugues Clotaire Nana Djeunga¹, Jules Brice Tchatchueng Mbougua², Guy Roger Njitchouang¹, André Domche¹, Jean Bopda¹, Stève Mbickmen Tchana¹, Kisito Ogoussan³, Maria Rebollo³, Joseph Kamgno¹
¹Centre for Research on Filariasis and other Tropical Diseases (CRFiMT), Yaoundé, Cameroon, ²Centre Pasteur du Cameroun, Yaoundé, Cameroon, ³Task Force for Global Health, Atlanta, GA, United States

Scientific Session 11

Cestodes: Cysticercosis and Echinococcosis

Convention Center - Room 337/338 (Level 300)
Monday, November 6, 8 a.m. - 9:45 a.m.

CHAIR

Seth O'Neal
Oregon Health and Sciences University, Portland, OR, United States
Monica J. Pajuelo
Universidad Peruana Cayetano Heredia, Lima, Peru

8 a.m.

29

EVALUATION OF MORPHOLOGICAL CRITERIA DUE TO HEPATIC ALVEOLAR ECHINOCOCCOSIS BASED ON THE *ECHINOCOCCUS MULTILOCULARIS* ULM CLASSIFICATION

Tilmann Graeter, Wolfgang Kratzer, Aylin Senguel, Andreas Hillenbrand, Beate Gruener, Julian Schmidberger
University Hospital Ulm, Ulm, Germany

8:15 a.m.

30

LUNG AND LIVER CYSTIC ECHINOCOCCOSIS - CUMULATIVE INCIDENCE OF NEW HYDATID CYSTIC LESION AFTER SURGICAL TREATMENT

Saul J. Santivanéz¹, George P. Perales¹, Maria Valcarcel², Maira Arce¹, Luis Tello¹, Diego Valencia¹, Lawrence H. Moulton³, Hector H. Garcia⁴
¹Instituto Peruano de Parasitología Clínica y Experimental, Lima, Peru, ²Department of Surgery, Hospital Nacional Dos de Mayo, Lima, Peru, ³Department of International Health, Johns Hopkins University, Bloomberg School of Hygiene and Public Health, Baltimore, MD, United States, ⁴Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru

8:30 a.m.

31

GENETIC VARIABILITY OF *TAENIA SOLIUM* CYSTICERCOSIS RECOVERED FROM EXPERIMENTALLY INFECTED PIGS AND NATURALLY INFECTED PIGS USING MICROSATELLITE MARKERS

Monica J. Pajuelo¹, María Eguiluz¹, Elisa Roncal¹, Stefany Quinones-García¹, Steven J. Clipman², Juan Calcina³, Cesar Gavidia³, Patricia Sheen¹, Hector H. Garcia¹, Robert H. Gilman², Armando Gonzalez³, Mirko Zimic, for the Cysticercosis Working Group¹
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Johns Hopkins University, Baltimore, MD, United States, ³Universidad Nacional Mayor de San Marcos, Lima, Peru

(ACMCIP Abstract)

Monday
November 6

8:45 a.m.

32

INFLAMMATION IS A KEY RISK FACTOR FOR REFRACTORY SEIZURES IN PATIENTS WITH NEUROCYSTICERCOSIS

Jesica A. Herrick¹, Anjali Garg¹, Jin Suh Kim¹, Biswajit Maharathi¹, Gerardo Gomez Abundis¹, Isidro Gonzales², Herbert Saavedra², Javier Bustos², Hector H. Garcia², Jeffery A. Loeb¹

¹University of Illinois at Chicago, Chicago, IL, United States, ²Cysticercosis Unit, Department of Transmissible Diseases, Instituto Nacional de Ciencias Neurológicas, Lima, Peru

9 a.m.

33

BANDING PATTERNS OF THE ENZYME-LINKED IMMUNOELECTROTRANSFER BLOT (EITB) AND BRAIN IMAGING FINDINGS IN PATIENTS WITH NEUROCYSTICERCOSIS

Gianfranco Arroyo¹, Silvia Rodriguez¹, Andres G. Lescano¹, Karen A. Alroy², Javier A. Bustos¹, Saul Santivañez³, Isidro Gonzales⁴, Herbert Saavedra⁴, Javier Pretell⁵, Armando E. Gonzalez⁶, Robert H. Gilman⁷, Victor C. Tsang⁸, Hector H. Garcia¹

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Instituto Peruano de Parasitología Clínica y Experimental, Lima, Peru, ⁴Instituto Nacional de Ciencias Neurológicas, Lima, Peru, ⁵Hospital Alberto Sabogal, Callao, Peru, ⁶Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁷Johns Hopkins University, Baltimore, MD, United States, ⁸Georgia State University, Atlanta, GA, United States

9:15 a.m.

34

STANDARDIZATION OF A DIRECT ELISA USING MONOCLONAL ANTIBODIES FOR THE DETECTION OF PARASITE ANTIGEN IN URINE SAMPLES OF PATIENTS WITH NEUROCYSTICERCOSIS

Yesica Santos¹, Yesenia Castillo¹, Luz Toribio¹, Cindy Espinoza¹, Kevin Martel¹, Adriana Paredes¹, Cristina Guerra-Giraldez¹, Yagahira Castro-Sesquen², Isidro Gonzales³, Herbert Saavedra³, Javier A. Bustos¹, Theodore E. Nash⁴, Hector H. Garcia¹, For the Cysticercosis Working Group in Peru¹

¹Facultad de Ciencias y Filosofía, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Department of International Health, Johns Hopkins University, Bloomberg School of Hygiene and Public Health, Baltimore, MD, United States, ³Cysticercosis Unit, Instituto Nacional de Ciencias Neurológicas, Lima, Peru, ⁴Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

9:30 a.m.

35

RING STRATEGY AS AN EFFECTIVE ALTERNATIVE TO MASS DRUG ADMINISTRATION FOR CONTROL OF TAENIA SOLIUM TAENIASIS/CYSTICERCOSIS

Seth E. O'Neal¹, Cesar Gavidia², Ricardo Gamboa³, Claudio Muro³, Percy Vilchez³, Luz Maria Moyano³, Viterbo Ayvar², Sukwan Handali⁴, Armando E. Gonzalez², Robert H. Gilman⁵, Hector H. Garcia⁶, for the Cysticercosis Working Group in Peru (CWGP)⁶

¹Oregon Health & Sciences University and Portland State University, Portland, OR, United States, ²School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ³Centro de Salud Global - Tumbes, Universidad Peruana Cayetano Heredia, Tumbes, Peru, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, ⁶School of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru

Scientific Session 12

Integrated Control Measures for Neglected Tropical Diseases

Convention Center - Room 339/340 (Level 300)

Monday, November 6, 8 a.m. - 9:45 a.m.

CHAIR

Leda Hernandez
Department of Public Health-Philippines, Manila, Philippines

Charles H. King
Case Western Reserve University, Center for Global Health and Diseases, Cleveland, OH, United States

8 a.m.

36

MODIFIED MDA DID NOT SIGNIFICANTLY IMPROVE COVERAGE IN LGAS TREATING TWICE-PER-YEAR IN SOUTHERN NIGERIA

Emily Griswold¹, Abel Eigege², Cephas Iyonzughul², John Eguagie³, Emmanuel Emukah⁴, Emmanuel Miri², Ifeoma Anagbogu⁵, Yisa Saka⁵, Frank Richards¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Jos, Nigeria, ³The Carter Center, Benin City, Nigeria, ⁴The Carter Center, Owerri, Nigeria, ⁵Federal Ministry of Health, Abuja, Nigeria

8:15 a.m.

37

IMPLEMENTING THE SUPERVISOR'S COVERAGE TOOL IN THE PHILIPPINES: PILOTING TWO NOVEL ADDITIONS

Leda Hernandez¹, Winston A. Palasi¹, Camille Pauline Baladjay¹, Katherine Gass²

¹Infectious Disease Office, Disease Prevention and Control Bureau, Department of Health, Manila, Philippines, ²Task Force for Global Health, Decatur, GA, United States

8:30 a.m.

38

INTEGRATED PREVALENCE SURVEY OF SKIN NTDS AND COMMON SKIN DISEASES AMONG SCHOOLCHILDREN IN GAGNOA, CÔTE D'IVOIRE: DIAGNOSIS AND RISK FACTOR ANALYSIS

Rie R. Yotsu¹, Amari Akpa², Konan N'Guessan², Aubin Yao², Aka N'Guetta³, Emma Yeboue⁴, Norihisa Ishii⁵, Kouamé Kouadio³, Tape R. Djakeaux⁴, Julien Aké⁶, Marie Constance A. Kadio⁷, Bamba Vagamon⁷

¹National Center for Global Health and Medicine, Tokyo, Japan, ²MAP International, Abidjan, Côte D'Ivoire, ³Pasteur Institute, Abidjan, Côte D'Ivoire, ⁴National Leprosy Control Program, Abidjan, Côte D'Ivoire, ⁵Leprosy Research Center, Tokyo, Japan, ⁶Effect Hope, Abidjan, Côte D'Ivoire, ⁷Raoul Follereau Institute, Abidjan, Côte D'Ivoire

8:45 a.m.

39

DRAMATIC INCREASE IN THE PARTICIPATION WITH MECTIZAN TREATMENT IN SECOND ROUND OF TEST AND TREAT IN AN AREA COENDEMIC FOR LOIASIS AND ONCHOCERCIASIS

Joseph Kamgno¹, Sebastien D. Pion², Hugues Nana-Djeunga³, Cédric B. Chesnais², André Domche³, Raceline Gounoue-Kamkumo³, Guy-Roger Njitchouang³, Wilma A. Stolk⁴, Daniel A. Fletcher⁵, Charles D. Mackenzie⁶, Amy D. Klion⁷, Thomas B. Nutman⁷, Michel Boussinesq²

¹Centre for Research on Filariasis and other Tropical Diseases, and Faculty of Medicine and Biomedical Sciences University of Yaounde I, Yaounde, Cameroon, ²IRD UMI 233-INSERM U1175-Montpellier University, Montpellier, France, ³Centre for Research on Filariasis and other Tropical Diseases, Yaounde, Cameroon, ⁴Department of Public Health, Erasmus MC, University Medical Center, Rotterdam, Netherlands, ⁵Department of Bioengineering, University of California, Berkeley, CA, United States, ⁶Department of Pathobiology and Diagnostic Investigation, Michigan State University, East Lansing, MI, United States, ⁷Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

9 a.m.

40

LYMPHATIC FILARIASIS TRANSMISSION ASSESSMENT SURVEYS (TAS) AS AN OPPORTUNITY TO EVALUATE THE IMPACT OF MASS DRUG ADMINISTRATION (MDA) ON TRANSMISSION OF ONCHOCERCIASIS AND SOIL TRANSMITTED HELMINTHIASIS

Hugues Nana Djeunga¹, Rufine Touka-Nounkeu¹, Jules Brice Tchatchueng Mbougua¹, Guy Roger Njitchouang¹, André Domche¹, Julie Akame², Georges Nko'o-Ayissi³, Benjamin Didier Biholong³, Yaobi Zhang⁴, Kizito T Ogoussan⁵, Maria P Rebollo⁶, Joseph Kamgno⁷

¹Centre for Research on Filariasis and Other Tropical Diseases, Yaoundé, Cameroon, ²Helen Keller International, Yaoundé, Cameroon, ³Ministry of Public Health, Yaoundé, Cameroon, ⁴Helen Keller International, Regional Office, Dakar, Senegal, ⁵NTDs Support Center, Task Force for Global Health, Decatur, GA, United States, ⁶Expanded Special Project for Elimination of NTDs, WHO-AFRO, Brazzaville, Republic of the Congo, ⁷Centre for Research on Filariasis and other Tropical Diseases, and Faculty of Medicine and Biomedical Sciences, Yaoundé, Cameroon

9:15 a.m.

41

LYMPHATIC FILARIASIS AND PODOCONIOSIS: INTEGRATED MORBIDITY MANAGEMENT AND DISABILITY PREVENTION SERVICES FOR LYMPHOEDEMA AND HYDROCOELE PATIENTS IN THREE CO-ENDEMIC DISTRICTS OF ETHIOPIA

Asrat Mengiste¹, Dereje Assefa¹, Fikre H/Kiros¹, Mussie Tamiru², Biruck Kebede², Charles Mackenzie³, Mark Taylor³, Louise Kelly-Hope³, Sarah Martindale³

¹National Podoconiosis Action Network, Addis Ababa, Ethiopia, ²Federal Ministry of Health, Addis Ababa, Ethiopia, ³Centre for Neglected Tropical Diseases, Department of Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9:30 a.m.

42

ADDING ONCHOCERCIASIS MONITORING TO LYMPHATIC FILARIASIS TRANSMISSION ASSESSMENT SURVEYS: THE TANZANIA EXPERIENCE

Upendo Mwingira¹, Maria Chikawe¹, Cecilia Uisso¹, Boniphace Idindili², Sarah Craciunoiu³, Delali Bonuedi⁴, Kathryn Crowley⁴, Darin Evans⁵, Andreas Nshala²

¹Tanzania Neglected Tropical Disease Control Program, Dar es Salaam, United Republic of Tanzania, ²IMA World Health, Dar es Salaam, United Republic of Tanzania, ³IMA World Health, Washington, DC, United States, ⁴RTI International, Washington, DC, United States, ⁵U.S. Agency for International Development, Washington, DC, United States

Scientific Session 13

Global Health: Community-Based Platforms

Convention Center - Room 341/342 (Level 300)

Monday, November 6, 8 a.m. - 9:45 a.m.

CHAIR

Seynabou Gaye
National Malaria Control Program, Dakar, Senegal

David H. Hamer
Boston University, Center for Global Health and Development, Boston, MA, United States

8 a.m.

43

REALIZING THE POTENTIAL OF COMMUNITY HEALTH WORKERS TO PROVIDE MALARIA CASE MANAGEMENT: SENEGAL'S SCALE UP OF PROACTIVE COMMUNITY CASE MANAGEMENT

Seynabou Gaye¹, Julie Thwing², Medoune Ndiop¹, Alioune B. Gueye¹, Fatou B. Fall¹, Moustapha Cisse¹, Moustapha Cisse¹, Ibrahima Diallo¹, Kathy Sturm-Ramirez², Oumar Sarr¹, Oumar Sarr¹

¹National Malaria Control Program, Dakar, Senegal, ²Centers for Disease

Control and Prevention, Atlanta, GA, United States, ³Centers for Disease Control and Prevention, Dakar, Senegal

8:15 a.m.

44

MALARIA COMMUNITY- BASED MANAGEMENT IN INFORMAL KORANIC RESIDENTIAL SCHOOLS: A PILOT IN SENEGAL

Seynabou Gaye¹, Katharine Sturm-Ramirez², Alioune Badara Gueye¹, Medoune Ndiop¹, Julie Thwing², Fatou Ba¹, Ibrahima Diallo¹, Moustapha Cisse¹, Mame Birame Diouf³, Omar Sarr¹

¹National Malaria Control Program, Dakar, Senegal, ²U.S. Centers for Disease Control and Prevention, President's Malaria Initiative, Atlanta, GA, United States, ³U.S. Agency for International Development and President's Malaria Initiative, Dakar, Senegal

8:30 a.m.

45

IMPROVING EARLY ANC ATTENDANCE AND IPT UPTAKE THROUGH COMMUNITY HEALTH VOLUNTEERS (CHVS)

Augustine Ngindu¹, Susan Ontiri¹, Gathari Ndirangu¹, Beth Barasa¹, Evans Nyapada¹, David Omoit², Johnstone Akatu², Mildred Mudany³

¹Jhpiego - MCSP, Washington, DC, United States, ²Ministry of Health, Bungoma, Kenya, ³Jhpiego, Washington, DC, United States

8:45 a.m.

46

INCREASE IN DELIVERY OF INTERVENTIONS TO DECREASE MALARIA AMONG PREGNANT WOMEN IN SENEGAL

Moustapha I. Cisse¹, Julie I. Thwing², Medoune Ndiop¹, Alioune B. Gueye¹, Ibrahima Diallo¹, Seynabou Gaye¹, Mamadou L. Diouf¹, Katherine Sturm-Ramirez², Oumar Sarr¹

¹Senegal National Malaria Control Program, Dakar, Senegal, ²Centers for Disease Control and Prevention and U.S. President's Malaria Initiative, Atlanta, GA, United States, ³Centers for Disease Control and Prevention and U.S. President's Malaria Initiative, Dakar, Senegal

9 a.m.

47

ASSESSMENT OF FACILITATORS AND BARRIERS TO ACHIEVING THE TARGET IPTP MUTASA DISTRICT, MANICALAND PROVINCE, ZIMBABWE: A FORMATIVE ASSESSMENT

Fadzai Mutseyekwa¹, Rugare Mandigo¹, Simba Mashizha², Munyaradzi Mukuzunga², Zacharia Grand², Charles Uzande², Blessmore Chaibva², Patron Mafaune², Joseph Mberikunashwe², Davidzoyashe Makosa¹, Kate Gilroy³, Rose Kambarami¹

¹Maternal Child Integrated Program (MCHIP), Harare, Zimbabwe, ²Manicaland Provincial Medical Directorate, Manicaland, Zimbabwe, ³Maternal Child Survival Program (MCSP), Washington, DC, United States

9:15 a.m.

48

TREATMENT OF YOUNG INFANT INFECTION IN NTCHU DISTRICT (TYIIN): IMPLEMENTATION RESEARCH ON SIMPLIFIED TREATMENT OF POSSIBLE SERIOUS BACTERIAL INFECTIONS AND FAST BREATHING AMONG YOUNG INFANTS IN NTCHU DISTRICT, MALAWI

Tanya P. Guenther¹, Gladson Mopiwa², Gomezgani Jenda², Humphreys Nsona³, Regina Makuluni⁴, Chancy Banda Fundani⁴, Salim Sadruddin⁵

¹Save the Children, Washington, DC, United States, ²Save the Children, Lilongwe, Malawi, ³Ministry of Health (MOH), Lilongwe, Malawi, ⁴District Health Office, MOH, Ntcheu, Malawi, ⁵World Health Organization, Geneva, Switzerland

Monday
November 6

9:30 a.m.

49

THE RESILIENCE OF INTEGRATED COMMUNITY CASE MANAGEMENT IN ACUTE EMERGENCY: A CASE STUDY FROM SOUTH SUDAN

Naoko Kozuki¹, Katja Ericson², Bethany Marron³, Yolanda Barbera Lainez⁴, Nathan P. Miller⁵

¹International Rescue Committee, Washington, DC, United States, ²International Rescue Committee, Hatay, Turkey, ³International Rescue Committee, Nairobi, Kenya, ⁴International Rescue Committee, New York, NY, United States, ⁵UNICEF, New York, NY, United States

Symposium 14

HIV and Liver Diseases

Convention Center - Room 343/344 (Level 300)

Monday, November 6, 8 a.m. - 9:45 a.m.

Supported with funding from Gilead

A dramatic reduction in HIV-related mortality has been observed in resource-limited countries with the introduction of antiretroviral therapy. As occurrence of opportunistic diseases decrease, other chronic infections become a concerning source of morbidity and mortality. In this regard, liver-related disease is the second most common cause of mortality in HIV-infected individuals, and the most common independent of AIDS. Co-infection with viral hepatitis viruses, as well as the direct impact of HIV in the liver, have been a point of interest in developed settings, but the inter-connection of liver-related infections with immune modulation from pathologies present in tropical and developing settings seems rather under-appreciated. This symposium will examine factors that affect liver disease during the progression of HIV infection, particularly in resource-limited settings. The session will emphasize the roles of viral hepatitis co-infection with HIV and potential alternative immune-modulation pathways related to tropical diseases, as well as interactions of HIV with other diseases that affect the liver. The symposium will discuss important clinical and prognostic variables as well as immune pathways related to HIV and liver disease. Participants will be presented with with both clinically applicable recommendations, as well as the latest research findings in the field. The following topics will be discussed: a) Co-infection of HIV with hepatitis B virus: role of infections such as *schistosoma* in affecting chronic liver disease in the HIV-infected individual, response and effect of therapy; b) Co-infection of HIV with hepatitis C virus: complexity of immune response against HCV in the setting of immunosuppression, progression to advanced liver fibrosis due to treated HIV and untreated HCV virus and potential for cure of hepatitis C in co-infected patients in resource-limited settings; c) Co-infection of HIV with hepatitis E virus: the potential damage of viral hepatitis E in HIV-infected patients, progression of liver disease in co-infected patients and risk factors for HEV; d) The direct role of HIV in the liver: effects of the virus in promoting liver fibrosis and the modulation of virus-related damage by antiretroviral therapy, additional issues in resource-limited settings.

CHAIR

Jose D. Debes

University of Minnesota, Minneapolis, MN, United States

Andre Boonstra

Erasmus MC, Rotterdam, Netherlands

8 a.m.

HEPATITIS C INFECTION IN THE SETTING OF HIV, GLOBAL PERSPECTIVE ON IMMUNE MECHANISMS

Andre Boonstra

Erasmus MC, Rotterdam, Netherlands

8:20 a.m.

HEPATITIS B AND HIV-CO-INFECTION: THE ROLE OF OTHER PATHOGENS

Geraldine O'Hara

London School of Hygiene & Tropical Medicine, London, United Kingdom

8:40 a.m.

HEPATITIS E INFECTION IN THE HIV-POSITIVE PATIENT

Maria Belen Pisano

Instituto de Virologia de Cordoba, Cordoba, Argentina

9 a.m.

THE DIRECT IMPACT OF HIV ON THE LIVER

Jose D. Debes

University of Minnesota, Minneapolis, MN, United States

Exhibit Hall Open

Convention Center - Swing Hall (Level 100)

Monday, November 6, 9:30 a.m. - 10:30 a.m.

Coffee Break

Convention Center - Swing Hall (Level 100)

Monday, November 6, 9:45 a.m. - 10:15 a.m.

Poster Session A Set-Up

Convention Center - Hall F and G (Level 100)

Monday, November 6, 9:45 a.m. - 10:15 a.m.

Bonus Event

GET A SHOT. GIVE A SHOT.®

Convention Center - Pratt Street Lobby (Level 300)

Monday, November 6, 10 a.m. - 5 p.m.

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed17 gives attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

Bonus Event

UNDER THE NET

Convention Center - Pratt Street Lobby (Level 300)

Monday, November 6, 10 a.m. - 5 p.m.

Walk in the shoes of 11-year-old Amisa, a refugee living in the Nyarugusu Refugee Camp in Tanzania, through a virtual reality experience (VR) presented by the UN Foundation's Nothing But

Nets campaign. Under the Net is the story of Amisa, her mother and six siblings as they struggle to survive each day with no protection from mosquitoes that carry malaria at night. Be sure to stop by the Nothing But Nets exhibit and watch Amisa's story through her eyes – as only VR can present it.

Bonus Event

PROJECT ZERO

Convention Center - Pratt Street Lobby (Level 300)

Monday, November 6, 10 a.m. – 5 p.m.

Don't miss the latest virtual reality (VR) films by *HuffPost's* Project Zero, an ongoing series created to raise awareness around neglected tropical diseases and efforts to fight them. Three 360-degree VR films tell the untold stories of the victims and health workers battling Elephantiasis, River Blindness and Sleeping Sickness in some of the most remote and underdeveloped regions of the world. Explore the challenges of and progress toward eliminating these diseases in an experience provided through the VR format.

Poster Session A Viewing

Convention Center - Hall F and G (Level 100)

Monday, November 6, 10:15 a.m. - Noon

Symposium 15

What Kinds of Molecules are Needed to Control and Eradicate Malaria?

Convention Center - Ballroom I (Level 400)

Monday, November 6, 10:15 a.m. - Noon

For chemotherapy to play a role beyond the control of malaria, it is critical for new drug combinations to be made up of molecules having activity beyond the asexual blood stage. Medicines for Malaria Venture (MMV) has updated the malaria Target Product Profiles (TPP) which describe how a combination product needs to perform to be clinically relevant. In addition, the Target Candidate Profiles (TCP), which define the attributes of individual molecules necessary to deliver the TPP have also been refined. Such criteria enable the research community to focus drug discovery and development efforts in a way that meets the strategic long-term goals of a 90% reduction in incidence and deaths by 2030, and the delivery of tools to consider parasite elimination strategies beyond this date. This symposium will explain the two TPPs: treatment and chemoprotection and how these relate to the different ways in which such drug combinations are used in the field. Furthermore, the various TCPs (clearance of asexual blood stages TCP1, anti-relapse TCP3, chemoprotection TCP4 and transmission blocking TCP5 and TCP6) using project case studies. TCP1 covers the profile of molecules able to clear asexual blood stages in patients. The first speaker will present a novel series of antimalarials with rapid parasite clearance, an inability to select for resistance and excellent *in vivo* efficacy. TCP3 covers the profile of molecules able to prevent relapses in vivax or ovale malaria through clearing or reactivating (and then killing) dormant hypnozoites. The next speaker will present his team's 384 well *P. vivax* liver stage assay and explain the progress and strategies to find novel radical

cure agents without the issues of haemolysis in G6PD deficient patients. TCP4 covers the profile of molecules able to prevent infection in individuals threatened with an outbreak, or migrating from non-endemic regions to those that are endemic, through clearance of developing liver stage parasites. The following presenter will discuss a novel approach involving intra-muscular injection of antimalarials so as to provide protection from one to three months in patients. TCP5 and TCP6 cover the profile of transmission blocking molecules either through rendering the gametocyte non-functional (TCP5) or through killing the mosquito vector following a blood meal (TCP6). The final speaker will present her transmission blocking platform strategy involving both approaches, as well as discussing the potential that long acting endectocides could have on transmission.

CHAIR

Jeremy N. Burrows

Medicines for Malaria Venture, Geneva, Switzerland

Kirsten Hanson

University of Texas at San Antonio, San Antonio, TX, United States

10:15 a.m.

OVERVIEW OF TARGET PRODUCT PROFILES AND TARGET CANDIDATE PROFILES

Jeremy N. Burrows

Medicines for Malaria Venture, Geneva, Switzerland

10:20 a.m.

TCP1: CLEARANCE OF ASEQUAL PARASITEMIA WITH A NOVEL, RAPID ACTING SERIES

Alain Pellet

Sanofi Pasteur, Marcy l'Etoile, France

10:40 a.m.

TCP3: STRATEGIES FOR IDENTIFYING NOVEL ANTI-RELAPSE AGENTS

Dennis E. Kyle

University of Georgia, Center for Tropical and Emerging Global Diseases, Athens, GA, United States

11 a.m.

TCP4: NOVEL INTRA-MUSCULAR STRATEGIES FOR CHEMOPROTECTION

Arnab K. Chatterjee

California Institute for Biomedical Research (Calibr), La Jolla, CA, United States

11:20 a.m.

TCP5 AND TCP6: TO TARGET GAMETOCYTES OR TO TARGET MOSQUITOES? THAT IS THE QUESTION

Angelika Sturm

TropiQ Health Sciences, Nijmegen, Netherlands

Scientific Session 16

Malaria: Immunology

Convention Center - Ballroom II (Level 400)

Monday, November 6, 10:15 a.m. - Noon

CHAIR

Katherine R. Dobbs

Case Western Reserve University, Center for Global Health and Diseases, Cleveland, OH, United States

Kim C. Williamson

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

10:15 a.m.

50

Presentation by Burroughs Wellcome Fund- ASTMH Fellowship Recipient

PRIMED INNATE IMMUNE RESPONSES IN MONOCYTES FROM KENYAN CHILDREN WITH UNCOMPLICATED FALCIPARUM MALARIA

Katherine R. Dobbs¹, Paula Embury¹, John Vulule², Peter Sumba Odada², Bruce A. Rosa³, Makedonka Mitreva³, James W. Kazura¹, Arlene E. Dent¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Washington University, St. Louis, MO, United States

10:30 a.m.

51

INDIVIDUAL AND COMPOSITE AMA-1 CELLULAR RESPONSES AND THEIR ASSOCIATION WITH CLINICAL MALARIA IN A PEDIATRIC COHORT IN MOZAMBIQUE AND TANZANIA

Gemma Moncunill¹, Maxmillian Mpina², Augusto J. Nhabomba³, Aintzane Ayesteran¹, Ruth Aguilar¹, Héctor Sanz¹, Joseph J. Campo¹, Chenjerai Jairoce³, Diana Barrios¹, Núria Díez-Padrisa¹, Nana A. Williams¹, John J. Aponte¹, Jaroslaw Harezlak⁴, Sheetij Dutta⁵, Claudia Daubenberger⁶, Carlota Dobaño¹, Clarissa Valim⁷

¹ISGlobal, Barcelona, Spain, ²Ifakara Health Institute, Bagamoyo Research and Training Centre, Bagamoyo, United Republic of Tanzania, ³Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique, ⁴University of Indiana, Indianapolis, IN, United States, ⁵Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁶Swiss Tropical and Public Health Institute, Basel, Switzerland, ⁷Michigan State University, East Lansing, MI, United States

10:45 a.m.

52

ATYPICAL ACTIVATION OF DENDRITIC CELLS BY PLASMODIUM FALCIPARUM

Anton Goetz¹, Mei San Tang², Maureen Ty², Charles Arama³, Aissata Ongoiba³, Didier Doumtabé³, Boubacar Traore³, P'ng Loke², Ana Rodriguez⁴, Peter Crompton¹

¹National Institutes of Health, Rockville, MD, United States, ²New York University School of Medicine, New York, NY, United States, ³Mali International Centers for Excellence in Research, Bamako, Mali, ⁴New York University School of Medicine, New York, NY, United States

(ACMCIP Abstract)

11 a.m.

53

TO KILL PARASITE THE NATURAL KILLER WAY: ANTIBODY MEDIATED CELLULAR IMMUNE RESPONSE AGAINST BLOOD STAGE MALARIA

Gunjan Arora¹, Javier Manzella-Lapeira¹, David L. Narum¹, Patrick E. Duffy¹, Louis H. Miller¹, Susan K. Pierce¹, Sanjay A. Desai¹, Geoffrey T. Hart², Eric O. Long¹

¹National Institute of Allergy and Infectious Diseases, National Institutes

of Health, Rockville, MD, United States, ²Division of Infectious Disease and International Medicine, Department of Medicine, University of Minnesota, Minneapolis, MN, United States

(ACMCIP Abstract)

11:15 a.m.

54

IMPACT OF PLACENTAL MALARIA ON CORD BLOOD Vδ2 T LYMPHOCYTES IN MALAWI

Haoting Hsu¹, Sarah E. Boudova², Godfrey Mvula³, Titus Divala³, Randy Mungwira³, David Pauza¹, Christopher Harman⁴, Karl Seydel⁵, Miriam K. Laufer², Cristiana Cairo¹

¹Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD, United States, ²Division of Malaria Research, Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ³Blantyre Malaria Project, University of Malawi College of Medicine, Blantyre, Malawi, ⁴Obstetrics, Gynecology and Reproductive Health, University of Maryland School of Medicine, Baltimore, MD, United States, ⁵College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States

11:30 a.m.

55

ANTIBODIES TO PLASMODIUM VIVAX PVDBP REVEAL A MECHANISM FOR CROSS-SPECIES IMMUNITY TO P. FALCIPARUM PLACENTAL MALARIA

Sedami Gnidehou¹, Catherine Mitran¹, Eliana Arango², Shanna Banman¹, Angie Mena¹, Evelyn Medawar¹, Barbara A. Lima³, Jahanara Rajwani¹, Albert Jin¹, Kenneth Gavina¹, Francis Ntumngia⁴, Nicaise Ndam⁵, Ali Salanti⁶, Flora S. Kano³, Luzia H. Carvahlo³, John H. Adams⁴, Amanda Maestre², Michael F. Good⁷, Stephanie K. Yanow¹

¹University of Alberta, Edmonton, AB, Canada, ²Universidad de Antioquia, Medellín, Colombia, ³FIOCRUZ, Belo Horizonte, Brazil, ⁴University of South Florida, Tampa, FL, United States, ⁵University of Ghana, Accra, Ghana, ⁶University of Copenhagen, Copenhagen, Denmark, ⁷Griffith University, Gold Coast, Australia

(ACMCIP Abstract)

11:45 a.m.

56

DECLINING MALARIA TRANSMISSION DIFFERENTIALLY IMPACTS ON THE MAINTENANCE OF HUMORAL IMMUNITY TO PLASMODIUM FALCIPARUM IN CHILDREN

Cleopatra K. Mugenyi¹, Salenna R. Elliott¹, Xi Zen Yap¹, Gaoqian Feng¹, Gregory Fegan², Philippe Boeuf¹, Faith F. Osier², Freya J. Fowkes¹, Marion Avri³, Thomas N. Williams², Kevin Marsh², James G. Beeson¹

¹Burnet Institute, Melbourne, Australia, ²Kenya Medical Research Institute, Kilifi, Kenya, ³Centre for Infectious Disease Research, Seattle, WA, United States

Scientific Session 17

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoans - Molecular Biology

Convention Center - Ballroom III (Level 400)

Monday, November 6, 10:15 a.m. - Noon

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Amy K. Bei

Harvard T.H. Chan School of Public Health, Boston, MA, United States

Bjorn F. Kafsack

Weill Cornell Medical College, New York, NY, United States

10:15 a.m.

2005

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2017. SEE THE MEETING APP AND ONLINE PROGRAM PLANNER FOR SPEAKER INFORMATION.

10:30 a.m.

2006

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2017. SEE THE MEETING APP AND ONLINE PROGRAM PLANNER FOR SPEAKER INFORMATION.

10:45 a.m.

57

SINGLE-CELL RNA-SEQ REVEALS ACTIVATION OF CHROMATIN REGULATORS BY AP2-G DURING SEXUAL COMMITMENT IN MALARIA PARASITES

Asaf Poran, Christopher Noetzel, Olivier Elemento, Bjorn F. Kafsack
Weill Cornell Medical College, New York, NY, United States

(ACMCIP Abstract)

11 a.m.

58

A SATURATION-LEVEL PIGGYBAC MUTAGENESIS SCREEN OF THE *PLASMODIUM FALCIPARUM* GENOME DEFINES GENES IMPORTANT FOR *IN VITRO* ASEXUAL BLOOD-STAGE GROWTH

Min Zhang¹, Chengqi Wang¹, Jenna Oberstaller¹, Thomas D. Otto², Swamy Adapa¹, Xiangyun Liao¹, Justin Swanson¹, Suzanne Li¹, Kenneth Udenze¹, Julian C. Rayner², Rays H. Jiang¹, John H. Adams¹
¹University of South Florida, Tampa, FL, United States, ²Wellcome Trust Sanger Institute, Hinxton, United Kingdom

(ACMCIP Abstract)

11:15 a.m.

59

FUNCTIONAL ANALYSIS OF A SPOOROZITE RHOPTRY PROTEIN DURING HEPATOCYTE INFECTION

Sirasate Bantuchai¹, Mamoru Nozaki¹, Amporn Thongkuiatkul², Natcha Lorsuwannarat¹, Mayumi Tachibana¹, Kazuhiro Matsuoka¹, Takafumi Tsuboi³, Motomi Torii¹, Tomoko Ishino¹
¹Ehime University, Toon, Japan, ²Brupha University, Chonburi, Japan, ³Ehime University, Matsuyama, Japan

(ACMCIP Abstract)

11:30 a.m.

60

***PLASMODIUM FALCIPARUM* GENETIC COMPLEXITY INFLUENCES TRANSCRIBED *VAR* REPERTOIRE AND IMMUNE RECOGNITION AMONG HIGHLY RELATED GENOTYPIC CLUSTERS**

Amy K. Bei¹, Kazutoyo Miura², Daniel B. Larremore³, Ababacar Diouf², Nicholas K. Baro¹, Rachel F. Daniels¹, Allison Griggs⁴, Eli L. Moss⁴, Daniel E. Neafsey⁴, Awa B. Deme⁵, Mouhamad Sy⁵, Stephen Schaffner², Ambroise D. Ahouidi⁵, Daouda Ndiaye⁶, Tandakha Dieye⁵, Souleymane Mboup⁷, Caroline O. Buckee⁸, Sarah K. Volkman¹, Carole A. Long², Dyann F. Wirth¹
¹Harvard TH Chan School of Public Health, Boston, MA, United States, ²Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ³Santa Fe Institute, Santa Fe, NM, United States, ⁴Broad Institute of Massachusetts Institute of Technology and Harvard, Cambridge, MA, United States, ⁵Laboratory of Bacteriology and Virology, Le Dantec Hospital, Faculty of Medicine and Pharmacy, Cheikh Anta Diop University, Dakar, Senegal, ⁶Laboratory of Parasitology and Mycology, Faculty of Medicine and Pharmacy, Cheikh Anta Diop University, Dakar, Senegal, ⁷Institut de Recherche en Santé,

de Surveillance Epidemiologique et de Formations, Dakar, Senegal, ⁸Center for Communicable Disease Dynamics, Harvard TH Chan School of Public Health, Boston, MA, United States

(ACMCIP Abstract)

11:45 a.m.

61

ALBA4 COORDINATES STAGE-SPECIFIC INTERACTIONS AND MRNA FATES DURING *PLASMODIUM* GROWTH AND TRANSMISSION

Elyse E. Munoz, Kevin J. Hart, Michael P. Walker, Mark F. Kennedy, Mackenzie M. Shipley, Scott E. Lindner
Pennsylvania State University, University Park, PA, United States

(ACMCIP Abstract)

Symposium 18

Clinical Update: What's New in Literature?

Convention Center - Ballroom IV (Level 400)

Monday, November 6, 10:15 a.m. - Noon

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 Zika, malaria, yellow fever and diagnostics technology.

CHAIR

Lin H. Chen
Mount Auburn Hospital and Harvard Medical School, Cambridge and Boston, MA, United States

Bobbi Pritt
Mayo Clinic, Rochester, MN, United States

10:15 a.m.

ZIKA

Susan Hills
Centers for Disease Control and Prevention, Fort Collins, CO, United States

10:40 a.m.

MALARIA

Johanna P. Daily
Albert Einstein College of Medicine, Bronx, NY, United States

11:05 a.m.

YELLOW FEVER

Erin Staples
Centers for Disease Control and Prevention, Fort Collins, CO, United States

11:30 a.m.

DIAGNOSTICS TECHNOLOGY

Bobbi Pritt
Mayo Clinic, Rochester, MN, United States

Monday
November 6

Symposium 19

Strengthening Surveillance Systems as a Pillar of the Global Technical Strategy: Practical Progress from Country Teams

Convention Center - Room 318/319/320 (Level 300)

Monday, November 6, 10:15 a.m. - Noon

Malaria control interventions have received a boost of funding and renewed attention in the past decade. The success of these programs has reduced transmission; now malaria cases tend to be concentrated in discrete areas or subpopulations. Strong malaria surveillance is increasingly important in this context: surveillance systems trigger case-specific responses, in addition to identifying gaps in intervention coverage or potential outbreaks. The World Health Organization's Global Technical Strategy affirms the importance of surveillance, naming "Transforming malaria surveillance into a core intervention" as one its three pillars to be achieved by 2030. As DHIS 2 uptake increases, countries are moving toward integrated health management information systems (HMIS), posing a unique opportunity to increase the focus on and quality of routine data, including surveillance data. HMIS provide routinely collected data on malaria-related indicators across all levels of the health system. These data allow program managers to efficiently allocate limited resources and assess progress. However, there are challenges to well-functioning HMIS, and these challenges are shared by malaria surveillance systems. Malaria surveillance systems must also fit in an overall Integrated Disease Surveillance and Response (IDSR) system and other parallel surveillance systems. In this symposium, attendees will hear from country teams about the role that malaria surveillance, and its connection with the overall IDSR, has played in countries with differing malaria contexts. Participants will also learn about what is required to build and sustain a strong surveillance system, including commodities, trained staff and feedback loops.

CHAIR

Yazoume Ye

ICF, Rockville, MD, United States

Jui A. Shah

ICF, Washington, DC, United States

10:15 a.m.

SENEGAL: USING SURVEILLANCE DATA DURING A RAPID TRANSITION FROM HIGH TO LOW MALARIA BURDEN

Medoune Ndiop

Programme National de Lutte contre le Paludisme (PNLP), Dakar, Senegal

10:30 a.m.

MADAGASCAR: FITTING MALARIA SURVEILLANCE INTO THE INTEGRATED DISEASE SURVEILLANCE AND RESPONSE AND ROUTINE HEALTH INFORMATION SYSTEMS

Arsene Ratsimbaoa

Programme national de Lutte contre le Paludisme (PNLP), Antananarivo, Madagascar

10:45 a.m.

INCREASING CAPACITY IN AND OVERCOMING BOTTLENECKS TO STRONG MALARIA SURVEILLANCE IN SUB-SAHARAN AFRICA

Keziah Malm

National Malaria Control Program, Accra, Ghana

11:15 a.m.

LOOKING TOWARD THE FUTURE: REMAINING GAPS AND OPPORTUNITIES FOR SURVEILLANCE SYSTEMS IN SUB-SAHARAN AFRICA

Arantxa Roca-Feltrer

Malaria Consortium, London, United Kingdom

Symposium 20

ASTMH Committee on Global Health (ACGH) Symposium II: Building a Successful Career in Global Health - An Interactive Session with Global Health Experts

Convention Center - Room 321/322/323 (Level 300)

Monday, November 6, 10:15 a.m. - Noon

Beginning a career in global health is both exciting and challenging. Finding one's niche, collaborating with others, finding a job and promoting one's skills, and sharing one's findings with the broader scientific community 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, organized 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. In this exciting interactive session, international global health experts, as well as others, will meet with attendees in small groups to share practical experience and skills. Topics will include finding and maintaining appropriate mentorship, presentations and scientific writing and other career-building skills. By structuring the symposium in breakout sessions, 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. The small groups will be divided into categories that participants will choose based on their current needs. The session features representatives from global health academic institutions in the U.S. and INGOs, as well. Lastly, the scientific writing session has been very popular. Topics for breakout groups will include: 1. Skills and strategies to succeed in global health in low- and middle-income countries. 2. Skills and strategies to succeed in global health in the United States. 3. Skills and strategies to succeed in writing, presenting and publishing global health related research at scientific forums and in medical/public health journals. By equipping early career individuals with the tools to develop their careers, the ASTMH Committee on Global Health aims to foster the growth of the global health field with the ultimate intent of benefitting the most vulnerable populations in resource-limited areas. Lastly, global health is full of ambitious, caring, intelligent individuals. By imparting practical wisdom in this unique setting, the leadership of the ASTMH Committee on Global Health hopes to continue to foster the enthusiasm and drive that brought them to global health in the first place.

CHAIR

Ramin Asgary

Columbia School of Public Health and Weill Cornell Medical College, New York, NY, United States

Christina S. Polyak

Walter Reed Army Institute of Research, Bethesda, MD, United States

10:15 a.m.
INTRODUCTION

Ramin Asgary
Columbia School of Public Health and Weill Cornell Medical College, New York, NY, United States

10:25 a.m.
BREAKOUT SESSION: 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
Columbia School Public Health and Weill Cornell School of Medicine, New York, NY, United States

BREAKOUT SESSION: SKILLS AND STRATEGIES TO SUCCEED IN GLOBAL HEALTH IN LOW- AND MIDDLE-INCOME COUNTRIES

Ryan W. Carroll
Massachusetts General Hospital, Boston, MA, United States

Abiola Fasina
Henry Jackson Foundation, Bethesda, MD, United States

BREAKOUT SESSION: SKILLS AND STRATEGIES TO SUCCEED IN GLOBAL HEALTH IN THE UNITED STATES

Katherine Taylor
University of Notre Dame, Eck Institute for Global Health, Notre Dame, IN, United States

11:50 a.m.
WRAP-UP

Ramin Asgary
Columbia School of Public Health and Weill Cornell Medical College, New York, NY, United States

Scientific Session 21

Mosquitoes - Vector Biology - Epidemiology I

Convention Center - Room 324/325/326 (Level 300)
Monday, November 6, 10:15 a.m. - Noon

CHAIR

Jenny S. Carlson
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Ryan C. Smith
Iowa State University, Ames, IA, United States

10:15 a.m. **62**

INVESTIGATING THE VECTOR COMPETENCE OF CULEX QUINQUEFASCIATUS FOR ZIKA VIRUS

Hannah J. MacLeod¹, Yessenia I. Anglero-Rodriguez¹, Xiao-xia Guo², Tong-yan Zhao², George Dimopoulos¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Institute of Microbiology and Epidemiology, Beijing, China

10:30 a.m. **63**

LONG-TERM SURVEILLANCE DEFINES SPATIAL, TEMPORAL AND ENVIRONMENTAL PATTERNS THAT IMPLICATE CULEX TARSALIS AS THE PRIMARY VECTOR OF WEST NILE VIRUS TRANSMISSION

Brendan M. Dunphy, Kristofer B. Kovach, Ryan C. Smith
Iowa State University, Ames, IA, United States

10:45 a.m. **64**

MOSQUITO IMMUNITY BEFORE AND AFTER METAMORPHOSIS: EVIDENCE OF ADAPTIVE DECOUPLING IN ANOPHELES GAMBIAE

Garrett P. League, Tania Y. Estévez-Lao, Yan Yan, Valeria A. Garcia-Lopez, Julián F. Hillyer
Vanderbilt University, Nashville, TN, United States

11 a.m. **65**

USING MOBILE PHONES AS ACOUSTIC SENSORS FOR HIGH-THROUGHPUT SURVEILLANCE OF MOSQUITO ECOLOGY

Haripriya Mukundarajan, Felix Hol, Erica Castillo, Cooper Newby, Manu Prakash
Stanford University, Stanford, CA, United States

11:15 a.m. **66**

INTERROGATION OF THE SEASONAL MICROBIOME OF ANOPHELES COLUZZII IN MALI

Benjamin J. Krajačich¹, Diana L. Huestis¹, Adama Dao², Alpha S. Yaro², Moussa Diallo², Asha Krishna¹, Jiannong Xu³, Tovi Lehmann¹
¹National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²ICER Mali, Bamako, Mali, ³New Mexico State University, Las Cruces, NM, United States

11:30 a.m. **67**

LARVAL BREEDING WATER: MICROORGANISMAL HETEROGENEITIES EFFECTS ON ADULT VECTOR COMPETENCE OF HUMAN PATHOGENS AND IMMUNITY

Jenny S. Carlson, Yessenia Anglero-Rodriguez, George Dimopoulos
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:45 a.m. **68**

NORTHERN RANGE EXPANSION OF THE ASIAN TIGER MOSQUITO (AEDES ALBOPICTUS): ANALYSIS OF MOSQUITO DATA FROM CONNECTICUT, USA

Philip Armstrong, Theodore G. Andreadis, John J. Shepard, Michael C. Thomas
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

Scientific Session 22

Dengue: Pathogenesis/Immunology

Convention Center - Room 327/328/329 (Level 300)
Monday, November 6, 10:15 a.m. - Noon

CHAIR

Eva Harris
University of California Berkeley, Berkeley, CA, United States

Rajendra Raut
University of North Carolina Chapel Hill, Chapel Hill, NC, United States

10:15 a.m.

69

DENGUE VIRUS IN PATIENTS DIFFERS FROM CELL CULTURE DERIVED VIRUS

Rajendra Raut¹, Kizzimekia S. Corbett¹, Aruna D. De Silva², Ananda Wijewickrama³, Aravinda M. de Silva¹

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States,

²Genetech Research Institute, Colombo, Sri Lanka, ³National Institute of Infectious Diseases, Gothatuwa, Sri Lanka

10:30 a.m.

70

EVOLUTION OF B CELL RESPONSE IN PRIMARY DENGUE INFECTION

Huy A. Tu¹, Usha K. Nivarthi², Daniel Emerling³, Douglas G. Widman⁴, Ralph S. Baric⁴, Kristen K. Pierce¹, Stephen S. Whitehead⁵, Beth D. Kirkpatrick¹, Anna P. Durbin⁶, Aravinda M. de Silva², Sean A. Diehl¹

¹Department of Medicine-Infectious Diseases and Vaccine Testing Center, University of Vermont, Burlington, VT, United States, ²Department of Microbiology and Immunology, University of North Carolina School of Medicine, Chapel Hill, NC, United States, ³Atreca, Palo Alto, CA, United States, ⁴Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC, United States, ⁵National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁶Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

10:45 a.m.

71

DENGUE VIRUS NS1-INDUCED ENDOTHELIAL CELL-INTRINSIC VASCULAR LEAK IS INDEPENDENT OF INFLAMMATORY CYTOKINES BUT DEPENDENT ON ENDOTHELIAL GLYCOCALYX INTEGRITY

Dustin Glasner, Kalani Ratnasiri, Henry Puerta-Guardo, P. Robert Beatty, Eva Harris

Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

11 a.m.

72

FLAVIVIRUS NONSTRUCTURAL PROTEIN 1 MODULATES ENDOTHELIAL PERMEABILITY AND VASCULAR LEAK IN A TISSUE- AND DISEASE-SPECIFIC MANNER

Henry Puerta-Guardo, Dustin Glasner, Milena Dimitrova, Kalani Ratnasiri, Diego Espinosa, Eva Harris

Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States

11:15 a.m.

73

MAPPING THE TARGET EPITOPES OF THE TYPE SPECIFIC ANTIBODY RESPONSES INDUCED BY A LIVE-ATTENUATED DENGUE VACCINE

Jesica A. Swanstrom¹, Usha K. Nivarthi¹, Matt J. Delacruz¹, Anna P. Durbin², Stephen S. Whitehead³, Aravinda M. de Silva¹, Ralph S. Baric¹

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States,

²Johns Hopkins Bloomberg School of Public Health, Department of International Health, Baltimore, MD, United States, ³Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

11:30 a.m.

74

THE EARLY PLASMABLAST DERIVED ANTIBODY RESPONSE TO PRIMARY DENGUE VIRUS INFECTION

Usha Nivarthi¹, Bhumi Patel¹, Matt Delacruz¹, Anna Durbin², Steve Whitehead³, Ralph Baric¹, Sean Diehl⁴, Daniel Emerling⁵, Aravinda Desilva¹

¹University of North Carolina, Chapel Hill, NC, United States, ²Johns Hopkins

Bloomberg School of Public Health, Baltimore, MD, United States, ³Laboratory of Infectious Diseases, Bethesda, MD, United States, ⁴The University of Vermont, Burlington, VT, United States, ⁵Atreca Inc., San Francisco, CA, United States

11:45 a.m.

75

USE OF STRUCTURAL EQUATION MODELS TO PREDICT DENGUE ILLNESS PHENOTYPE

Sangshin Park¹, Anon Srikiatkachorn², Siripen Kalayanaroj³, Louis Macareo⁴, Sharone Green⁵, Jennifer F. Friedman¹, Alan L. Rothman²

¹Brown University, Providence, RI, United States, ²University of Rhode Island, Providence, RI, United States, ³Queen Sirikit National Institute of Child Health, Bangkok, Thailand, ⁴Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁵University of Massachusetts Medical School, Worcester, MA, United States

Scientific Session 23

Water, Sanitation, Hygiene and Environmental Health I

Convention Center - Room 331/332 (Level 300)

Monday, November 6, 10:15 a.m. - Noon

CHAIR

Velma Lopez

University of Michigan, Ann Arbor, MI, United States

Kojo Yeboah-Antwi

Boston University School of Public Health, Center for International Health and Development, Boston, MA, United States

10:15 a.m.

76

EFFECTIVENESS OF A COMBINED HOUSEHOLD-LEVEL PIPED WATER AND SANITATION INTERVENTION IN RURAL ODISHA, INDIA ON HEALTH: A MATCHED COHORT STUDY

Heather Reese¹, Parimita Routray², Sheela Sinharoy¹, Belen Torondel², Howard Chang¹, Thomas Clasen¹

¹Emory University, Atlanta, GA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom

10:30 a.m.

77

PREVALENCE AND ETIOLOGY OF ENTERIC INFECTIONS AMONG CHILDREN SHARING SANITATION IN LOW-INCOME NEIGHBORHOODS OF MAPUTO, MOZAMBIQUE: BASELINE DATA FROM THE MAPSAN TRIAL

Jacqueline Knee¹, Trent Sumner¹, Oliver Cumming², Rassul Nala³, Joseph Brown¹

¹Georgia Institute of Technology, Atlanta, GA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Ministry of Health, Maputo, Mozambique

10:45 a.m.

78

EFFECT OF A SANITATION INTERVENTION ON SOIL-TRANSMITTED HELMINTH PREVALENCE AND CONCENTRATION IN HOUSEHOLD SOIL: A CLUSTER-RANDOMIZED CONTROLLED TRIAL

Lauren Steinbaum¹, John Mboya², Ryan Mahoney³, Jared Otuke², Sammy Njenga⁴, Clair Null³, Amy Pickering¹

¹Stanford University, Stanford, CA, United States, ²Innovations for Poverty Action, Nairobi, Kenya, ³Innovations for Poverty Action, New Haven, CT, United States, ⁴Kenya Medical Research Institute, Nairobi, Kenya

11 a.m.

79

SCHISTOSOMIASIS COUNTRYWIDE ASSESSMENT IN UGANDA: A NEGLECTED TROPICAL DISEASE OF CONCERN FOR WATER, SANITATION AND HYGIENE PRACTITIONERS

Natalie G. Exum¹, Alexandra Shannon¹, Fredrick E. Makumbi², Simon P. Kibira², John Ssempebwa², Edridah M. Tukahebwa³, Kellogg J. Schwab¹
¹Johns Hopkins University, Baltimore, MD, United States, ²Makerere University, Kampala, Uganda, ³Vector Control Division, Ministry of Health, Kampala, Uganda

11:15 a.m.

80

IMPACT OF IMPROVED SANITATION AND HYGIENE ON STUNTING IN RURAL ZAMBIA

Kojo Yeboah-Antwi, William Macleod, Godfrey Biemba, Davidson Hamer
Center for Global Health and Development, Boston, MA, United States

11:30 a.m.

81

THE ASSOCIATION BETWEEN FECAL CONTAMINATION AND ENVIRONMENTAL ANTIBIOTIC RESISTANCE IN RURAL BRAZIL

Patricia S. Bartley¹, Vanessa T. Moretto², Luciano K. Silva², Soraia M. Cordeiro³, Mitermayer G. Reis², Ronald E. Blanton¹, Lucio M. Barbosa⁴
¹Case Western Reserve University, Cleveland, OH, United States, ²Gonçalo Moniz Research Center, Oswaldo Cruz Foundation, Salvador, Brazil, ³Federal University of Bahia School of Pharmacy, Salvador, Brazil, ⁴Bahiana School of Medicine and Public Health, Salvador, Brazil

11:45 a.m.

82

IDENTIFYING ROBUST PROXY VARIABLES OF LATRINE USE: EXAMINING ACCESS TO IMPROVED SANITATION AS A PROXY

Velma Lopez, Philippa Clarke, Brady West, Joseph Eisenberg
University of Michigan, Ann Arbor, MI, United States

Scientific Session 24

Protozoa

Convention Center - Room 337/338 (Level 300)

Monday, November 6, 10:15 a.m. - Noon

CHAIR

Rojelio Mejia
Baylor College of Medicine, Houston, TX, United States

Adam Sateriale
University of Georgia, Athens, GA, United States

10:15 a.m.

83

LONGITUDINAL IMPACT OF INTESTINAL PARASITES ON MICROBIOME DIVERSITY AND METAGENOMIC CHANGES IN CHILDREN FROM ECUADOR AND ARGENTINA

Rojelio Mejia¹, Rubén Cimino², Ashish Damania¹, Rebecca Jeun¹, Patricia E. Bryan¹, Paola Vargas³, Alejandro Krolwiecki³, Philip Cooper⁴, Barton Slatko⁵
¹Baylor College of Medicine, Houston, TX, United States, ²Universidad Nacional de Salta Argentina, Salta, Argentina, ³Universidad Nacional de Salta, Salta, Argentina, ⁴Universidad Internacional De Ecuador, Quito, Ecuador, ⁵New England BioLabs, Inc., Ipswich, MA, United States

10:30 a.m.

84

A NATURAL MOUSE MODEL FOR CRYPTOSPORIDIOSIS

Adam Sateriale¹, Jan Slapeta², Rodrigo Baptista¹, Jessica Kissinger¹, Carrie Brooks¹, Gillian Herbert¹, Ravi Pulusu¹, Boris Striepen¹
¹University of Georgia, Athens, GA, United States, ²University of Sydney, Sydney, Australia

(ACMCIP Abstract)

10:45 a.m.

85

CAREGIVERS AS A POTENTIAL SOURCE OF CRYPTOSPORIDIUM INFECTION IN KENYAN CHILDREN

Patricia B. Pavlinac¹, Heidi K. Hillesland¹, Carol A. Gilchrist², Jaqueline M. Naulikha³, Christine J. McGrath¹, Doreen Rwigy³, Wesley C. Van Voorhis¹, Benson O. Singa³, Judd L. Walson¹
¹University of Washington, Seattle, WA, United States, ²University of Virginia, Charlottesville, VA, United States, ³Kenya Medical Research Institute, Nairobi, Kenya

11 a.m.

86

NEW COMPOUND SERIES WITH POTENT AND SELECTIVE ACTIVITY AGAINST G. DUODENALIS

Tina S. Skinner-Adams¹, Christopher Hart¹, Andrew Riches², Jack Ryan², Katherine Andrews¹
¹Griffith University, Brisbane, Australia, ²Commonwealth Scientific and Industrial Research Organization, Clayton, Australia

11:15 a.m.

87

HOUSEHOLD TRANSMISSION OF CRYPTOSPORIDIOSIS IN BANGLADESH

Poonum Korpe¹, Carol Gilchrist², Shahnawaz Ahmed³, Emtiaz Ahmed³, Cecelia Burkley⁴, Masud Alam³, Mamun Kabir², Tuhinur Arju³, William A. Petri, Jr.², Rashidul Haque³, A.S.G. Faruque³, Priya Duggal¹
¹Johns Hopkins University, Baltimore, MD, United States, ²University of Virginia, Charlottesville, VA, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴University of Virginia, Charlottesville, VA, United States

11:30 a.m.

88

SEASONAL VARIATION OF CRYPTOSPORIDIUM GENOTYPES IN BANGLADESH

Cecelia G. Burkley¹, Carol A. Gilchrist¹, Poonum S. Korpe², Priya Duggal², Emtiaz Ahmed³, Mamun Kabir³, Rashidul Haque³, William A. Petri¹
¹University of Virginia, Charlottesville, VA, United States, ²Johns Hopkins University, Baltimore, MD, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

11:45 a.m.

89

DEVELOPMENT OF DRUG CANDIDATES FOR CRYPTOSPORIDIOSIS TARGETING THE CRYPTOSPORIDIUM METHIONYL-TRNA SYNTHETASE

Frederick S. Buckner¹, Ranae M. Ranade¹, Matthew A. Hulverson¹, Zhongsheng Zhang¹, Wenlin Huang¹, Sayaka Shibata¹, Ryan Choi¹, Rajiv S. Juman², Peter Miller², Christophe L. Verlinde¹, Wim G. Hol¹, Christopher D. Huston², Robert K. Choy³, Eugenio L. de Hostos³, Erkang Fan¹
¹University of Washington, Seattle, WA, United States, ²University of Vermont, Burlington, VT, United States, ³PATH, San Francisco, CA, United States

(ACMCIP Abstract)

Monday
November 6

Symposium 25

STH Control Beyond School-Based Targeted Deworming: Evidence of the Additional Benefits of Community-Based Mass Chemotherapy

Convention Center - Room 339/340 (Level 300)

Monday, November 6, 10:15 a.m. - Noon

Soil transmitted helminth (STH) infections are a global health problem. The current strategy for control of STH being implemented in most endemic countries is school-based targeted drug treatment of school-age children (SAC), as children are more susceptible to serious and lasting morbidity/sequelae resulting from helminth infection. Recent modeling has raised questions about school-based deworming, demonstrating its limited impact on community health and, importantly, STH transmission. This is contrary to the currently accepted idea that adults benefit from school-based deworming as a result of its impact on the overall intensity of transmission within the population. Furthermore, a recent systematic review and meta-analysis suggests that community-based mass drug administration results in a bigger prevalence reduction in children than school-based drug administration targeted to SAC alone, for both *Ascaris* and hookworm species. This symposium will include experts in the field of STH control who will present findings from experimental and modelling studies that aim to establish evidence to determine the benefits of community mass deworming for STH control, in order to achieve long-term, sustainable reductions in the burden of these parasites and potentially elimination. The symposium will focus on three deworming trials in various stages – the TUMIKIA study (Kenya), DeWorm3 (Benin, India, Malawi) and (S)WASH-D for WORMS (East Timor) as well as on mathematical modelling evidence.

CHAIR

Alison Bettis

London Centre for Neglected Tropical Disease Research, London, United Kingdom

Susana Nery

Australian National University, Acton, Australia

10:15 a.m.

INVESTIGATING SCHOOL- AND COMMUNITY-BASED INTEGRATED CONTROL PROGRAMS FOR SOIL-TRANSMITTED HELMINTHS IN TIMOR-LESTE: THE (S) WASH-D FOR WORMS PILOT STUDY

Susana Nery

Australian National University, Acton, Australia

10:35 a.m.

EXAMINING THE FEASIBILITY OF INTERRUPTING STH TRANSMISSION ON A GLOBAL SCALE: THE DEWORM3 PROJECT

Judd Walson

University of Washington, Seattle, WA, United States

10:55 a.m.

THE TUMIKIA STUDY: A CLUSTER RANDOMIZED TRIAL EVALUATING ALTERNATIVE TREATMENT STRATEGIES AND DELIVERY STRATEGIES FOR STH IN KENYA

Rachel Pullan

London School of Hygiene & Tropical Medicine, London, United Kingdom

11:15 a.m.

UNDERSTANDING THE SHORT-TERM AND LONG-TERM IMPACT OF DEWORMING AND ON STH TRANSMISSION USING MATHEMATICAL MODELLING

Roy Anderson

Imperial College London, London, United Kingdom

Scientific Session 26

Global Health: Burden, Epidemiology and Prevention of Febrile Illness and Malaria

Convention Center - Room 341/342 (Level 300)

Monday, November 6, 10:15 a.m. - Noon

CHAIR

Hannah Koenker

JHUCCP, Baltimore, MD, United States

Richard Reithinger

RTI International, Washington, DC, United States

10:15 a.m.

90

SCOPING REVIEW ON IDENTIFYING GLOBAL KNOWLEDGE GAPS IN ACUTE FEBRILE ILLNESS SURVEILLANCE

Chulwoo Rhee¹, Grishma Kharod¹, Nathan Furukawa², Nicolas Schaad¹, Neil M. Vora¹, John Crump³, David Blaney¹, Kevin Clarke¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Department of Medicine, University of Washington, Seattle, WA, United States,

³Division of Infectious Diseases and International Health, Duke University Medical Center, Durham, NC, United States

10:30 a.m.

91

MAPPING CHILDHOOD DIARRHEA IN AFRICA

Robert C. Reiner, Nick Graetz, Manny Garcia, Puja Rao, Jonathan Mosser, Aniruddha Deshpande, Aaron Osgood-Zimmerman, Roy Burstein, Chris Troeger, Simon Hay

University of Washington, Seattle, WA, United States

10:45 a.m.

92

ASSESSING THE NON-BIOLOGIC CONTRIBUTORS TO MORTALITY AMONG INPATIENTS WITH FEBRILE ILLNESS IN TANZANIA: A PROSPECTIVE COHORT SOCIAL BIOPSY STUDY

Michael Snavelly¹, Michael J. Maze², Charles Muiruri¹, Lilian Ngowi³, Flora Mboya³, Julia Beamesderfer⁴, Glory Makupa⁵, Anthon Mwingwa⁵, Bingileki F. Lwezaula⁶, Blandina T. Mmbaga³, Venance P. Maro⁵, John A. Crump², Jan Ostermann⁷, Matthew P. Rubach⁸

¹Duke Global Health Institute, Duke University, Durham, NC, United States,

²Centre for International Health, University of Otago, Dunedin, New Zealand,

³Kilimanjaro Christian Medical Center, Moshi, United Republic of Tanzania,

⁴University of Pennsylvania, Philadelphia, PA, United States, ⁵Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania,

⁶Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania,

⁷Arnold School of Public Health, University of South Carolina, Columbia, SC, United States, ⁸Division of Infectious Diseases, Duke University Medical Center,

Durham, NC, United States

11 a.m.

93

POPULATION ACCESS TO ITN IS A BETTER INDICATOR OF 'UNIVERSAL COVERAGE' THAN HOUSEHOLD OWNERSHIP OF AT LEAST 1 ITN FOR 2 PEOPLE

Hannah Koenker¹, Albert Kilian²

¹Johns Hopkins University Center for Communication Programs, Baltimore, MD, United States, ²Tropical Health LLP, Montagu, Spain

11:15 a.m.

94

SOCIAL BEHAVIOR CHANGE COMMUNICATION AND BEDNET RETENTION, CARE, REPAIR, USE AND IMPACT IN BENIN

Andre Houtoukpe¹, Manzidatou Alao¹, Liscovich Ademikpo¹, Hilary Adjalla¹, Jean Adjidjan¹, Taylor Osborne², Martin Akogbeto³, Filemon Tokponnon⁴, Steve C. Smith⁵, Michelle Kouletio⁶, Fortune Dagnon⁶, Luis Benavente⁷

¹Medical Care Development Inc., Porto Novo, Benin, ²Medical Care Development Inc. Peace Corps Volunteer, Porto Novo, Benin, ³Center de Recherche Entomologique de Cotonou, Cotonou, Benin, ⁴Programme National de Lutte contre le Paludisme, Cotonou, Benin, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁶U.S. Agency for International Development, Cotonou, Benin, ⁷Medical Care Development Inc., Silver Spring, MD, United States

11:30 a.m.

95

EFFECTIVENESS AND SUSTAINABILITY OF A COLLABORATIVE IMPROVEMENT METHOD TO INCREASE THE QUALITY OF ROUTINE MALARIA SURVEILLANCE DATA IN KAYUNGA DISTRICT, UGANDA

Nelli Westercamp¹, Sarah Staedke², Eleanor Hutchinson², Susan Naiga³, Christine Nabirye³, Lilian Taaka³, Catherine Maiteki-Sebuguzi³, Simon P. Kigozi³, John M. Okiring³, Grant Dorsey⁴, Alexander K. Rowe¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Infectious Diseases Research Collaboration, Kampala, Uganda, ⁴University of California San Francisco, San Francisco, CA, United States

11:45 a.m.

96

ASSOCIATION BETWEEN INCREASING MALARIA CONTROL INTERVENTIONS AND REDUCTIONS IN STUNTING CHILDREN 6-59 MONTHS OF AGE: A MULTI-COUNTRY DECOMPOSITION ANALYSIS

Lia Florey, **Cameron Taylor**, Deborah Collison, Yodit Bekele, Jean de Dieu Bizimana

ICF International, Rockville, MD, United States

Scientific Session 27

Schistosomiasis and Other Trematodes: Transmission and Treatment

Convention Center - Room 343/344 (Level 300)

Monday, November 6, 10:15 a.m. - Noon

CHAIR

Philip T. LoVerde
University of Texas Health Science Center, San Antonio, TX, United States

Anna E. Phillips
Imperial College, London, United Kingdom

10:15 a.m.

97

A MAJOR LOCUS ON CHR. 1 DETERMINES CERCARIAL SHEDDING TIME IN OMANI SCHISTOSOMES

Gabriel Mouahid¹, Frédéric Chevalier², Juliette Langand¹, Mohamed A. Idris³, Salem Al Yafae⁴, Marina McDew-White², Vinay Menon², **Tim Anderson**², Hélène Moné¹

¹Université de Perpignan Via Domitia, Perpignan, France, ²Texas Biomedical Research Institute, San Antonio, TX, United States, ³Sultan Qaboos University, Muscat, Oman, ⁴Sultan Qaboos Hospital, Salalah, Oman

10:30 a.m.

98

COMPARISON OF THREE METHODS TO EVALUATE THE BURDEN OF INFECTION BY FASCIOLA HEPATICA IN SHEEP FROM AN ENDEMIC AREA

Karina Bardales¹, Luis A. Gomez-Puerta¹, Raul Enriquez¹, Cesar Sedano¹, Edinson Montoya², Saul Santivanez³, Armando E. Gonzalez¹

¹Facultad de Medicina Veterinaria, Universidad Nacional Mayor de San Marcos, Lima, Peru, ²Instituto De Ciencias Neurologicas, Lima, Peru, ³Center for Global Health, Universidad Peruana Cayetano Heredia, Lima, Peru

10:45 a.m.

99

MONITORING AND MEASURING SCHISTOSOMIASIS AT TRANSMISSION SITES IN KENYA: SENTINEL MICE COUPLED WITH GENOTYPING OF RECOVERED ADULT WORMS

Sarah K. Buddenborg¹, Martin W. Mutuku², Ibrahim N. Mwangi², Gerald M. Mkoji², Eric S. Loker¹

¹University of New Mexico, Albuquerque, NM, United States, ²Kenya Medical Research Institute, Nairobi, Kenya

11 a.m.

100

WHY DOES OXAMNIQUINE KILL SCHISTOSOMA MANSONI BUT NOT S. HAEMATOBIIUM OR S. JAPONICUM?

Anastasia Rugel¹, Alexander B. Taylor¹, Xiaohang Cao¹, Peter J. Hart¹, Stanton F. McHardy², Reid Tarpley², Frederic Chevalier³, Timothy J. Anderson³, **Philip T. LoVerde**¹

¹University of Texas Health Science Center, San Antonio, TX, United States, ²University of Texas at San Antonio, San Antonio, TX, United States, ³Texas Biomedical Research Institute, San Antonio, TX, United States

11:15 a.m.

101

IMPACT OF DIFFERENT TREATMENT STRATEGIES OVER FIVE YEARS FOR SCHISTOSOMIASIS IN MOZAMBIQUE

Anna E. Phillips¹, Pedro Gazzinelli-Guinmaraes², Oswaldo Aurelio³, Josefo Ferro⁴, Rassul Nala⁵, Neerav Dhanani¹, Alan Fenwick¹

¹Imperial College, London, United Kingdom, ²National Institute of Health, Washington, DC, United States, ³Universidade Catolica de Mocambique, Pemba, Mozambique, ⁴Universidade Catolica de Mocambique, Beira, Mozambique, ⁵Ministerio da Saude, Maputo, Mozambique

11:30 a.m.

102

CONTROLLED HUMAN INFECTION WITH SINGLE-SEX SCHISTOSOMA MANSONI CERCARIAE

Marijke Langenberg, Jacqueline Jansse, Marie-Astrid Hoogerwerf, Janneke Kos-van Oosterhoud, Arifa Ozir-Fazalakhani, Ron Hokke, Angela van Diepen, Eric Brienen, Lisette van Lieshout, Hermelijn Smits, Martha van der Beek, Pauline Meij, Richard Verbeek, Leo Visser, Maria Yazdanbakhsh, **Meta Roestenberg**
Leiden University Medical Center, Leiden, Netherlands

(ACMCIP Abstract)

11:45 a.m.

103

GENOME SCALE APPROACHES TO UNDERSTANDING THE PERSISTENCE OF SCHISTOSOMIASIS IN RESIDUAL TRANSMISSION HOTSPOTS

Elizabeth Carlton¹, Jonathan Shortt², Will Eaton¹, Yang Liu³, Bo Zhong³, Todd Castoe⁴, David Pollock²

¹Colorado School of Public Health, University of Colorado, Aurora, CO, United States, ²University of Colorado School of Medicine, Aurora, CO, United States, ³Sichuan Center for Disease Control and Prevention, Chengdu, China, ⁴University of Texas Arlington, Arlington, TX, United States

Monday
November 6

American Committee on Arthropod-Borne Viruses (ACAV) Faculty-Trainee Roundtable Discussions

Hilton – Latrobe, Peale B, Peale C, Johnson A, Johnson B (East Building, First Floor)
Monday, November 6, 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.

American Committee of Medical Entomology (ACME) Networking Lunch

Hilton - Peale A (East Building, First Floor)
Monday, November 6, Noon – 1 p.m.

An informal “meet and greet” for members of the American Committee of Medical Entomology (ACME).

Exhibit Hall Open and Light Lunch

Convention Center - Swing Hall (Level 100)
Monday, November 6, Noon - 1:45 p.m.

Poster Session 28

Poster Session A: Presentations and Light Lunch

Convention Center - Hall F and G (Level 100)
Monday, November 6, Noon - 1:45 p.m.

Poster Session A Directory

Flaviviridae – Dengue: #104 – 131
Flaviviridae – Other: #132 – 150
Viruses – Other: #151 – 163
Arthropods/Entomology – Other: #164 – 175
Mosquitoes – Insecticide Resistance and Control: #176 – 187
Mosquitoes – Molecular Genetics: #188 – 198
Mosquitoes – Vector Biology – Epidemiology: #199 – 213
Global Health: #214 – 253
Malaria – Biology and Pathogenesis: #254 – 264
Malaria – Chemotherapy and Drug Resistance: #265 – 286
Malaria – Diagnosis: #287 – 304
Malaria – Drug Development – Clinical Trials: #305 – 311
Malaria – Elimination: #312 – 328
Malaria – Epidemiology: #329 – 356
Malaria – Genetics/Genomics: #357 – 372
Malaria – Immunology: #373 – 385
Malaria – Laboratory and Technical Advances: #386 – 392
Malaria – Other: #393 – 417
Malaria – Vaccines: #418 – 430
Malaria/Mosquitoes – Field Prevention: #431 – 446
Bacteriology – Enteric Infections: #447 – 459
Bacteriology – Systemic Infections: #460 – 478
Cestodes - Echinococcosis/Hydatid Disease: #479 – 480
Cestodes – Taeniasis and Cysticercosis: #481 – 494

Clinical Tropical Medicine: #495 – 520
Helminths – Nematodes – Filariasis (Cellular and Molecular Biology): #521 – 523
Helminths – Nematodes – Filariasis (Clinical): #524 – 533
Integrated Control Measures for Neglected Tropical Diseases (NTDs): #534 – 550
Kinetoplastida – Cellular and Molecular Biology (Including *Leishmania* and Trypanosomes): #551 – 557
Kinetoplastida – Immunology (Including *Leishmania* and Trypanosomes): #558 – 561
Pneumonia, Respiratory Infections and Tuberculosis: #562 – 575
Protozoa – Ameba/*Giardia*: #576 – 582
Trematodes – Other: #583 – 584
Trematodes – Schistosomiasis – Cellular and Molecular Biology: #585 – 587
Trematodes – Schistosomiasis – Immunology: #588 – 590
Water, Sanitation, Hygiene and Environmental Health: #591 - 603

Flaviviridae – Dengue

104

POST-DENGUE ACUTE DISSEMINATED ENCEPHALOMYELITIS: A NEW CASE REPORT, SYSTEMATIC REVIEW AND META-ANALYSIS

Mohamed Gomaa Kamel¹, Nguyen Tran Nam², Nguyen Huu Bao Han³, Abd-Elaziz El-Shabouny⁴, Abd-ElRahman Mohamed Makram⁵, Tran Ngoc Dang⁶, Fatma Abd-Elshahed Abd-Elhay¹, Nguyen Le Trung Hieu⁷, Kenji Hirayama⁸, Vu Thi Que Huong⁹, Trinh Huu Tung², **Nguyen Tien Huy**¹⁰

¹Faculty of Medicine, Minia University, Minia, Egypt, ²Department of Infectious Diseases, Children's Hospital No. 2, Ho Chi Minh, Vietnam, ³Department of Pediatrics, University of Medicine and Pharmacy, Ho Chi Minh, Vietnam, ⁴Kasr Al Ainy School of Medicine, Cairo University, Cairo, Egypt, ⁵Faculty of Medicine, October 6 University, Cairo, Egypt, ⁶Graduate School of Comprehensive Human Sciences, University of Tsukuba, Tsukuba, Japan, ⁷Department of Neurology, University of Medicine and Pharmacy, Ho Chi Minh, Vietnam, ⁸Department of Immunogenetics, Institute of Tropical Medicine (NEKKEN), Leading Graduate School Program, and Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, ⁹Department of Immunology and Microbiology, Pasteur Institute, Ho Chi Minh, Vietnam, ¹⁰Department of Clinical Product Development, Institute of Tropical Medicine (NEKKEN), Leading Graduate School Program, and Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan

105

SECONDARY HETEROTYPIC DENV INFECTION OF DIFFERENT DENV GENOTYPES IN MARMOSETS

Nor Azila Muhammad Azami¹, Meng Ling Moi², Yasushi Ami³, Yuriko Suzaki³, Masayuki Saijo⁴, Tomohiko Takasaki⁵, Ichiro Kurane⁶

¹Graduate School of Comprehensive Human Sciences, University of Tsukuba, Tsukuba, Japan, ²Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan, ³Division of Experimental Animal Research, National Institute of Infectious Disease, Tokyo, Japan, ⁴Department of Virology 1, National Institute of Infectious Diseases, Tokyo, Japan, ⁵Kanagawa Prefectural Institute of Public Health, Kanagawa, Japan, ⁶National Institute of Infectious Diseases, Tokyo, Japan

106

TRANSIENT MONOCYTOSIS SUBJUGATES LOW PLATELET COUNT IN ADULT DENGUE PATIENTS

Jih-Jin Tsai¹, Jung-San Chang¹, Ko Chang¹, Po-Chih Chen¹, Li-Teh Liu², Tzu-Chuan Ho³, Sia Seng Tan³, Yu-Wen Chien⁴, Yu-Chih Lo⁵, Guey Chuen Perng⁶
¹Kaohsiung Medical University Hospital, Kaohsiung, Taiwan, ²Department of Medical Laboratory Science and Biotechnology, College of Medicine and

Life Science, Chung-Hwa University of Medical Technology, Tainan, Taiwan, ³Microbiology and Immunology and I Public Health, College of Medicine, National Cheng Kung University, Tainan, Taiwan, ⁴Public Health, College of Medicine, National Cheng Kung University, Tainan, Taiwan, ⁵Department of Biotechnology and Bioindustry Sciences, College of Bioscience and Biotechnology, National Cheng Kung University, Tainan, Taiwan, ⁶Center of Infectious Disease and Signaling Research, National Cheng Kung University, Tainan, Taiwan

107

HOUSEHOLD COSTS OF HOSPITALIZED DENGUE ILLNESS IN SEMI-RURAL THAILAND

Yesim Tozan¹, Pitcha Ratanawong², Annelies Wilder-Smith³, Pattamaporn Kittayapong⁴

¹New York University College of Global Public Health, New York, NY, United States, ²Institute of Public Health, Heidelberg University Medical School, Heidelberg, Germany, ³Epidemiology and Global Health, Department of Public Health and Clinical Medicine, Umeå University, Umeå, Sweden, ⁴Center of Excellence for Vectors and Vector-Borne Diseases and Department of Biology, Faculty of Science, Mahidol University, Bangkok, Thailand

108

PHENOTYPES OF STEM AND PROGENITOR CELLS ACCOUNTING FOR THE ACUTE AND PERSISTENT INFECTION OF DENGUE VIRUS

Amrita Vats

National Cheng Kung University, Tainan, Taiwan

109

SEASONALITY OF ARBOVIRAL ILLNESS IN RURAL ECUADOR: 2009-2016

Rachel J. Sippy¹, Diego Herrera², David Gaus², Ronald Gangnon¹, Jorge Osorio¹, Jonathan Patz¹

¹University of Wisconsin Madison, Madison, WI, United States, ²Salud y Desarrollo Andino, Pedro Vicente Maldonado, Ecuador

110

FIRST REPORT OF COMPLETE GENOME ANALYSIS OF NEUROTROPIC DENGUE VIRUS SEROTYPE 3 ISOLATED FROM THE CEREBROSPINAL FLUID OF AN ENCEPHALITIS PATIENT

Rama Dhenni¹, Nina D. Putri², Mulya R. Karyanti², Benediktus Yohan¹, Frilasita A. Yudhaputri¹, Chairin N. Ma'roef¹, Araniy Fadhilah¹, Aditya Perkasa¹, Restuadi Swatanto¹, Hidayat Trimarsanto¹, Jeremy P. Lederemann³, Ann M. Powers³, Khin S. Myint¹, R. Tedjo Sasmono¹

¹Eijkman Institute for Molecular Biology, Jakarta, Indonesia, ²DR. Cipto Mangunkusomo National Central Hospital, Medical Faculty University of Indonesia, Jakarta, Indonesia, ³Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States

111

HUMAN MONOCLONAL ANTIBODIES AGAINST DENGUE VIRUSES: REVEALS FROM A NOVEL ASSAY

Trung Vu¹, Bridget Wills¹, Lauren Carrington¹, Cameron Simmons²

¹Oxford University Clinical Research Unit, Ho Chi Minh, Vietnam, ²Department of Microbiology and Immunology, University of Melbourne, Melbourne, Australia

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DENGUE AS A RURAL DISEASE? FINDINGS FROM A HOUSEHOLD STUDY IN KAMPHAENG PHET, THAILAND

Philip V. Bystrom¹, Katie B. Anderson¹, Darunee Buddhari², Alan L. Rothman³, Alden L. Weg², Damon W. Ellison², Louis R. Macareo², Timothy P. Endy⁴

¹University of Minnesota Medical School, Minneapolis, MN, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³University of Rhode Island, Kingston, RI, United States, ⁴State University of New York, Albany, NY, United States

113

IPS CELL DERIVED DENDRITIC CELL LIKE CELL IS INFECTED WITH DENGUE VIRUS AND ACTS AS ANTIGEN PRESENTING CELL

Manh H. Dao¹, Shusaku Mizukami², Muhareva Raekiansyah³, Shyam Prakash Dumre¹, Satoru Senju⁴, Yasuharu Nishimura⁴, Juntra Karbwang², Kouichi Morita³, Kenji Hirayama¹

¹Department of Immunogenetics, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan, ²Department of Clinical Product Development, NEKKEN, Nagasaki University, Nagasaki, Japan, ³Department of Virology, NEKKEN, Nagasaki University, Nagasaki, Japan, ⁴Department of Immunogenetics, Kumamoto University Graduate School of Medical Sciences, Kumamoto, Japan

114

PREVALENCE AND BURDEN OF DENGUE IN EUROPE: A SYSTEMATIC REVIEW AND META-ANALYSIS

Ali Mahmoud Ahmed¹, Mohammed Khattab¹, Thao Thanh Vu², Abdelrahman Tarek Mohammed¹, Mohamed Fahmy Doheim³, Ahmed Ashraf Mohamed¹, Mai Mahmoud Abdelhamed⁴, Bahaa eldin Shamandy⁵, Mahmoud Tamer Dawod⁶, Wafaa Ali Alesaei⁷, Mahmoud Attia Kassem⁸, Omar Mohamed Mattar⁹, Safya Mohamed Al-agery¹, Kenji Hirayama¹⁰, Nguyen Tien Huy¹⁰

¹Faculty of Medicine, Al-Azhar University, Cairo, Egypt, ²School of Health and Biomedical Sciences, RMIT University, Victoria, Australia, ³Faculty of Medicine, Alexandria University, Alexandria, Egypt, ⁴Faculty of Medicine, Tanta University, El-Gharbiya, Egypt, ⁵Faculty of Medicine, Aswan University, Aswan, Egypt, ⁶Faculty of Medicine, Zagazig University, El-sharkia, Egypt, ⁷Faculty of Medicine, Misr University for Science and Technology, Giza, Egypt, ⁸The Ohio State University Wexner Medical Center, Columbus, OH, United States, ⁹Kasr Alainy Faculty of Medicine, Cairo University, Cairo, Egypt, ¹⁰Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan

115

A COMPARISON OF RAPID AND STANDARD DIAGNOSTIC ASSAY EFFICACY FOR THE DETECTION OF DENGUE VIRUS

Elyse N. Grossi-Soyster¹, Amy R. Krystosik¹, Jael Sagina², Samuel G. Kimaru², Francis M. Mutuku³, A. Desiree LaBeaud¹

¹Stanford University School of Medicine, Pediatrics Infectious Disease, Stanford, CA, United States, ²Vector Borne Disease Control Unit, Msambweni, Kenya, ³Technical University of Mombasa, Department of Environmental and Health Sciences, Mombasa, Kenya

(ACMCIP Abstract)

116

IL-10 PROTECTS THE BLOOD-BRAIN BARRIER AGAINST LEAKAGE INDUCED BY SERUM FROM DENGUE PATIENTS

Jael Miranda¹, Esteban Munoz², Martha Medina³, Clara Santacruz², Cesar Gonzalez², Joaquin Gonzalez², Lorenza Gonzalez-Mariscal¹, Juan E. Ludert¹

¹Center for Research and Advanced Studies, Mexico City, Mexico, ²Central Laboratory of Epidemiology, Mexican Social Security Institute, Mexico City, Mexico, ³State Public Health Laboratory, Health Services of the State Government of Yucatan, Yucatan, Mexico

117

THERAPEUTIC POTENTIAL OF INTERFERON- α AND RIBAVIRIN AS COMBINATION THERAPY AGAINST DENGUE VIRUS IN DIFFERENT CELL LINES

Camilly P. Pires de Mello, George L. Drusano, Justin J. Pomeroy, Evelyn J.

Franco, Jaime L. Rodriguez, Ashley N. Brown
University of Florida, Orlando, FL, United States

118

ASSESSING DENGUE VIRUS-INDUCED CHANGES IN GENE EXPRESSION PROFILES VIA RIBOSOME PROFILING

Diana S. Juarez¹, Antón Vila-Sanjurjo², Mariana Leguia¹

¹U.S. Naval Medical Research Unit-6, Lima, Peru, ²Universidad de A Coruña, A Coruña, Spain

119**THE PHYLOGEOGRAPHY AND PHYLODYNAMICS OF THE DENV-2 AMERICAN-ASIAN GENOTYPE IN PERU****Cristopher D. Cruz**¹, Milena Alba¹, Amy Morrison¹, Christopher Mores¹, Simon Pollett², Mariana Leguia¹¹Naval Medical Research Unit-6, Callao, Peru, ²Viral Diseases Branch, Walter Reed Army Institute of Research, Silver Spring, MD, United States

120**DENGUE AND OTHER ARBOVIRUSES IDENTIFIED IN RESPIRATORY SPECIMENS OF UNKNOWN ETIOLOGY****Gilda Troncos**, Alejandra Garcia, Jane Rios, Christopher Mores, Mariana Leguia
U.S. Naval Medical Research Unit-6, Callao, Peru

121**MODIFIED ELISPOT FOR THE ANALYSIS OF SPECIFIC AND CROSS-REACTIVE DENGUE VIRUS AND ZIKA VIRUS MEMORY B CELLS****Awadalkareem Adam**, Marcia Woda, Alan L. Rothman, Anuja Mathew
Institute for Immunology and Informatics, University of Rhode Island, Providence, RI, United States

122**THE EFFECT OF GARLIC IN REDUCING INFLAMMATION IN DENGUE INFECTION****Andrea J. Troupin**¹, Alex Hall¹, Berlin Londono-Renteria², Nicholas Dopkins¹, Tonya M. Colpitts¹¹University of South Carolina, Columbia, SC, United States, ²Kansas State University, Manhattan, KS, United States

123**CHARACTERIZATION OF *IN VIVO* T CELL ACTIVATION DURING ACUTE DENGUE ILLNESS****Kirk Haltaufderhyde**¹, Anon Srikiatkachorn¹, Sharon Green², Louis Macareo³, Anuja Mathew¹, Alan Rothman¹¹University of Rhode Island, Providence, RI, United States, ²University of Massachusetts, Worcester, MA, United States, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

124**PRE-EXISTING ANTI-DENGUE VIRUS ANTIBODY TITER PREDICTS SEVERITY OF DENGUE DISEASE IN A PEDIATRIC COHORT IN NICARAGUA: A CASE-CONTROL AND LONGITUDINAL STUDY****Leah C. Katzelnick**¹, Lionel Gresh², M. Elizabeth Halloran³, Juan Carlos Mercado⁴, Guillermina Kuan⁵, Aubree Gordon⁶, Angel Balmaseda⁴, Eva Harris¹¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Sustainable Sciences Institute, Managua, Nicaragua, ³Department of Biostatistics, University of Washington, Seattle, WA, United States, ⁴Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, ⁵Centro de Salud Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua, ⁶Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States

125**USING CARTOGRAPHY TO DEFINE ANTIGENIC RELATIONSHIP AMONG DENGUE VIRUSES (DENV) IMPORTED BY TRAVELERS****Kritu Panta**¹, Timo Ernst¹, Suzi McCarthy², Kara Imbrogno¹, David Smith², Allison Imrie¹¹The University of Western Australia, Perth, Australia, ²Pathwest Laboratory Medicine WA, Perth, Australia

126**USE OF NEEDLE-FREE JET INJECTION AND ELECTROPORATION TO ENHANCE THE IMMUNOGENICITY OF A TETRAVALENT DENGUE DNA VACCINE****Kanakatte Raviprakash**¹, Daniel F. Ewing¹, Maria Blevins², Peifang Sun¹, Kevin R. Porter¹, John W. Sanders², **Maya Williams**¹¹Naval Medical Research Center, Silver Spring, MD, United States, ²Wake Forest University School of Medicine, Winston-Salem, NC, United States

127**DEVELOPMENT AND VALIDATION OF CLINICAL ALGORITHMS FOR THE DIAGNOSIS OF DENGUE IN ENDEMIC AREAS OF COLOMBIA****Diana Caicedo**¹, Andrés Méndez¹, Rafael Tovar¹, Jairo Celis², Liliana Villegas², Constanza Collazos², Lyda Osorio¹¹University of Valle, Cali, Colombia, ²Comfandi, Cali, Colombia

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129**COMPARISON OF ACTIVE AND PASSIVE SURVEILLANCE SYSTEMS FOR DENGUE FEVER IN MACHALA, ECUADOR IN 2014 AND 2015****Melissa Vitale**, Aileen Kenneson-Adams, Christina D. Lupone, Paula F. Rosenbaum, Jefferson Adrian, Anna M. Stewart

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131**MUTAGENESIS OF DENGUE VIRUS ENVELOPE PROTEINS TO MAP ANTIBODY EPITOPES AND IDENTIFY RESIDUES ESSENTIAL FOR FUNCTION****Jennifer M. Pfaff**, Srikar Reddy, Edgar Davidson, **Benjamin J. Doranz**
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Natalia Rodríguez-Valero¹, María Jesús Pinazo¹, Ana Requena-Méndez¹, Jara Llenas-García¹, Adela Saco³, Paola Castillo³, Marina Fuente-Moreno¹, Aina Casellas¹, Raquel González¹, José Muñoz¹, Joaquim Gascón¹, Jaume Ordi¹, Clara Menéndez¹, Azucena Bardaji¹

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MOLECULAR EVIDENCE FOR *PLASMODIUM FALCIPARUM* RESISTANCE TO SULFADOXINE-PYRIMETHAMINE BUT ABSENCE OF K13 MUTATIONS IN MANGALORE, SOUTHERN INDIA

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SPREAD OF ARTEMISININ RESISTANT *PLASMODIUM FALCIPARUM* IN FIVE SOUTHERN PROVINCES OF LAO PDR IN 2015-2016

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IMPROVING METHODS FOR SURVEILLANCE OF ANTIMALARIAL DRUG RESISTANCE: AN ASSESSMENT OF THE CURRENT LANDSCAPE

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RETURN OF CHLOROQUINE SENSITIVE *PLASMODIUM FALCIPARUM* MALARIA OF MUTASA DISTRICT, ZIMBABWE

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PERFORMANCE OF PFHRP-2 BASED RDT MALARIA DIAGNOSTIC TESTS IN RURAL ZIMBABWE

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CASE REPORT: RECURRENT FALCIPARUM MALARIA IN A COMMUNITY HOSPITAL IN NEW YORK

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ESTABLISHMENT OF THE MAJOR SUBCLINICAL SYMPTOMS ASSOCIATED WITH MALARIA IN OWERRI SOUTHEASTERN NIGERIA

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HIGH-THROUGHPUT SCREENING OF *P. FALCIPARUM* HRP2 DELETION FOR MONITORING OF RDT EFFICACY FOR MALARIA DIAGNOSIS

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FIELD EVALUATION OF SELEXON MALARIA ANTIGEN *PLASMODIUM FALCIPARUM* SYSTEM FOR MALARIA DIAGNOSIS IN WESTERN KENYA

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DETECTION OF MALARIA GAMETOCYTES CARRIAGE IN KISUMU COUNTY, WESTERN KENYA FOR DETERMINATION OF TRANSMISSION DYNAMICS

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LUMINEX-BASED QUANTIFICATION OF *PLASMODIUM SP* HRP2 AND PLDH IN *PLASMODIUM*-INFECTED PREGNANT WOMEN

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MULTIPLE ANTIGEN RAPID DIAGNOSTIC TESTS FOR THE DIAGNOSIS OF SEVERE MALARIA IN HIGH-TRANSMISSION, RESOURCE-LIMITED SETTINGS

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IMPROVED POINT-OF-CARE TESTING FOR THE DETECTION OF INFECTION WITH MALARIA PARASITES DURING PREGNANCY IN BUSIA, UGANDA

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AN ULTRASENSITIVE LOOP MEDIATED ISOTHERMAL AMPLIFICATION (US-LAMP) METHOD FOR DIAGNOSIS AND SURVEILLANCE OF MALARIA

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HIGH PREVALENCE OF *PLASMODIUM FALCIPARUM* HISTIDINE RICH PROTEIN 2 AND 3 GENE DELETIONS AND THEIR IMPLICATIONS FOR MALARIA DIAGNOSIS IN ETHIOPIA

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POTENTIAL BIOMARKERS OF *PLASMODIUM FALCIPARUM* INFECTIONS IN PREGNANT WOMEN: A CASE-CONTROL STUDY FROM NANORO, BURKINA FASO

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ESTABLISHMENT AND APPLICATION OF A NOVEL FIELD BASED LOOP-MEDIATED ISOTHERMAL AMPLIFICATION (LAMP) ASSAY FOR MONITORING ANTI-MALARIAL DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM*

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SCREENING FOR MALARIA IN PREGNANCY WITH RDTS BY COMMUNITY HEALTH WORKERS IN NANORO, BURKINA FASO

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LAMPREY MONOCLONAL VLR ANTIBODIES AGAINST *PLASMODIUM FALCIPARUM* HISTIDINE RICH PROTEIN-2

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ANALYTICAL SENSITIVITY OF PCR TESTS FOR OPTIMUM VIVAX MALARIA DIAGNOSIS

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INVESTIGATION OF G6PD ENZYME ACTIVITY IN NORMAL SUBJECTS FOR ENTRY INTO TAFENOQUINE CLINICAL STUDIES

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USE OF THE IMMUNO-EPIDEMIOLOGICAL BIOMARKER OF HUMAN EXPOSURE TO *ANOPHELES* BITES IN THE MONITORING OF MALARIA TRANSMISSION IN (PRE) ELIMINATION AREAS

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RISK FACTOR ASSESSMENT FOR MALARIA AMONG FOREST-GOERS IN A PRE-ELIMINATION SETTING, PHU YEN PROVINCE, VIETNAM

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TIMELINESS AND COMPLETENESS OF MALARIA CASE NOTIFICATION AND RESPONSE IN ZANZIBAR, 2013-2015

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EVALUATING PLASMODIUM HRP2 PLASMA CONCENTRATION FOR DEVELOPMENT OF HIGHLY SENSITIVE PLASMA-SPECIFIC RAPID DIAGNOSTIC TEST IN UGANDA

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UTILIZATION OF INSECTICIDE-TREATED BED NETS AMONG OVER-FIVES IN LAGOS, NIGERIA

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THE USE OF ANTIBODY MEASUREMENTS TO SUPPORT MALARIA ELIMINATION ACTIVITIES IN HAITI

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PLASMODIUM FALCIPARUM GAMETOCYTE CARRIAGE BEFORE AND AFTER TREATMENT WITH ARTEMISININ COMBINATION THERAPIES

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VULNERABILITY AND ELIMINATION OF MALARIA AND LYMPHATIC FILARIASIS IN THE DOMINICAN REPUBLIC: A NATIONWIDE BATEY SURVEY

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HARNESSING DHIS2 AND MHEALTH TOOLS TO STRENGTHEN PRIVATE SECTOR MALARIA SURVEILLANCE IN THE GREATER MEKONG SUBREGION

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EXPANDING THE ANTIMALARIAL PIPELINE: THE DISCOVERY OF PYRIMIDINEDIONES, A NEW SERIES TO CURE AND BLOCK MALARIA TRANSMISSION

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A CASE FOR INVESTMENT IN THAILAND'S MALARIA ELIMINATION PROGRAM: A COST-BENEFIT ANALYSIS STUDY

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THE IMPACT OF MASS DRUG ADMINISTRATION ON SUBMICROSCOPIC MALARIA INFECTION: A PILOT STUDY ON NGODHE ISLAND IN LAKE VICTORIA, KENYA

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EVALUATING THE EFFECTIVENESS AND FEASIBILITY OF REACTIVE TARGETED PARASITE ELIMINATION VS. REACTIVE CASE DETECTION, WITH AND WITHOUT REACTIVE VECTOR CONTROL, AS A COMMUNITY LEVEL INTERVENTION IN RESPONSE TO CONFIRMED, PASSIVELY IDENTIFIED MALARIA CASES IN ZAMBEZI REGION, NAMIBIA: PRELIMINARY RESULTS FROM A CLUSTER RANDOMIZED CONTROLLED TRIAL

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BIOMARKER DEVELOPMENT AND PRIORITIZATION OF GLOBALLY SUITABLE *PLASMODIUM FALCIPARUM* MEROZOITE-STAGE VACCINE CANDIDATE ANTIGENS

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SUBMICROSCOPIC MALARIA INFECTIONS IN PREGNANT WOMEN FROM SIX DEPARTMENTS IN HAITI

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350**WHAT PROPORTION OF PLASMODIUM FALCIPARUM AND PLASMODIUM VIVAX MALARIA INFECTIONS ARE IN MOSQUITOES?**

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Dennis W. Juma¹, Peninah Muiruri¹, Benson Singa², Grace John Stewart³, John Waitumbi¹, Krista Yuhas³, Hoseah Akala¹, Ben Andagalu¹, Matthew Brown¹, Christina Polyak³, Edwin Kamau⁴
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VARIABILITY OF MALARIA PARASITES FROM NON-HUMAN PRIMATES IN THE BRAZILIAN ATLANTIC FOREST

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SURVEILLANCE OF PFMDR1, PFATPASE SINGLE NUCLEOTIDE POLYMORPHISM (SNP) PREVALENT AMONG *PLASMODIUM FALCIPARUM* UNCOMPLICATED MALARIA CASES OF NORTHEAST INDIA (YEAR 2015) AS ANTIMALARIAL DRUG RESISTANT MARKER

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COMPARATIVE LANDSCAPE GENETICS OF *PLASMODIUM FALCIPARUM*, *ANOPHELES ARABIENSIS*, AND *AN. GAMBIAE* IN KENYA

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PREVALENCE OF HUMAN GENETIC POLYMORPHISMS ASSOCIATED WITH PROTECTION FROM MALARIA IN REGIONS OF UGANDA WITH DIFFERENT LEVELS OF MALARIA ENDEMICITY

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STATISTICAL INFERENCE OF *PLASMODIUM FALCIPARUM* TRANSMISSION NETWORKS BASED JOINTLY ON GENETIC AND EPIDEMIOLOGICAL DATA

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VAR CODE: A NEW MOLECULAR EPIDEMIOLOGY TOOL FOR MONITORING *PLASMODIUM FALCIPARUM* IN A HIGH TRANSMISSION AREA OF GHANA, WEST AFRICA

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PREREQUISITE EMERGENCE OF BACKGROUND MUTATIONS FOR *KELCH13*-RELATED ARTEMISININ-RESISTANT *PLASMODIUM FALCIPARUM* ISOLATES

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Malaria – Immunology

THE ROLE OF COMPLEMENT IN ANTIBODY-MEDIATED IMMUNITY AGAINST MALARIA IN PREGNANCY

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AN IMMUNOSUPPRESSIVE ROLE FOR LAG3 IN TR1 CELLS DURING MALARIA AND VISCERAL LEISHMANIASIS

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THE TRANSCRIPTION FACTOR T-BET SUPPRESSES GERMINAL CENTRE DEVELOPMENT AND HUMORAL IMMUNITY TO BLOOD-STAGE *PLASMODIUM* INFECTION

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NOVEL *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN VACCINE CANDIDATE ARE ASSOCIATED STRONG AND PERSISTENT NATURALLY ACQUIRED IGG AND BINDING-INHIBITORY ANTIBODIES RESPONSE, IN LONG-TERM EXPOSURE POPULATION

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MALARIA CONTROL: A REALIST REVIEW

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REDUCED MALARIA COMMODITY STOCK-OUTS AT HEALTH FACILITY LEVEL THROUGH MONTHLY SUPERVISION IN BENIN

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PROTEOMIC CHARACTERIZATION OF ERYTHROCYTE DERIVED MICROVESICLES FROM MALARIA INFECTED CHILDREN

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A NOVEL VIRUS-LIKE PARTICLE-BASED PLATFORM FOR MULTI-ANTIGEN MALARIA VACCINES

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TRUNCATION OF PFRIPR REVEALS REGION THAT INDUCES ANTIBODY WITH THE MOST POTENT GROWTH INHIBITORY ACTIVITY AGAINST *PLASMODIUM FALCIPARUM*

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PBG37 IS A POTENTIAL NOVEL MALARIA TRANSMISSION BLOCKING VACCINE CANDIDATE

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BRIDGING HISTORICAL LUMINEX® 200™ DATA WITH LUMINEX® FLEXMAP 3D™ DATA

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PRESERVING THE INTEGRITY OF EXPERIMENTAL HUMAN INFECTION MODELS BY ANALYTICAL TESTING

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CROSS SECTIONAL SURVEY OF LONG LASTING INSECTICIDETREATED BEDNET DURABILITY AND USE AMONG FISHING AND PASTORALIST COMMUNITIES, KENYA, 2015

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QUANTIFYING SEASON PATTERNS OF ITN USE ACROSS CLIMATIC ZONES IN SUB-SAHARAN AFRICA

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ANTIBIOTIC RESISTANCE OF *SALMONELLA ENTERICA* ISOLATES FROM PORK CARCASSES IN SLAUGHTERHOUSES IN LIMA, PERU

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PROJECTING THE POTENTIAL IMPACT AND COST-EFFECTIVENESS OF A DIAGNOSTIC FOR LONG-TERM CARRIAGE IN TYPHOID FEVER

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VIABILITY OF *VIBRIO CHOLERA*E ISOLATED DURING THE CHOLERA EPIDEMIC IN PERU IN 1991

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CASES OF METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS*: ASSESSING ITS RISE IN HOSPITAL AND COMMUNITY-ASSOCIATED CASES

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HIGH PREVALENCE OF SUSPECTED NOSOCOMIAL COLONIZATION WITH METHICILLIN-RESISTANT *STAPHYLOCOCCUS AUREUS* AT A TERTIARY CARE HOSPITAL IN SOUTHERN SRI LANKA

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TYPHOID FEVER OUTBREAK IN HARARE, ZIMBABWE, 2016-2017

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IMPACT OF NUTRITIONAL STATUS ON PEDIATRIC PATIENTS AGED FROM 6 TO 59 MONTH HOSPITALIZED FOR SUSPECTED INVASIVE BACTERIAL INFECTIONS AT CHU-GT, BAMAKO, MALI

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USE OF C-REACTIVE PROTEIN AND PROCALCITONIN TO TARGET ANTIBIOTIC PRESCRIPTION IN CHILDREN UNDER-FIVE WITH UNDIFFERENTIATED FEVER: RESULTS FROM A CLINICAL TRIAL IN TANZANIA

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BACK-CALCULATION OF THE INCIDENCE OF LEPROSY-RELATED IMPAIRMENT - GLOBAL PATTERNS AND FORECASTS

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DESCRIPTION OF THE LOCAL EPIDEMIOLOGY OF BACTERIAL ETIOLOGY IN CLINICAL NEONATAL SEPSIS IN RURAL SOUTHEASTERN CAMBODIA

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EXPERIMENTAL CONFIRMATION OF UNIQUE, FUNCTIONAL RICIN-B LIKE LECTIN DOMAINS IN PATHOGENIC LEPTOSPIRA

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THE DEVELOPMENT OF A DUAL-TARGET REAL-TIME PCR ASSAY FOR THE DETECTION OF BRUCELLA SPECIES

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A NOVEL DIAGNOSTIC KEY FOR LEPROSY BASED ON ARTIFICIAL INTELLIGENCE

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UNRECOGNIZED BURDEN OF LEPTOSPIROSIS IN RURAL NEPAL: EVIDENCE FROM A SERO-EPIDEMIOLOGIC SURVEY

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PATHOGENS AND THEIR SUSCEPTIBILITY TO ANTIMICROBIALS USED FOR EMPIRIC TREATMENT OF INFECTIONS

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THE BURDEN AND DISTRIBUTION OF TYPHOID FEVER IN AFRICA

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RICKETTSIAL INFECTION: AN UNEXPECTED CAUSE OF FEVER IN PATIENTS HOSPITALIZED WITH ACUTE FEBRILE ILLNESS IN INDONESIA

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CLINICAL, SEROLOGICAL AND MOLECULAR DIAGNOSIS OF TYPHOID FEVER, A SIGNIFICANT CAUSE OF ACUTE FEBRILE ILLNESS AMONG HOSPITALIZED PATIENTS IN INDONESIA FROM 2013-2016

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Cestodes - Echinococcosis/Hydatid Disease**HUMAN ECHINOCOCCOSIS: EVALUATION OF DISEASE ACTIVITY BY SEROLOGY**

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LUNG AND LIVER CYSTIC ECHINOCOCCOSIS - FACTORS ASSOCIATED WITH HEALTH-RELATED QUALITY OF LIFE AFTER SURGICAL TREATMENT

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NEUROINFLAMMATION IN NEUROCYSTICERCOSIS USING RAT ORAL INFECTION VERSUS INTRACRANIAL INFECTION

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NEUROINFLAMMATION AT DIFFERENT TIMES AFTER INFECTION WITH TAENIA SOLIUM LARVA STAGE USING RAT MODEL

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CLONING AND EXPRESSION OF THE TRYPSIN-LIKE PROTEIN TSAG5 IN AN INSECT'S CELLS EXPRESSION SYSTEM FOR ITS POTENTIAL USE IN THE IMMUNODIAGNOSTICS OF SINGLE CYST NEUROCYSTICERCOSIS

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PRODUCTION OF KIT IN HOUSE IMMUNOELECTROTRANSFER BLOT TEST WITH PURIFIED CYSTICERCUS VESICULAR FLUID ANTIGEN OF TAENIA SOLIUM MIX-NATIVE FOR DIAGNOSIS OF HUMAN CYSTICERCOSIS

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BANDING PATTERNS OF THE ENZYME-LINKED IMMUNOELECTROTRANSFER BLOT (EITB) CORRELATE WITH THE INFECTION STATUS IN PORCINE CYSTICERCOSIS

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SOCIALIZING EVIDENCE TO TRANSFORM COMMUNITY BARRIERS IN CYSTICERCOSIS PREVENTION AND SURVEILLANCE IN NORTHERN PERU

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A NOVEL MAGNETIC PARTICLE-BASED APPROACH FOR THE PURIFICATION AND CONCENTRATION OF MONOCLONAL ANTIBODIES FROM CELL CULTURE SUPERNATANT

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FIELD BASED SCREENING FOR CIRCULATING ANTIGEN IN URINE SAMPLES FOR THE DETECTION OF SEVERE FORMS OF NEUROCYSTICERCOSIS

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ANTIPARASITIC TREATMENT IN NOVEL RAT MODEL FOR NEUROCYSTICERCOSIS

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PREDICTING MORTALITY FOR ADOLESCENT AND ADULT PATIENTS WITH FEVER IN RESOURCE-LIMITED SETTINGS

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Q FEVER IN SOUTHERN CALIFORNIA, A CASE SERIES OF TWENTY-ONE PATIENTS

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ANTI-MOSQUITO SALIVA IMMUNITY, MAST CELLS AND CLINICAL PRESENTATION OF DENGUE

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CORD BLOOD MATERNAL MICROCHIMERISM PREDICTS DECREASED RISK OF NON-MALARIAL FEVER DURING CHILDHOOD

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DYING ONE WAY OR ANOTHER: AN ANALYSIS OF COMBAT AND NON-COMBAT DEATHS AMONG U.S. TROOPS IN VIETNAM, 1960-1975

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TELEPHONE ADMINISTRATION OF THE PATIENT SPECIFIC FUNCTIONAL SCALE (PSFS): A VALID, RELIABLE, AND PATIENT-REPORTED OUTCOME IN GLOBAL SNAKEBITE RESEARCH

Rebecca G. Theophanous¹, Joao R. Vissoci¹, Victoria E. Anderson², Eric J. Lavonas³, Charles J. Gerardo¹
¹Duke University Medical Center, Durham, NC, United States, ²Rocky Mountain Poison and Drug Center - Denver Health, Denver, CO, United States, ³University of Colorado School of Medicine, Aurora, CO, United States

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EVALUATING INTESTINAL PROTEINS IN *BRUGIA MALAYI* ADULT WORMS AS POTENTIAL DRUG TARGETS

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Debrah³, Jubin Osei-Mensah¹, Bettina Dubben², Sabine Mand², Yusif Mubarik¹, Arcangelo Ricchiuto², Rolf Fimmers⁴, Kelly Johnston⁵, Mark Taylor⁵, Achim Hoerauf²¹Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, ²Institute for Medical Microbiology, Immunology and Parasitology, University Hospital of Bonn, Bonn, Germany, ³Faculty of Allied Health Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁴Institute for Medical Biometry, Informatics and Epidemiology, University Hospital of Bonn, Bonn, Germany, ⁵Liverpool School of Tropical Medicine, Liverpool, United Kingdom**532****DESIGNING ANTIFILARIAL DRUG TRIALS USING CLINICAL TRIAL SIMULATORS**Martin Walker¹, Philip Milton², Frédéric Monnot³, Belén Pedrique³, Maria-Gloria Basáñez²¹Royal Veterinary College, Hatfield, United Kingdom, ²Imperial College London, London, United Kingdom, ³Drugs for Neglected Diseases initiative, Geneva, Switzerland**533****THE ADDITION OF ALBENDAZOLE TO IVERMECTIN DOES NOT REDUCE FEMALE WORM FERTILITY IN ONCHOCERCIASIS**Ute Klarmann-Schulz¹, Linda Batsa-Debrah², Jubin Osei-Mensah², Bettina Dubben¹, Kerstin Fischer³, Yusif Mubarik², Arcangelo Ricchiuto¹, Rolf Fimmers⁴, Gary J. 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540**MASS DRUG ADMINISTRATION IN CROSS-BORDER COLLABORATION: CASE OF MALIAN REFUGEES IN NIGER**Boubacar Kadri¹, Youssouf Yaye², Aichatou Alfari¹, Zakari Madougou², Zeinabou Trapsida²¹Ministry of Public Health, Niamey, Niger, ²Helen Keller International, Niamey, NigerMonday
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541**A COMMUNITY STUDY OF THE IMPACT OF SEMI-ANNUAL ALBENDAZOLE ON LYMPHATIC FILARIASIS AND SOIL-TRANSMITTED HELMINTH INFECTIONS IN THE DEMOCRATIC REPUBLIC OF THE CONGO****Sebastien D. Pion**¹, Cedric B. Chesnais¹, Pitchouna N. Awaca - Uvona², Jean Paul Tambwe², Gary J. Weil³, Michel Boussinesq¹¹Institut de recherche pour le Développement, Montpellier, France, ²Programme National de Lutte contre l'Onchocercose, Kinshasa, Democratic Republic of the Congo, ³Infectious Diseases Division, Department of Internal Medicine, Washington University School of Medicine, St. Louis, MO, United States

542**STRENGTHENING THE TRANSMISSION ASSESSMENT SURVEY FOR LYMPHATIC FILARIASIS AND ONCHOCERCIASIS IN MUHEZA DISTRICT, TANGA, TANZANIA****Maria J. Chikawe**¹, Andreas Nshala², Cecilia Uisso¹, Kimberly Won³, Katherine Gass⁴, Deus Ishengoma⁵, Upendo Mwingira¹¹National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ²IMA World Health, Dar es Salaam, United Republic of Tanzania, ³Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴NTD Support Center, Task Force for Global Health, Atlanta, GA, United States, ⁵National Institute for Medical Research, Tanga, United Republic of Tanzania

543**CHALLENGES AND PROSPECTS FOR TAKING DRUGS DURING MASS DRUG ADMINISTRATION WITH PRAZIQUANTEL AND ALBENDAZOLE: CASE OF THREE HEALTH DISTRICTS IN TILLABERI REGION, NIGER****Issa Gnadou**¹, **Issoufou Mounkaila**², Aichatou Alfari¹, Youssouf Yaye², Soumana Issifi¹, Mahaman Naroua Dogo¹, Idé Niandou¹¹Ministry of Health, Niamey, Niger, ²Helen Keller International, Niamey, Niger

544**A COMPREHENSIVE SUSTAINABILITY FRAMEWORK FOR NEGLECTED TROPICAL DISEASE ELIMINATION PROGRAMS****Irene Wangeci Thuo**, Sangeeta Mookherji*The George Washington University, Arlington, VA, United States*

545**SCHOOL AND COMMUNITY BASED DEWORMING IN KENYA: WHAT ARE THE BARRIERS AND ENABLERS FOR SUSTAINING LONG-TERM IMPLEMENTATION?****Mishal S. Khan**¹, Maria Nyikuri², Dina Balabanova¹¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²KEMRI, Nairobi, Kenya

546**EVALUATION OF SD BIOLINE ONCHO/LF IGG4 BIPLEX AND SD BIOLINE LF IGG4 SCREENING TOOLS IN FILARIAL-ENDEMIC REGIONS OF CAMEROON****Helen Storey**¹, Emily Gerth-Guyette¹, **Allison L. Golden**¹, Michael Kalnoky¹, Abdel Njouendou Jelil², Relendis Ekanya², Amuam Andrew Mbeng², Bertrand Ndzeshang², Kelsey Barrett¹, Jeffrey Wellhausen¹, Roger Peck¹, Tala de los Santos¹, Peter U. Fischer³, Samuel Wanji²¹PATH, Seattle, WA, United States, ²University of Buea, Buea, Cameroon, ³Washington University School of Medicine, St. Louis, MO, United States

547**IMPROVING MASS DRUG ADMINISTRATION PERFORMANCE USING MHEALTH: FINDINGS FROM NORTHERN NIGERIA****Sarah Bartlett**¹, Nazaradden Ibrahim²¹Sightsavers, New Orleans, LA, United States, ²Sightsavers, Kaduna, Nigeria

548**PARTNERSHIP FOR NTD ELIMINATION: THE TANZANIA FIXED OBLIGATION GRANT APPROACH WITH LOCAL GOVERNMENT AUTHORITIES****Micah Musa**¹, Ali Ngomelo², Louis Lyimo³, Romanus Juma¹, Raymond Mfugale¹, Lulseged Alemayehu⁴, Delali Bonuedi⁵, Cheri Brown⁵, Edward Kirumbi², Andreas Nshala¹, Boniphace Idindili¹, Neema Rusibamayila³, Upendo Mwingira⁶
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549**STRENGTHENING THE SUPPLY CHAIN FOR NEGLECTED TROPICAL DISEASE PREVENTIVE CHEMOTHERAPY AND TRANSMISSION CONTROL MEDICINES IN TANZANIA****Frank Komakoma**¹, Fay Venegas², William Reuben¹, Maria Chikawe³, Andreas Nshala⁴, Boniphace Idindili⁵, Sarah Craciunoiu⁶, Delali Bonuedi⁷, Jeremiah Ngondi⁷, Upendo Mwingira⁸¹Tanzania NTD Control Program, Dar es Salaam, United Republic of Tanzania, ²PATH, Seattle, WA, United States, ³Tanzania NTD Control Program, National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ⁴Tanzania NTD Control Program; IMA World Health, Dar es Salaam, United Republic of Tanzania, ⁵IMA World Health, Dar es Salaam, United Republic of Tanzania, ⁶IMA World Health, Washington, DC, United States, ⁷RTI International, Washington, DC, United States, ⁸Tanzania NTD Control Program; National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

550**SUPPORTIVE SUPERVISION FOR MASS DRUG ADMINISTRATION IN TANZANIA****Isaac Njau**¹, Andrea Nshala², Edward Kirumbi¹, Abdallah Ngenya³, Boniphace Idindili⁴, Maria Chikawe⁵, Lynsey Blair⁶, Frank Komakoma⁴, Jeremiah Ngondi⁷, Upendo Mwingira⁸¹Tanzania Neglected Tropical Diseases Control Program, Dar es Salaam, United Republic of Tanzania, ²Tanzania Neglected Tropical Diseases Control Program; IMA World Health, Dar es Salaam, United Republic of Tanzania, ³National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ⁴IMA World Health, Dar es Salaam, United Republic of Tanzania, ⁵Tanzania Neglected Tropical Diseases Control Program; National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ⁶Schistosomiasis Control Initiative, London, United Kingdom, ⁷RTI International, Washington, DC, United States

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551**DISSECTING THE ROLE AND PATHOGEN BENEFITS OF TRYPANOTHIONE SYNTHETASE OVEREXPRESSION IN *TRYPANOSOMA CRUZI*****Andrea C. Mesias**¹, Natalia Sasoni², Diego G. Arias², Nisha J. Garg³, María P. Zago¹¹Instituto de Patología Experimental, Universidad Nacional de Salta - Consejo Nacional de Investigaciones Científicas y Técnicas, Salta, Argentina, ²Instituto de Agrobiotecnología del Litoral, Universidad Nacional del Litoral - Consejo Nacional de Investigaciones Científicas y Técnicas, Santa Fe, Argentina, ³Department of Microbiology and Immunology, School of Medicine, University of Texas Medical Branch, Galveston, TX, United States**(ACMCIP Abstract)**

552**SPIROPLASMA PREVALENCE IN GLOSSINA FUSCIPES FUSCIPES IN UGANDA**

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553**GENETIC BACKGROUND OF AN ATYPICAL LEISHMANIA DONOVANI CAUSING CUTANEOUS LEISHMANIASIS IN SRI LANKA**Sumudu R. Samarasinghe, Nilakshi Samaranyake, Nadira D. Karunaweera
Department of Parasitology, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka**554****IDENTIFICATION OF TRYPANOSOMA CRUZI LINEAGES ASSOCIATED WITH CONGENITAL CHAGAS IN THE POPULATION OF SANTA CRUZ, BOLIVIA**Leny Sanchez¹, Edward Valencia¹, Angela Vidal¹, Edith Malaga¹, Raul Ynocente², Daniella C. Bartholomeu³, Louisa Messenger⁴, Caryn Bern⁵, MG Finn⁶, Alexandre Ferreira³, Ramon Brito³, Manuela Verastegui¹, Maritza Calderon¹, Robert Gilman⁷¹UPCH, Lima, Peru, ²UNMSM, Lima, Peru, ³Universidad Federal de Minas Gerais, Minas Gerais, Brazil, ⁴Department of Disease Control, Faculty of Infectious and Tropical Diseases, London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁵Department of Epidemiology and Biostatistics, School of Medicine, University of California, San Francisco, San Francisco, CA, United States, ⁶Instituto de Tecnología Georgia-EUA, Georgia, GA, United States, ⁷Johns Hopkins University, Baltimore, MD, United States**555****MAPPING METABOLOME ALTERATIONS IN LEISHMANIA AMAZONENSIS PROMASTIGOTES INDUCED BY LONG-TERM AXENIC CULTIVATION, THROUGH A MULTIPLATFORM METABOLOMIC FINGERPRINT APPROACH**Frederico Crepaldi¹, Juliano Simões de Toledo¹, Leopoldo Ferreira Machado¹, Anderson Oliveira do Carmo¹, Daniela Diniz de Brito¹, Angela Vieira Serufo¹, Ana Paula Almeida¹, Leandro Gonzaga de Oliveira¹, Michelle Adriane Amantea¹, Ángelez López-González², Eduardo Antonio Coelho¹, Lirlândia Pires de Sousa¹, Coral Barbas², Ana Paula Salles Fernandes¹¹UFMG, Belo Horizonte, Brazil, ²Universidad CEU San Pablo, Madrid, Spain**556****MULTISYSTEM METABOLOMIC FINGERPRINT ANALYSIS, ASSOCIATED TO IN VIVO CELLULAR DIFFERENTIATION PROCESS OF A WILD TYPE STRAIN OF LEISHMANIA AMAZONENSIS**Frederico Crepaldi¹, Juliano Simões de Toledo¹, Coral Barbas², Ana Paula Salles Fernandes¹¹UFMG, Belo Horizonte, Brazil, ²Universidad San Pablo-CEU, Madrid, Spain

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557**PATHOGENIC INFECTION ANALYSIS IN VITRO AND IN VIVO OF TRIPOMASTIGOTES: EVALUATION OF AREQUIPA STRAIN IN COMPARISON WITH COLOMBIANA AND CL BRENER T. CRUZI STRAINS**Edward Valencia¹, Angela Vidal¹, Raul Ynocente², Elsa Apaza¹, Edith Malaga¹, Leny Sanchez¹, Alejandro Florentini¹, MG Finn³, Alexandre Ferreira⁴, Denise Da Silveira Lemos⁴, Daniella C. Bartholomeu⁴, Maritza Calderon¹, Robert Gilman⁵¹UPCH, Lima, Peru, ²UNMSM, Lima, Peru, ³Instituto de Tecnología Georgia-EUA, USA, GA, United States, ⁴Universidad Federal de Minas Gerais, Minas Gerais, Brazil, ⁵Johns Hopkins University, Baltimore, MD, United States**Kinetoplastida - Immunology
(Including Leishmania and Trypanosomes)****558****USE OF IMMUNOGENIC EPI TOPE ALPHA GALACTOSYL (α-GAL) FOR THE DIAGNOSIS OF CHAGAS DISEASE IN CHAGASIC PATIENTS FROM BOLIVIA AND PERU**Edward Valencia¹, Edith Malaga¹, Leny Sanchez¹, Angela Vidal¹, Juana Calderon¹, Raul Ynocente², Alejandro Florentini¹, MG Finn³, Alexandre Ferreira³, Ramon Brito³, Maritza Calderon¹, Robert Gilman⁴¹UPCH, Lima, Peru, ²UNMSM, Lima, Peru, ³Universidad Federal de Minas Gerais, Minas Gerais, Brazil, ⁴Johns Hopkins University, Baltimore, MD, United States**559****HOST-TSETSEFLY INTERACTIONS IN TRYPANOSOMIASIS ENDEMIC COMMUNITY IN GHANA: IMPLICATIONS FOR HUMAN AFRICAN TRYPANOSOMIASIS**Takashi Suzuki¹, Kwabena M. Bosompem², Daniel Boamah³, Kofi Afakye⁴, Jeffrey Agyapong², Kojo Frempong², Martine Abavana⁵, Thomas Azurago⁶, Samuel Kyei-Faried⁶, Tutu Osei⁷, Andrew Alhassan⁵, Nobuo Ohta⁸
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560**EFFICACY OF GENETICALLY MODIFIED LIVE ATTENUATED LEISHMANIA VACCINES AGAINST INFECTED SAND FLY BITES**Ranadhir Dey¹, Parna Bhattacharya¹, Hamide Aslan², Fabiano Oliveira², Claudio Meneses², Amritanshu Joshi², Luis Pereira², Shannon Townsend², Anderson Guimaraes Costa², Waldione de Castro², Tiago Donatelli Serafim², Iliano Coutinho Abreu², Philip Castrovinci², Robert Duncan¹, Shaden Kamhawi², Jesus Valenzuela², Hira L. Nakhasi¹¹CBER/Food and Drug Administration, Silver Spring, MD, United States, ²National Institutes of Health, Rockville, MD, United States, ³John Hopkins, Baltimore, MD, United States**561****EVALUATION OF SAFETY AND EFFICACY OF LEISHMANIA MAJOR CENTRIN DELETED LIVE ATTENUATED PARASITES AS A PROPHYLACTIC VACCINE AGAINST CUTANEOUS AND VISCERAL LEISHMANIASIS**Subir Karmakar¹, Ranadhir Dey¹, Neveen Ismail¹, Wenwei Zhang², Greg Matlashewski², Abhay Satoskar³, Hira Lal Nakhasi¹¹U.S. Food and Drug Administration, Silver Spring, MD, United States, ²Department of Microbiology and Immunology, McGill University, Montreal, QC, Canada, ³Departments of Pathology and Microbiology, The Ohio State University, Columbus, OH, United States**Pneumonia, Respiratory Infections
and Tuberculosis****562****COMPARATIVE STUDY OF VARYING CONCENTRATIONS OF A NIGERIAN PLANT EXTRACT (E557) ON LOCAL AND STANDARD STRAINS OF MYCOBACTERIUM TUBERCULOSIS**Wisdom O. Iyanda-Joel, Emeka E. Iweala, Shalom N. Chinedu
Covenant University, Ota, NigeriaMonday
November 6

563**EVALUATION OF ANTIMYCOBACTERIAL ACTIVITY OF FIVE CAMEROONIAN PLANTS**

Celine N. Nkenfou¹, Carine T. Tchoufou², Isabelle K. Mawabo³, Elvis N. Ndzi¹, Jules R. Kuate³

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564**TUBERCULOSIS INFECTION IN *MYASTHENIA GRAVIS* PATIENTS: A SYSTEMATIC REVIEW AND META-ANALYSIS**

Ahmed Kamal Sayed¹, Ahmed Elmaraezy², Elsayed Ali Taha³, Zaheer Ahmad Qureshi⁴, Mohamed Fahmy Doheim⁵, Kadek Agus Surya Dila⁶, Doaa Alaa Ibrahim Ahmed⁷, Kenji Hirayama⁸, Nguyen Tien Huy⁹

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565**ANTIMYCOBACTERIAL 2-AMINOQUINAZOLIN-4-ONES: SYNTHESIS, BIOLOGICAL AND PHARMACOLOGICAL EVALUATION**

Paul Njaria¹, Rudolf Mueller², Aloysius Nchinda², Ronnett Seldon³, Dale Taylor⁴, Mathew Njoroge⁴, Leslie Street², Digby Warner², Anne Lenaerts⁵, Gregory Robertson⁵, Kelly Chibale⁶

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566**THE ROLE OF SOCIAL MEDIA IN A NATIONAL TUBERCULOSIS DRUG RESISTANCE SURVEY: LESSONS FROM AN ONGOING SURVEY IN GHANA**

Augustina A. Annan

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

567**CLINICAL AND RADIOLOGIC FEATURES OF PNEUMONIA CAUSED BY STAPHYLOCOCCUS AUREUS AND STREPTOCOCCUS PNEUMONIAE**

Malick Ndiaye¹, Yekini Olatunji¹, Bilquees S. Muhammad¹, Jayani C. Pathirana¹, Augustin E. Fombah¹, Baderinwa Abatan¹, Ebrim Ahamefula¹, Muhammad I. Hossain¹, Shah Sahito¹, Rasheed Salaudeen¹, Usman N. Ikumapay¹, Ahmed Manjang¹, Henry Badji¹, Aliu Akano², Philip Hill³, Brian Greenwood⁴, Grant Mackenzie¹

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568**IMPACT OF THE INTRODUCTION OF PCV7/13 ON ANTIMICROBIAL RESISTANCE IN INVASIVE PNEUMOCOCCAL DISEASE OF LESS THAN 5 YEARS CHILDREN IN RURAL GAMBIA**

Rasheed Adewale Salaudeen

Medical Research Council Unit, The Gambia, Basse, URR, Gambia

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Charlotte Ward, Kevin Baker, Sarah Marks, Karin Källander

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570**EVALUATION OF THE LOOP MEDIATED ISOTHERMAL AMPLIFICATION METHOD ON THE EARLY DIAGNOSIS OF PULMONARY TUBERCULOSIS IN CAMEROON**

Laure Ngando

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571**DIAGNOSTIC, MANAGEMENT AND REFERRAL PATTERNS AMONG PRIVATE HEALTH CARE PROVIDERS FOR PEDIATRIC RESPIRATORY ILLNESSES IN SOUTH INDIA**

Rajan Srinivasan¹, Anita Mathews², Venkat Raghava Mohan¹, Gagandeep Kang¹

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572**APTAMERS SPECIFIC FOR PYRAZINOIC ACID AS A NEW TOOL TO DETERMINE PYRAZINAMIDE RESISTANCE DIRECTLY FROM SPUTUM SAMPLES CULTURES**

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573**BACTERIAL PROFILE AND DRUG RESISTANT PATTERNS IN PNEUMONIA SUSPECTED HIV PATIENTS AT ART CLINICS IN NORTHERN ETHIOPIA**

Gebre Adhanom, Muthupandian Saravanan

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574**MULTI-DRUG RESISTANT TUBERCULOSIS TREATMENT OUTCOMES IN A HIGH HUMAN IMMUNODEFICIENCY VIRUS (HIV) PREVALENCE PROGRAMMATIC COHORT IN UGANDA**

Nansumba Margaret¹, Norbert Tiishekwa², Agnes Ngabirano², Provia Tumukunde³, Bright Twinomugisha², Francis Mugabi⁴

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575**13-VALENT PCV AGAINST INVASIVE**

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Protozoa - Ameba/Giardia

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ENTAMOEBA SPP IN BANGLADESH

Tuhinur Arju¹, Brittany N. Schneider², Mamun Kabir¹, Md. Masud Alam¹, William A. Petri², Rashidul Haque¹, Carol A. Gilchrist²

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ENTAMOEBA BANGLADESHI IN SOUTH AFRICA

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IMPACT OF INTESTINAL PROTOZOA INFECTIONS ON CYTOKINES PROFILES OF INDIVIDUALS INFECTED BY FILARIAL AND/OR INTESTINAL HELMINTHS IN DIFFERENTS AREAS OF GABON

Reinne Moutongo ep Mouandza, Noé Patrick Mbondoukwe, Vanessa Jeanne Lengogo, Jacques Mari Ndong Ngomo, Dénise Patricia Mawili Mboumba, Marielle Bouyou Akotet

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EVALUATION OF A NEW RAPID TEST FOR AMOEBIASIS, THE *E. HISTOLYTICA* QUIK CHEK™

Blake Hanbury¹, Li Chen¹, Carol Gilchrist², Jodie Stevens¹, Susan Doyle¹, Kristen Schwab¹, Abdullah Siddique³, Biplob Hossain³, Cecilia Burkey², Rashidul Haque³, William Petri², Joel Herbein¹

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EVALUATION OF A DIAGNOSTIC SCREENING TEST, THE TRI-COMBO PARASITE SCREEN, FOR DETECTION OF *E. HISTOLYTICA*, *GIARDIA*, AND *CRYPTOSPORIDIUM* PARASITES IN HUMAN FECAL SPECIMENS

Janice Hencke¹, Li Chen¹, Carol Gilchrist², Jodie Stevens¹, Susan Doyle¹, Kristen Schwab¹, Abdullah Siddique³, Mamun Kabir³, Cecilia Burkey², Rashidul Haque³, William Petri², Joel Herbein¹

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THE SEARCH FOR A SMALL MOLECULE THERAPEUTIC FOR THE TREATMENT OF GRANULOMATOUS AMEBIC ENCEPHALITIS

Corin V. White¹, Matthew T. Laurie¹, Kip Guy², Joseph L. DeRisi¹

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IMPACT OF GASTROINTESTINAL PARASITES ON GROWTH USING QUANTITATIVE PCR IN A LONGITUDINAL ECUADORIAN BIRTH COHORT

Patricia E. Bryan¹, Andrea Arévalo Cortés², Carlos Sandoval², Martha Chico², Ashish Damania¹, Philip J. Cooper², Rojelio Mejia¹

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Trematodes – Other

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SEROLOGICAL DIAGNOSIS OF PARAGONIMIASIS USING A RECOMBINANT *PARAGONIMUS KELLICOTTI* ANTIGEN

Kurt C. Curtis¹, Iya Sasse R. Nyaba², Makedonka Mitreva¹, Chounna Ndongmo Winston Patrick², Ngongeh Glory², Ndzheshang Bertrand², Gary J. Weil¹, Samuel Wanji², Peter U. Fischer¹

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CLINICAL STAGES, EPIDEMIOLOGICAL AND LABORATORY CHARACTERISTICS OF FASCIOLIASIS IN CHILDREN POPULATION AT ANTA COMMUNITY IN CUSCO, PERU

Karen Mozo¹, Maria L. Morales¹, Clinton A. White², Andres G. Lescano³, Karen E. Neira³, Miguel M. Cabada¹

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Trematodes - Schistosomiasis - Cellular and Molecular Biology

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REGULATION OF GENE TRANSCRIPTION BY JNK AND P38 MAPK SIGNALING PATHWAYS IN *SCHISTOSOMA MANSONI*

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A SYSTEMS BIOLOGY APPROACH LINKING GENETIC, EPIGENETIC, CYTOPLASMIC AND HOLOBIONT INHERITANCE TO UNDERSTAND RAPID ADAPTATION OF PARASITIC FLATWORMS (*SCHISTOSOMA* SP.)

Christoph Grunau, Celine Cosseau, Eve Toulza, Richard Galinier, Benjamin Gourbal

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KNOCKDOWN OF A *SCHISTOSOMA MANSONI* TRPML CHANNEL (SMTRPML) DISRUPTS ADULT WORM TEGUMENTAL STRUCTURE

Swarna Bais, Gordon Ruthel, Bruce D. Freedman, Robert M. Greenberg

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QUANTITATIVE PROTEOMIC ANALYSIS OF THE HUMAN URINE FOR NOVEL PROTEIN BIOMARKERS FOR SCHISTOSOMIASIS AND ITS ASSOCIATED BLADDER PATHOLOGIES USING LABEL FREE MASS SPECTROMETRY

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Trematodes - Schistosomiasis – Immunology

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SCHISTOSOMA MANSONI EXOSOMES AS MODULATORS OF THE HOST IMMUNE SYSTEM

Maude Dagenais, Jerry Aldridge, Timothy Geary, Paula Ribeiro
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IDENTIFICATION OF A CD193+ SUBPOPULATION OF B CELLS IN PRE-ADOLESCENT CHILDREN WITH SCHISTOSOMIASIS

Isaac O. Onkanga¹, Huldah Sang¹, Bartholomew Ondigo¹, Rachael Hamilton², Thomas Schneider², Maurice Odier¹, Pauline Mwinzi¹, Lisa Ganley Leal²
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IPSE, A UROGENITAL PARASITE-DERIVED HOST MODULATORY PROTEIN, INDUCES GENE EXPRESSION CRITICAL FOR HOST PATHOGENESIS AND PARASITE EGG SURVIVAL AND EXPULSION

Loc Le¹, Christopher Bayne², Evaristus Mbanefo¹, Nirad Banskota¹, Abdulaziz Alouffi³, Franco Falcone³, Michael Hsieh²
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Water, Sanitation, Hygiene and Environmental Health

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A STUDY OF SALMONELLA PREVALENCE IN FROZEN MEATS AND CORRELATION IN TESTS USED FOR SURVEILLANCE TO ASSIST IN A MORE EFFECTIVE FOOD INSPECTION GUIDELINES AT THE FOOD AND ENVIRONMENT LABORATORY IN AJMAN, UAE

Nishi Singh¹, Bashayer A. Al Marzooq², Mohammed Zaman², Ban Altoumah²
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ABERRATION IN IRON AND MEAN CORPUSCULAR HEMOGLOBIN METABOLISM CAUSED BY LAMBDA CYHALOTHRIN AND AFLATOXINS IN FISH DIET FROM SELECTED AQUATIC SOURCES IN KENYA

Faith O. Onyangore
University of Kabianga, Kericho, Kenya

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DRINKING WATER-SPECIFIC RISK FACTORS FOR MODERATE-TO-SEVERE DIARRHEA IN YOUNG CHILDREN IN THE GLOBAL ENTERIC MULTICENTER STUDY — SUB-SAHARAN AFRICA AND SOUTH ASIA, 2007-2012

Ciara E. O'Reilly¹, Tracy L. Ayers¹, Kirsten P. Fagerli¹, Tamer H. Farag², Dilruba Nasrin², Yukun Wu², William C. Blackwelder², Pedro L. Alonso³, Robert F. Breiman⁴, Abu S. Faruque⁵, Debasish Saha⁶, Samba Sow⁷, Dipika Sur⁸, Anita K. Zaidi⁹, M. Jahangir Hossain⁶, Sumon Kumar Das⁵, Shahnawaz Ahmed⁵, Inacio Mandomando¹⁰, Richard Omoro¹¹, Farheen Quadri⁹, James P. Nataro¹², Karen L. Kotloff², Myron M. Levine², Eric D. Mintz¹
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SANITATION, WATER AND INSTRUCTION IN FACE-WASHING FOR TRACHOMA (SWIFT): THE CLUSTER-RANDOMIZED CONTROLLED TRIAL'S PROTOCOL AND RATIONALE

Solomon A. Wondimkun¹, Zerihun Tadesse¹, Kelly Callahan², Paul M. Emerson³, Wondimu Gebeyehu⁴, Matthew C. Freeman⁵, Dionna M. Fry⁶, Vicky Cevallos⁶, Travis C. Porco⁶, Jeremy D. Keenan⁶
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HANDWASHING WITH SOAP PRACTICES AMONG CHOLERA PATIENTS AND THEIR ACCOMPANYING FAMILY MEMBERS IN A HOSPITAL SETTING

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IMPACT OF INDUSTRIAL FOOD PROCESSING EFFLUENT ON MAJOR DRINKING WATER SOURCES IN TECHIMAN MUNICIPALITY, GHANA: WATER POLLUTION AND POTENTIAL HUMAN HEALTH RISKS

Napoleon Jackson Mensah
WA Polytechnic, Kumasi, Ghana

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HIGH THROUGHPUT DETECTION OF 37 ENTERIC PATHOGENS WITH TAQMAN ARRAY CARDS IN ENVIRONMENTAL SPECIMENS

Tahmina Ahmed¹, Tania Ferdousi¹, Jie Liu², Rashidul Haque¹, James A. Platts-Mills², Eric R. Houpt², Mami Taniuchi²
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ASSESSMENT OF WATER, SANITATION, HYGIENE AND INFECTION, PREVENTION AND CONTROL CONDITIONS IN FIFTY TWO HEALTHCARE FACILITIES IN HOIMA DISTRICT OF UGANDA

Habib Yakubu¹, Richard K. Mugambe², John Bosco Isunju², James Michiel¹, Constance Bwire³, Fred Oweru-Odom³, Lindsay Denny¹, Emmanuel Opoki⁴, Joanne McGriff¹, Christine L. Moe¹
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DETECTION AND QUANTIFICATION OF ROTAVIRUS IN SEWAGE USING DROPLET DIGITAL PCR

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EFFECT OF SANITATION ON PHYSICO CHEMICAL QUALITY OF GROUNDWATER

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ASSESSING THE EFFECT OF A NOVEL HOUSEHOLD WATER PASTEURIZATION INTERVENTION ON CHILD DIARRHEA: EVIDENCE FROM A RANDOMIZED CONTROLLED TRIAL IN THE PERUVIAN AMAZON

Kristen Heitzinger¹, Claudio A. Rocha², Robert H. Gilman¹, Stephen E. Hawes³, Carlos A. Alvarez⁴, Carlton A. Evans¹

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PSYCHOSOCIAL FACTORS MEDIATING THE EFFECT OF A HEALTH FACILITY BASED HANDWASHING WITH SOAP AND WATER TREATMENT INTERVENTION IN BANGLADESH (CHOB17 TRIAL)

Christine Marie George¹, Shwapon Biswas², Jamie Perin¹, Robert Dreibelbis³, Danielle Jung¹, Tahmina Parvin², Shirajum Monira², Mahamud-ur Rashid², K. M. Saif-Ur-Rahman², Sazzadul Islam Bhuyian², Elizabeth Thomas¹, Elli Leontsinis¹, Fatema Zohura², Xiaotong Zhang¹, David Sack¹, Munirul Alam², R. Bradley Sack¹, Peter J Winch¹

¹Johns Hopkins University, Baltimore, MD, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

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RISK FACTORS FOR HOUSEHOLD TRANSMISSION OF VIBRIO CHOLERAE IN DHAKA, BANGLADESH (CHOB17 TRIAL)

Vanessa Burrowes¹, Jamie Perin¹, Shirajum Monira², David Sack¹, Mahamud-ur Rashid², Toslim Mahamud², Zillur Rahman², Munshi Mustafiz², Sazzadul Bhuyian², Farzana Begum², Fatema Zohura², Shwapon Biswas², Tahmina Parvin², Tasdik Hasan², Xiaotong Zhang¹, Bradley Sack¹, K. M. Saif-Ur-Rahman², Munirul Alam², Christine Marie George¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²International Centre for Diarrheal Disease Research, Bangladesh, Dhaka, Bangladesh

Courses Committee Meeting

Hilton - Tilghman (West Building, Third Floor)

Monday, November 6, 12:15 p.m. - 1:30 p.m.

Kean Fellowship Committee Meeting

Hilton - Marshall (West Building, Third Floor)

Monday, November 6, 12:15 p.m. - 1:30 p.m.

Late Breaker Abstract Session 29

Late Breakers in Clinical Tropical Medicine and Global Health

Convention Center - Room 337/338 (Level 300)

Monday, November 6, 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 Schedule booklet in your registration packet for the presentation schedule.

CHAIR

Barbara L. Herwaldt

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

Noreen A. Hynes

Johns Hopkins School of Medicine, Baltimore, MD, United States

Jason D. Maguire

Pfizer, Pearl River, NY, United States

Symposium 30

Tropical Medicine Postdoctoral Training: Burroughs Wellcome Fund/ASTMH Fellowship Award and Other Opportunities

Convention Center - Room 339/340 (Level 300)

Monday, November 6, 12:15 p.m. - 1:30 p.m.

This symposium will highlight the Burroughs Wellcome Fund/ASTMH Postdoctoral Fellowship and related opportunities. This individual training fellowship provides support for salary and direct research costs to junior investigators who are doing tropical medicine research in a low- or middle-income country. Launched in 2000, the fellowship supported 41 trainees between 2001 and 2015. This symposium provides an overview of the training fellowship, describes the findings of a recent mixed methods training evaluation and provides resources to junior investigators considering this and similar awards. A recent evaluation found remarkable success among previous trainees. Among postdoctoral trainee recipients with more than three years since completing their fellowship, 21/35 (60%) had received career development awards from the NIH. Burroughs Wellcome Fund/ASTMH Fellowship recipients with at least three years of follow-up data had co-authored a mean of 36 publications and 29/35 (82%) held academic positions. The return on investment was 11.9 overall and 31.8 for fellowships awarded between 2001 and 2004. Compared to other postdoctoral training programs, this is highly successful. However, there are other global health awards that are available for junior investigators to support tropical medicine research. This symposium will provide insight from those who have received, evaluated and helped to organize the Burroughs Wellcome Fund/ASTMH Postdoctoral Fellowship and similar tropical medicine research awards.

CHAIR

Joseph Tucker

UNC Project-China, Guangzhou, China

Terrie Taylor

Michigan State University, East Lansing, MI, United States

12:15 p.m.

HISTORY AND INTRODUCTION TO BURROUGHS WELCOME FUND/ASTMH POSTDOCTORAL FELLOWSHIP IN TROPICAL INFECTIOUS DISEASES

Terrie Taylor

Michigan State University, East Lansing, NJ, United States

12:25 p.m.

BURROUGHS WELCOME FUND/ASTMH FELLOWSHIP EVALUATION

Joseph Tucker

UNC Project-China, Guangzhou, China

12:35 p.m.

FACULTY PERSPECTIVE ON BURROUGHS WELCOME FUND/ASTMH FELLOWSHIP

Peter Weller

Beth Israel Deaconess Medical Center, Boston, MA, United States

12:45 p.m.

AWARDEE PERSPECTIVE ON BURROUGHS WELCOME FUND/ASTMH FELLOWSHIP

Lynn Matthews

Massachusetts General Hospital, Boston, MA, United States

Meet the Professors 31

Meet the Professors A: Enigmatic and Teaching Cases

Convention Center - Room 341/342 (Level 300)

Monday, November 6, 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. The Professors will discuss how their career has developed as examples for students and trainees.

CHAIR

David R. Boulware

University of Minnesota, Minneapolis, MN, United States

PRESENTER

Eric R. Houpt

University of Virginia, Charlottesville, VA, United States

Poster Session A Viewing

Convention Center - Hall F and G (Level 100)

Monday, November 6, 1:45 p.m. - 4 p.m.

Symposium 32

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

Convention Center - Ballroom I (Level 400)

Monday, November 6, 1:45 p.m. - 3:30 p.m.

The American Committee on Arthropod-Borne Viruses 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

Nikos Vasilakis

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

Desiree LaBeaud

Stanford University, Stanford, CA, United States

1:45 p.m.

AWARDS AND ACAV ANNUAL BUSINESS MEETING

Nikos Vasilakis

University of Texas Medical Branch, Galveston, United States

2:05 p.m.

EILAT VIRUS AND ITS APPLICATIONS

Farooq Nasar

U.S. Army Medical Research Institute for Infectious Diseases, Fort Detrick, United States

2:15 p.m.

USING GENOMIC TECHNOLOGIES TO UNDERSTAND ZIKA VIRUS VERTICAL TRANSMISSION AND METAGENOMIC EPIDEMIOLOGY

Kayla Barnes

2016 Robert E. Shope International Fellowship Recipient, Broad Institute, Boston, MA, United States

2:25 p.m.

ACAV STUDENT TRAVEL AWARD RECIPIENT LIGHTNING TALKS

3:15 p.m.

NETWORKING AND SOCIAL TIME

Symposium 33

Geospatial Approaches for Modeling Malaria: From Emergence to Elimination

Convention Center - Ballroom II (Level 400)

Monday, November 6, 1:45 p.m. - 3:30 p.m.

Geospatial approaches applied to understanding the spatial distribution of malaria risk – and forecasting its spread – are key components of public health strategies for malaria control and elimination, and responding to drug resistance; from the factors that underlie the emergence of resistant parasites, the containment of new outbreaks, to the monitoring, control, and elimination of malaria. Understanding where and when to allocate resources in all these situations depends on accurate geocoded demographic, epidemiological and clinical data, but decision-making can be improved by incorporating increasingly high-resolution estimates from models about the distribution and spread of infection, using satellite images, mobile phone data and parasite population genetics and genomic epidemiology to inform model parameters. These geospatial data sources and approaches are being integrated into new models of malaria risk. This symposium will bring together researchers working

on malaria who are developing new geospatial approaches and integrating new data sources to reveal new insights about the risk of infection in space and time in order to design effective control and elimination strategies.

CHAIR

Christopher V. Plowe
Institute for Global Health at the University of Maryland School of Medicine, Baltimore, MD, United States

Caroline Buckee
Harvard T.H. Chan School of Public Health, Boston, MA, United States

1:45 p.m.
PROSPECTS FOR MALARIA ELIMINATION: NEW APPROACHES TO MONITORING HUMAN AND PARASITE MOBILITY

Caroline Buckee
Harvard T.H. Chan School of Public Health, Boston, MA, United States

2:05 p.m.
RISK MAPPING FOR MALARIA ELIMINATION IN THE GREATER MEKONG SUBREGION

Richard Maude
Mahidol University, Bangkok, Thailand

2:25 p.m.
A SPATIALLY EXPLICIT APPROACH FOR IDENTIFYING GEOGRAPHIC PATTERNS OF *PLASMODIUM FALCIPARUM* MIGRATION AND DIVERSITY IN CAMBODIA

Kathleen Stewart
University of Maryland, College Park, MD, United States

2:45 p.m.
MAPPING DYNAMIC DENOMINATORS FOR MALARIA ELIMINATION STRATEGY DESIGN

Nick W. Ruktanonchai
University of Southampton, Southampton, United Kingdom

Symposium 34

Approaches for Understanding and Mitigating Drug-Resistant Malaria

Convention Center - Ballroom III (Level 400)
Monday, November 6, 1:45 p.m. - 3:30 p.m.

Resistance to antimalarial drugs, in particular to the artemisinin derivatives and their combination therapy partner drugs, threatens recent progress toward malaria eradication. Indeed, the emergence of multidrug-resistant malaria parasites in Southeast Asia is compromising the effectiveness of first-line antimalarials in clinical use in this part of the world, making malaria difficult to treat, and potentially derailing regional elimination efforts. This symposium will include a discussion of novel approaches to understand antimalarial drug resistance in both *Plasmodium falciparum* and *Plasmodium vivax*, including clinical approaches, genomic approaches, genetic crosses, and a new mutator rodent parasite model. Such approaches are accelerating the ability of the malaria research community to elucidate mechanisms of resistance and devise strategies to counter the evolution and spread of resistant parasites.

CHAIR

David A. Fidock
Columbia University Medical Center, New York, NY, United States

Shannon Takala
University of Maryland School of Medicine, Center for Vaccine Development, Baltimore, MD, United States

1:45 p.m.
GENOMIC APPROACHES TO UNDERSTAND THE GENETIC BASIS OF ANTIMALARIAL DRUG RESISTANCE

Shannon Takala
University of Maryland School of Medicine, Baltimore, MD, United States

2:10 p.m.
GENETIC INSIGHTS INTO PIPERAQUINE RESISTANCE IN *PLASMODIUM FALCIPARUM*

David A. Fidock
Columbia University Medical Center, New York, NY, United States

2:35 p.m.
A MUTATOR *PLASMODIUM BERGHEI* MODEL TO INVESTIGATE ANTIMALARIAL DRUG RESISTANCE

Toshihiro Mita
Juntendo University School of Medicine, Tokyo, Japan

3 p.m.
PHENOTYPIC AND GENOTYPIC CHARACTERIZATION OF CHLOROQUINE RESISTANCE IN *PLASMODIUM VIVAX*

Ric Price
Menzies School of Health Research, Darwin, Australia

Symposium 35

Adventures in Tropical Dermatology

Convention Center - Ballroom IV (Level 400)
Monday, November 6, 1:45 p.m. - 3:30 p.m.

Clinical dermatology is an essential component of tropical medicine. In this symposium, participants will review 50 clinically-important topics in a stimulating, interactive, Jeopardy-style format, accompanied by superb clinical photographs. Each question/answer will be followed by a two-minute micro-lecture on important diagnostic, therapeutic and pathophysiologic points. Subjects include Fungal Love, Itching at the Equator, Creepy Crawlies, Lumps and Bumps, The Eyes Have It, etc.

CHAIR

Scott A. Norton
Children's National Medical Center, Washington, DC, United States

Karolyn Wanat
University of Iowa, Iowa City, IA, United States

PRESENTERS

Scott A. Norton
Children's National Medical Center, Washington, DC, United States

Karolyn Wanat
University of Iowa, Iowa City, IA, United States

Claire Fuller
Chelsea and Westminster Hospital, London, United Kingdom

Scientific Session 36

Malaria: Novel Insights and Methods in Malaria Diagnostics

Convention Center - Room 318/319/320 (Level 300)
Monday, November 6, 1:45 p.m. - 3:30 p.m.

CHAIR

Sunil Parikh
Yale School of Public Health, New Haven, CT, United States

Kristin E. Poti
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

1:45 p.m.

604

NOVEL GAMETOCYTE BIOMARKERS FOR DETECTION OF THE *PLASMODIUM FALCIPARUM* INFECTIOUS RESERVOIRS

Bryan Grabias¹, Edward Essuman¹, Nitin Verma¹, Hong Zheng¹, Abhai K. Tripathi², Godfree Mlambo², Isabella Quakyi³, Miranda Oakley¹, Sanjai Kumar¹
¹Food and Drug Administration, Silver Spring, MD, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³University of Ghana, Legon, Ghana

2 p.m.

605

PERFORMANCE OF LOOP-MEDIATED ISOTHERMAL AMPLIFICATION FOR THE IDENTIFICATION OF SUBMICROSCOPIC *P. FALCIPARUM* INFECTION IN UGANDA

Shereen Katrak¹, Maxwell Murphy¹, Patience Nayebare², John Rek², Mary Smith¹, Emmanuel Arinaitwe², Joaniter Nankabirwa², Moses Kamy², Grant Dorsey¹, Phil Rosenthal¹, Bryan Greenhouse¹
¹University of California San Francisco, San Francisco, CA, United States, ²Infectious Diseases Research Collaboration, Kampala, Uganda

2:15 p.m.

606

INVESTIGATING THE KINETICS OF TRANSGENIC *PLASMODIUM FALCIPARUM* HRP2 PROTEIN PRODUCED BY *P. BERGHEI* IN A NOVEL MURINE MODEL

Kristin E. Poti¹, Amanda Balaban¹, Priya Pal², Daniel Goldberg², Photini Sinnis¹, David Sullivan¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Washington University, St. Louis, MO, United States

2:30 p.m.

607

COMPARISON OF SIMULTANEOUS CAPILLARY AND VENOUS PARASITEMIA AND GENOTYPING RESULTS FROM CHILDREN AND ADULTS WITH UNCOMPLICATED MALARIA

Aine Lehane¹, Moses Were², Musleehat Hamadu¹, Sylvia Kiconco², Richard Kajubi², Francesca Aweeka³, Norah Mwebaza², Sunil Parikh¹
¹Yale School of Public Health, New Haven, CT, United States, ²Infectious Diseases Research Collaboration, Kampala, Uganda, ³University of California San Francisco, San Francisco, CA, United States

2:45 p.m.

608

BLUE-LASER TECHNOLOGY FOR RAPID SENSITIVE DETECTION OF *PLASMODIUM FALCIPARUM* PARASITEMIA AND GAMETOCYTEMIA

Isaie J. Reuling, Wouter A. van der Heijden, Quirijn de Mast, Rianne Siebelink-Stoter, Kjerstin Lanke, Lisanne van de Schans, Annelies Post, Teun Bousema, Robert W. Sauerwein, Andre J. van der Ven
Radboud University Medical Center, Nijmegen, Netherlands

3 p.m.

609

BREATHPRINTING REVEALS MALARIA-ASSOCIATED BIOMARKERS AND MOSQUITO ATTRACTANTS

Chad Schaber, Nalin Katta, Lucy Bollinger, Indi Trehan, Barani Raman, Audrey Odom John
Washington University, St. Louis, MO, United States

3:15 p.m.

610

THE USE OF SMALL PEPTIDE MICROARRAYS TO DETECT MALARIA EXPOSURE

Andrew Pike¹, Jason A. Bailey¹, Mark A. Travassos¹, Amed Outtara¹, Sonia Agrawal¹, Antoine Dara¹, Lauren M. Cohee¹, Drissa Coulibaly², Kirsten E. Lyke¹, Matthew B. Laurens¹, Matthew Adams¹, Shannon Takala-Harrison¹, Bourema Kouriba², Abdoulaye K. Kone², Ogobara K. Doumbo², Mahamadou A. Thera², Philip L. Felgner³, John C. Tan⁴, Jigar Patel⁴, Christopher V. Plowe¹, Andrea A. Berry¹
¹University of Maryland, School of Medicine, Institute for Global Health, Baltimore, MD, United States, ²Malaria Research and Training Center, University Sciences, Techniques and Technologies, Bamako, Mali, ³Division of Infectious Diseases, Department of Medicine, University of California Irvine, Irvine, CA, United States, ⁴Roche Sequencing Solutions, Madison, WI, United States

Symposium 37

Antimicrobial Resistance: Transforming Diseases of Poverty into Global Threats

Convention Center - Room 321/322/323 (Level 300)
Monday, November 6, 1:45 p.m. - 3:30 p.m.

In developing countries, preventable infectious diseases are a significant cause of morbidity and mortality. Due to inequity in access to resources, diseases like enteric fever and nontyphoidal *Salmonella* (NTS) disproportionately impact marginalized populations. However, with growing antimicrobial resistance (AMR), the impact of these diseases has the potential to spread globally. Multidrug-resistant strains of *Salmonella Typhi* first appeared in the 1970s in Asia and rapidly spread to Africa. Resistance to traditional first-line drugs used to treat NTS is now common. AMR strains of enteric fever and NTS have the potential to spread due to urbanization, environmental degradation and globalization, affecting populations not originally at risk. New studies and surveillance networks are tracking the spread of AMR strains of enteric fever and NTS. This symposium will share a global overview of AMR along with reports from Pakistan, Bangladesh and Kenya to illustrate the patterns, risk factors and cost of resistance. Additionally, the symposium will address how this evidence can inform strategies to contain AMR enteric fever and NTS. The objectives of the symposium are to 1) provide insight into the growing threat of AMR enteric fever and NTS 2) share data on patterns, risk factors and cost of resistance in Pakistan, Bangladesh and Kenya. The symposium will feature an overview about the impact of the global spread of AMR enteric fever and NTS followed by speakers who will present data from their respective countries.

CHAIR

Denise Garrett
Sabin Vaccine Institute, Washington, DC, United States
Steve Luby
Stanford University, Stanford, CA, United States

1:45 p.m.
THE GLOBAL EPIDEMIOLOGY OF TYPHOID AND ASSOCIATED AMR

Vanessa Wong
University of Cambridge, Cambridge, United Kingdom

2:05 p.m.
REPORTS FROM THE FIELD: OUTBREAK OF CEFTRIAXONE RESISTANT *SALMONELLA* IN HYDERABAD, PAKISTAN

Farah Qamar
Aga Khan University, Karachi, Pakistan

2:25 p.m.
POPULATION BIOLOGY AND ANTIMICROBIAL RESISTANCE PATTERNS OF *SALMONELLA TYPHI* AND PARATYPHI IN BANGLADESH

Samir Saha
The Child Health Research Foundation, Dhaka, Bangladesh

2:45 p.m.
EPIDEMIOLOGY AND GENOMICS OF MULTIDRUG RESISTANT NON-TYPHOIDAL *SALMONELLA* IN KENYA

Sam Kariuki
Kenya Medical Research Institute, Nairobi, Kenya

Scientific Session 38

Mosquitoes - Vector Biology - Epidemiology II

Convention Center - Room 324/325/326 (Level 300)
Monday, November 6, 1:45 p.m. - 3:30 p.m.

CHAIR

Matthew V. Cannon
University of Maryland, Institute for Genome Sciences, Baltimore, MD, United States

Clare McCormack
Imperial College London, London, United Kingdom

1:45 p.m. **611**

NEW EVIDENCE OF MATING SWARMS OF THE MALARIA VECTOR, *ANOPHELES ARABIENSIS* IN TANZANIA

Emanuel W. Kaindoa¹, Gustav Mkandawile¹, Japhet Kihonda¹, Alex Limwagu¹, John Paliga¹, Emmanuel Mwanga¹, Halfan Ngowo¹, Abdoulaye Diabate², Fredros Okumu¹

¹Ifakara Health Institute, Morogoro, United Republic of Tanzania, ²IRSS, Bobo-Dioulasso, Burkina Faso

2 p.m. **612**

THE EFFECTS OF METAPOPULATION STRUCTURE ON FINE-SCALE MOSQUITO POPULATION DYNAMICS AND POTENTIAL CONSEQUENCES FOR THE TRANSMISSION DYNAMICS OF DENGUE AND MALARIA

Clare McCormack, Azra C. Ghani, Neil M. Ferguson
Imperial College London, London, United Kingdom

2:15 p.m. **613**

CHANGES IN MOSQUITO BEHAVIORS ARE LIKELY TO IMPACT ON THE EFFECTIVENESS OF INDOOR-BASED MALARIA VECTOR CONTROL INTERVENTIONS IN CHIKWAWA, MALAWI

Justin Kumala¹, Themba Mzilahowa², Lisa Reimer³
¹Wits Research Institute for Malaria, Johannesburg, South Africa, ²Malaria Alert Centre, College of Medicine, Blantyre, Malawi, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom

2:30 p.m. **614**

A NOVEL HIGH-THROUGHPUT SEQUENCING ASSAY TO IDENTIFY AND CHARACTERIZE ALL EUKARYOTIC PARASITES PRESENT IN HUMAN STOOLS AND DISEASE VECTORS

Matthew V. Cannon, David Serre
University of Maryland, Baltimore, Baltimore, MD, United States

(ACMCIP Abstract)

2:45 p.m. **615**

NOVEL VECTORS OF THE ZONOTIC MALARIA PARASITE, *PLASMODIUM KNOWLESI*, IN TWO DISTRICTS OF SARAWAK, MALAYSIAN BORNEO

Joshua Ang Xin De¹, Khamisah Abdul Kadir¹, Dayang Shuaisah Awang Mohamad¹, Asmad Matusop², Khatijah Yaman¹, Balbir Singh¹
¹Universiti Malaysia Sarawak, Sarawak, Malaysia, ²Sarawak Department of Health, Sarawak, Malaysia

3 p.m. **616**

DIFFERENTIAL EFFECTS OF TIRE LEACHATE ON *Aedes* MOSQUITOES MAY FACILITATE INVASION SUCCESS

Paul T. Leisnham
University of Maryland, College Park, MD, United States

3:15 p.m. **617**

INFLUENCE OF RUBBER AND PALM CULTIVATIONS ON HUMAN EXPOSURE TO *Aedes aegypti* EVALUATED BY USING AN IMMUNO EPIDEMIOLOGICAL BIOMARKER

Céline M. Yobo¹, Agnimou M. Sadio-Kacou², Akre M. Adja², Emmanuel Eilanga-Ndile³, André B. Sagna⁴, Négnorogo Guindo-Coulibaly², Anne Poinson⁴, Franck Remoué⁴, Benjamin G. Koudou¹

¹Nangui Abrogoua University, Abidjan, Côte D'Ivoire, ²Felix Houphouet Boigny University, Abidjan, Côte D'Ivoire, ³Malaria Research Laboratory, Yaoundé, Cameroon, ⁴IRD, Montpellier, France

Scientific Session 39

Dengue: Vaccines/Epidemiology

Convention Center - Room 327/328/329 (Level 300)
Monday, November 6, 1:45 p.m. - 3:30 p.m.

CHAIR

Natsuko Imai
Imperial College London, London, United Kingdom

Stephen S. Whitehead
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

1:45 p.m.

618**MAPPING GLOBAL VARIATION IN DENGUE TRANSMISSION INTENSITY AND ASSESSING THE IMPACT OF CONTROL STRATEGIES**Lorenzo Cattarino¹, Isabel Rodríguez-Barraquer², Derek Cummings³, Natsuko Imai¹, Neil Ferguson¹¹Imperial College London, London, United Kingdom, ²Johns Hopkins University, Baltimore, MD, United States, ³University of Florida, Gainesville, FL, United States

2 p.m.

619**MAPPING THE GLOBAL ESTIMATES OF DENGUE SEROPREVALENCE AND TRANSMISSION INTENSITY**Natsuko Imai¹, Isabel Rodríguez-Barraquer², Wesley Hinsley¹, Derek A. Cummings³, Neil M. Ferguson¹¹Imperial College London, London, United Kingdom, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³University of Florida, Gainesville, FL, United States

2:15 p.m.

620**A MULTI-COUNTRY STUDY OF THE ECONOMIC BURDEN OF DENGUE FEVER IN SIX COUNTRIES OF DVI FIELD STUDIES: VIETNAM, THAILAND, COLOMBIA, CAMBODIA, BURKINA FASO AND KENYA**Jung-Seok Lee¹, Vittal Mogasale¹, Jacqueline K. Lim¹, Mabel Carabali¹, Kang Sung Lee¹, Chukiat Sirivichayakul², Xavier Zongo³, Sopheak Sorn⁴, Hadley Sultani⁵, Diana C. Palencia-Florez⁶, Hien Anh T. Nguyen⁷, Arthorn Riewpaiboon², Sammy Njenga⁸, Sowath Ly⁴, Duc Anh Dang⁷, Pornthep Chanthavanich², Luis A. Villar⁶, Seydou Yaro⁹, Brian Maskery¹⁰, Andrew Farlow¹¹, In-Kyu Yoon¹¹International Vaccine Institute, Seoul, Republic of Korea, ²Mahidol University, Bangkok, Thailand, ³AGIR, Ouagadougou, Burkina Faso, ⁴Institut Pasteur Cambodia, Phnom Penh, Cambodia, ⁵Ministry of Health, Nairobi, Kenya, ⁶Clinical Epidemiology Unit, Universidad Industrial de Santander, Bucaramanga, Colombia, ⁷National Institute of Hygiene and Epidemiology, Hanoi, Vietnam, ⁸Kenya Medical Research Institute, Nairobi, Kenya, ⁹Centre Muraz, Bobo-Dioulasso, Burkina Faso, ¹⁰Centers for Disease Control and Prevention, Atlanta, GA, United States, ¹¹University of Oxford, Oxford, United Kingdom

2:30 p.m.

621**THE ROLE OF HETEROTYPIC NEUTRALIZING ANTIBODY IN PROTECTION FOLLOWING TRIVALENT DENGUE VIRUS VACCINATION AND CHALLENGE**Stephen S. Whitehead¹, Beth D. Kirkpatrick², Kristen Pierce², Eve Ostrowski³, Cecilia Tibery³, Tama Grier³, Beulah P. Sabundayo³, Cathy Larsson², Yolanda Eby³, Helen He³, Sean Diehl², Cassandra Ventrone², Marya Carmolli², Anna P. Durbin³¹Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²University of Vermont College of Medicine, Burlington, VT, United States, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

2:45 p.m.

622**VIRAL GENETIC DIVERSITY AND PROTECTIVE EFFICACY OF A CYD-TDV TETRAVALENT DENGUE VACCINE IN A PHASE 3 TRIAL IN ASIA**Craig A. Magaret¹, Michal Juraska¹, Jason Shao², Lindsay N. Carpp¹, Andrew J. Fiore-Gartland¹, David Benkeser³, Yves Girerd-Chambaz⁴, Edith Langevin⁵, Carina Frago⁶, Bruno Guy⁶, Paul T. Edlefsen¹, Peter B. Gilbert¹¹Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ²University of Washington, Seattle, WA, United States, ³University of California Berkeley, Berkeley, CA, United States, ⁴Sanofi Pasteur, Marcy-L'Etoile, France, ⁵Sanofi Pasteur, Lyon, France, ⁶Sanofi Pasteur, Swiftwater, PA, United States

3 p.m.

623**PROGRESS IN DEVELOPMENT OF TAKEDA'S TETRAVALENT DENGUE VACCINE CANDIDATE**Vianney Tricou¹, Xavier Sáez-Llorens², Delia Yu³, Luis Rivera⁴, Astrid Borkowski¹, Derek Wallace¹¹Takeda Pharmaceuticals International AG, Zurich, Switzerland, ²Hospital del Niño Dr. José Renán Esquivel, Panama City, Panama, ³De La Salle Health Sciences Institute, Dasmariñas, Philippines, ⁴Hospital Maternidad Nuestra Señora de La Altagracia, Santo Domingo, Dominican Republic

3:15 p.m.

624**CORRELATES OF RISK AND PROTECTION FOR CYD-TDV, THE FIRST LICENSED DENGUE VACCINE IN ENDEMIC COUNTRIES**Zoe Moodie¹, Michal Juraska¹, Ying Huang¹, Yingying Zhuang², Youyi Fong¹, Steven G. Self¹, Laurent Chambonneau³, Robert Small⁴, Nicholas Jackson⁵, Fernando Noriega⁴, Peter B. Gilbert¹¹Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ²University of Washington, Seattle, WA, United States, ³Sanofi Pasteur, Marcy-L'Etoile, France, ⁴Sanofi Pasteur, Swiftwater, PA, United States, ⁵Sanofi Pasteur, Lyon, France**Scientific Session 40****Filariasis: Epidemiology and Control II**

Convention Center - Room 331/332 (Level 300)

Monday, November 6, 1:45 p.m. - 3:30 p.m.

CHAIRPeter Fischer
Washington University School of Medicine, St. Louis, MO, United StatesLindsay Rakers
The Carter Center, Atlanta, GA, United States

1:45 p.m.

625**LOW LOA LOA BLOOD MICROFILARIA DENSITY IN HYPO-ENDEMIC ONCHOCERCIASIS AREAS IN NIGERIA: USING THE NEW LOASCOPE TECHNOLOGY TO DETERMINE WHERE IT IS SAFE TO TREAT WITH IVERMECTIN**Lindsay J. Rakers¹, Emmanuel Emukah², Barminas Kahansim², Bertram E. Nwoke³, Emmanuel S. Miri², Emily Griswold¹, Yisa Saka⁴, Ifeoma Anagbogu⁴, Emmanuel Davies⁴, Cephas Ityonzughul², Michael D'Ambrosio⁵, Matthew Bakalar⁵, Daniel A. Fletcher⁶, Thomas Nutman⁶, Frank O. Richards¹¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Jos, Nigeria, ³Imo State University, Owerri, Nigeria, ⁴Federal Ministry of Health, Abuja, Nigeria, ⁵University of California Berkeley, Berkeley, CA, United States, ⁶National Institutes of Health, Bethesda, MD, United States

2 p.m.

626**QUANTIFICATION OF VECTOR INFECTION THRESHOLD FOR MAKING PROGRAMMATIC DECISION ON STOPPING OR CONTINUING THE PROGRAM TO ELIMINATE LYMPHATIC FILARIASIS**

Subramanian Swaminathan, Sadanandane Candasamy, Vasuki Venkatesan, Jambulingam Purushothaman

Vector Control Research Centre (ICMR), Puducherry, India

2:15 p.m.

627

A SIGNIFICANT STEP TOWARDS LYMPHATIC FILARIASIS ELIMINATION IN CAMEROON: THE DISEASE IS NOT ENDEMIC IN 31 HEALTH DISTRICTS CO-ENDEMIC WITH *LOA* AND HYPOENDEMIC FOR ONCHOCERCIASIS

Benjamin Didier Biholong¹, Patrick Mbia², Julie Akame², Henri C. Mougou², Georges N. Ayissi¹, Samuel Wanjji³, Michel Paradis², Steven D. Reid⁴, Yaobi Zhang⁵

¹Ministry of Public Health, Cameroon, Yaoundé, Cameroon, ²Helen Keller International, Yaoundé, Cameroon, ³University of Buea, Buea, Cameroon, ⁴Helen Keller International, New York, NY, United States, ⁵Helen Keller International, Dakar, Senegal

2:30 p.m.

628

PHARMACOKINETICS OF TRIPLE DRUG THERAPY IN PATIENTS WITH AND WITHOUT *WUCHERERIA BANCROFTI* INFECTION

Edi Constant¹, Yashpal S. Chhonker², Catherine Bjerum³, Allassane F. Ouattara⁴, Benjamin G. Koudou⁵, Abdoulaye Meité⁶, Gary J. Weil⁷, Christopher L. King⁸, Daryl J. Murry²

¹Centre Suisse de Recherche Scientifique en Côte d'Ivoire, Abidjan, Côte d'Ivoire, ²UNMC, Omaha, NE, United States, ³Case Western Reserve University, Cleveland, OH, United States, ⁴Centre Suisse de Recherche Scientifique en Côte d'Ivoire and Université Nangui Abrogoua, Abidjan, Côte d'Ivoire, ⁵Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁶Programme national de la lutte contre la schistosomiase, les geohelminthiases et la filariose lymphatique, Abidjan, Côte d'Ivoire, ⁷Washington University School of Medicine, St. Louis, MO, United States, ⁸Center for Global Health and Diseases, Case Western Reserve University and Veterans Affairs Research Service, Cleveland, OH, United States

2:45 p.m.

629

HYDROCOELE SURGERY FOR LYMPHATIC FILARIASIS: MEASURING THE IMPACT ON PATIENT CAREGIVERS IN MALAWI

Sarah Martindale¹, John Chipwanya², Dorothy Emmie Matipula², Paul Ndhlovu², Hannah Betts¹, Louise Kelly-Hope¹

¹Centre for Neglected Tropical Diseases, Department of Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Ministry of Health, Lilongwe, Malawi

3 p.m.

630

LYMPHATIC FILARIASIS TRANSMISSION VARIATION WITHIN AN IMPLEMENTATION UNIT - THE CASE OF THE LIMBE COMMUNE IN THE NORTH DEPARTMENT OF HAITI

Alain Javel¹, Carl Renand Fayette¹, Franck Monestime¹, Cudjoe Bennett², Sarah Craciunoiu², Abdel Direny³, Kim Won⁴, Caitlin Worrell⁴, Katherine Gass⁵, Jean-Franz Lemoine⁶

¹IMA World Health, Port au Prince, Haiti, ²IMA World Health, Washington, DC, United States, ³RTI International, Washington, DC, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Task Force for Global Health, Atlanta, GA, United States, ⁶Ministry of Public Health and Population, Port au Prince, Haiti

3:15 p.m.

631

MODELLING THE ROLE OF LONG LASTING INSECTICIDE-TREATED BEDNETS IN THE REDUCTION OF LYMPHATIC FILARIASIS PREVALENCE ACROSS A RANGE OF SETTINGS

Emma L. Davis, Deirdre Hollingsworth, Matt J. Keeling
University of Warwick, Coventry, United Kingdom

Scientific Session 41

Kinetoplastida: Diagnosis, Treatment and Vaccine Development

Convention Center - Room 337/338 (Level 300)

Monday, November 6, 1:45 p.m. - 3:30 p.m.

CHAIR

Caryn Bern

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

Nadira Karunaweera

University of Colombo, Colombo, Sri Lanka

1:45 p.m.

632

ATTENUATED VARIANT OF *L. DONOVANI* CAUSES CUTANEOUS LEISHMANIASIS IN SRI LANKA

Udeshika L. Kariyawasam¹, Angamuthu Selvapandiyani², Panduka Karunanayake³, Yamuna Siriwardena¹, Hira L. Nakhasi⁴, **Nadira D. Karunaweera**¹

¹Department of Parasitology, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, ²JH-Institute of Molecular Medicine, Jamia Hamdard, New Delhi, India, ³Department of Clinical Medicine, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, ⁴Laboratory of Emerging Pathogens, Division of Emerging and Transfusion Transmitted Diseases, Center for Biologics Evaluation and Research, Food and Drug Administration, Silver Spring, MD, United States

2 p.m.

633

FROM DECIPHERING THE SPECIFIC IMMUNE RESPONSE TO A NOVEL BIOMARKER FOR MONITORING CHAGAS DISEASE

Maan Zrein¹, Ester C. Sabino²

¹Infynity Biomarkers, Lyon, France, ²University of Sao Paulo, Sao Paulo, Brazil

2:15 p.m.

634

PERSISTENCE OF *TRYPANOSOMA CRUZI* DNA COPIES BY QUANTITATIVE REAL TIME PCR 12 MONTHS AFTER TREATMENT WITH BENZNIDAZOLE AMONG CHILDREN AGED 4-15 YEARS OLD IN BOLIVIA

Clara Vasquez Velasquez¹, Kota Mochizuki¹, Yelin Roca², Jimmy Revollo², Angelica Guzman², Benjamin Quiroga³, Alberto Zambrana Ortega⁴, Eida Espinoza⁴, Mihoko Kikuchi¹, Shusaku Mizukami¹, Graciela Russomando⁵, Kenji Hirayama¹

¹Institute of Tropical Medicine, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, ²Centro Nacional de Enfermedades Infecciosas CENETROP, Santa Cruz, Plurinational State of Bolivia, ³Programa Departamental de Control de Chagas del Ministerio de Salud, Santa Cruz, Plurinational State of Bolivia, ⁴Hospital Municipal Warnes "Nuestra Señora del Rosario", Santa Cruz, Plurinational State of Bolivia, ⁵Departamento de Biología Molecular y Biotecnología, Investigaciones en Ciencias de la Salud, Universidad Nacional de Asunción, Asunción, Paraguay

2:30 p.m.

635

BENZINIDAZOLE TREATMENT IS ASSOCIATED WITH *TRYPANOSOMA CRUZI* BLOOD PCR NEGATIVITY AND LESS CARDIAC LESIONS IN CHAGAS DISEASE: NIH SAMITROP STUDY

Clareci S. Cardoso¹, Ester C. Sabino², Claudia D. Oliveira¹, Lea C. Oliveira², Enrico A. Colosimo³, Ana L. Bierrenbach², J. L. Silva⁴, Ariela M. Ferreira⁵, T. H. Lee⁶, Marcio Oikawa⁷, Michael Busch⁶, Antonio L. Ribeiro⁴
¹Federal University of São João del-Rei, Public Health, Divinópolis, Brazil, ²University of Sao Paulo, São Paulo, Brazil, ³Federal University of Santa Maria, Santa Maria, Brazil, ⁴Federal University of Minas Gerais, Belo Horizonte, Brazil, ⁵State University of Montes Claros, Montes Claros, Brazil, ⁶Blood Systems Research Institute, San Francisco, CA, United States, ⁷Federal University of ABC, Sao Bernardo, Brazil

2:45 p.m.

636

POTENTIAL IMPROVEMENT IN THE DIAGNOSIS OF CANINE VISCERAL LEISHMANIASIS IN BRAZIL BY IMPLEMENTATION OF AN ELISA TEST USING RECOMBINANT PROTEINS OF *LEISHMANIA*

Lairton S. Borja¹, Matheus S. Jesus¹, Livia B. Coelho¹, Edimilson D. Silva², Antonio G. Ferreira², Deborah B. Fraga¹, Patricia S. Veras¹
¹FIOCRUZ/BA - Instituto Gonçalo Moniz, Salvador, Brazil, ²Instituto de Tecnologia em Imunobiológicos, Bio-Manguinhos, Rio de Janeiro, Brazil

3 p.m.

637

PROGNOSTIC MARKERS OF DEATH FOR CHAGAS DISEASE IN REMOTE AREAS OF BRAZIL

Claudia D. Oliveira¹, Ester C. Sabino², Clareci S. Cardoso¹, Lea C. Oliveira², Ariela M. Ferreira³, Ana L. Bierrenbach², Enrico Colosimo⁴, Carlos H. Moreira⁵, Marcio Oikawa⁶, Edecio C. Neto², Antonio L. Ribeiro⁷
¹Federal University of São João del-Rei, Public Health, Divinópolis, Brazil, Sao Joao Del Rei, Brazil, ²University of Sao Paulo, São Paulo, Brazil, ³State University of Montes Claros, Montes Claros, Brazil, ⁴Federal University of Santa Maria, Santa Maria, Brazil, ⁵Institute of Tropical Medicine, São Paulo, Brazil, ⁶Federal University of ABC, São Paulo, Brazil, ⁷Federal University of Minas Gerais, Belo Horizonte, Brazil

3:15 p.m.

638

MAXIMIZING THE UTILITY OF VL CLINICAL TRIAL DATA WITHIN AN ETHICAL DATA-SHARING FRAMEWORK

Philippe J. Guerin¹, Michael Otieno²
¹Infectious Diseases Data Observatory, Oxford, United Kingdom, ²Drugs for Neglected Diseases initiative, Nairobi, Kenya

Scientific Session 42

One Health: Interface of Human Health/Animal Diseases

Convention Center - Room 339/340 (Level 300)

Monday, November 6, 1:45 p.m. - 3:30 p.m.

CHAIR

Claire Cornelius
U.S. Army, Chicago, IL, United States

Kristy Murray
Baylor College of Medicine, Houston, TX, United States

1:45 p.m.

639

EFFECTS OF HABITAT PERTURBATION ON RODENT ASSEMBLAGES AND THEIR GEOGRAPHIC DISTRIBUTIONS ALONG THE INTER-OCEANIC HIGHWAY IN MADRE DE DIOS, PERU

Maria C. Guezala¹, Tatiana P. Quevedo², J. Catherine Dupont-Turkowsky¹, Christian B. Albuja¹, Victor Pacheco³, Xiangming Xiao⁴, Yuanwei Qin⁴, A. Townsend Peterson⁵, James Mills⁶, Gabriela Salmon-Mulanovich⁷, Daniel G. Bausch⁸
¹Naval Medical Research Unit-6, Bellavista, Peru, ²RAICES, Lima, Peru, ³Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴Department of Microbiology and Plant Biology, Center for Spatial Analysis, College of Atmospheric and Geographic Sciences, University of Oklahoma, Norman, OK, United States, ⁵Department of Ecology and Evolutionary Biology, University of Kansas, Kansas, KS, United States, ⁶Population Biology, Ecology and Evolution Program, Emory University, Atlanta, GA, United States, ⁷Unidad de Desarrollo Integral Ambiente y Salud, Facultad de Salud Pública, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁸Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

2 p.m.

640

PARASITES IN THE PARK PART 2: AN EPIDEMIOLOGIC STUDY OF *TOXOCARA SP.* IN NYC PLAYGROUNDS AND USE OF A NOVEL SOIL-TRANSMITTED HELMINTH IDENTIFICATION TOOL

Donna L. Tyungu
University of Texas McGovern Medical School, Houston, TX, United States

2:15 p.m.

641

INVASIVE *POMACEA* SNAILS AS NEW HOST OF *ANGIOSTRONGYLUS CANTONENSIS* IN LAOS, CAMBODIA AND VIETNAM: IMPLICATION FOR OUTBREAKS OF EOSINOPHILIC MENINGITIS

Shan Lu¹, Yunhai Guo², Hung Manh Nguyen³, Muth Sinuon⁴, Somphou Sayasone⁵, Nathan C. Lo¹, Xiaonong Zhou², Jason Andrews¹
¹Stanford University School of Medicine, Stanford, CA, United States, ²National Institute of Parasitic Diseases, China Centers for Disease Control and Prevention, Shanghai, China, ³Institute of Ecology and Biological Resources, Vietnam Academy of Science and Technology, Hanoi, Vietnam, ⁴National Centre for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ⁵National Institute of Public Health, Vientiane, Lao People's Democratic Republic

2:30 p.m.

642

RISK FACTORS FOR MIDDLE EAST RESPIRATORY SYNDROME CORONAVIRUS (MERS-COV) SEROPOSITIVITY AMONG ANIMAL MARKET AND SLAUGHTERHOUSE WORKERS IN ABU DHABI, UNITED ARAB EMIRATES (UAE), 2014-2016

Marie E. Killerby¹, Ahmed Khudhair², Mariam Al Mulla², Kheir Abou Elkheir², Wassim Ternanni², Ziad Bandar², Stefan Weber³, Mary Khoury³, George Donnelly³, Salama Al Muhairi⁴, Abdelmalik Khalafalli⁴, Yassir Eltahir⁴, Nathalie Thornburg¹, Suvang Trivedi¹, Azaibi Tamin¹, John Watson¹, Susan Gerber¹, Aron Hall¹, Farida Al Hosani²
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Abu Dhabi Health Authority, Abu Dhabi, United Arab Emirates, ³Sheikh Khalifa Medical City, Abu Dhabi, United Arab Emirates, ⁴Abu Dhabi Food Control Authority, Abu Dhabi, United Arab Emirates

2:45 p.m.

643

EMERGING BAT PATHOGENS IN MYANMAR: A ROAD MAP FOR SURVEILLANCE OF POTENTIAL SPILLOVER RELATED TO CAVE UTILIZATION

Heather S. Davies¹, Megan E. Vodzak², Ohnmar Aung², Kyaw Yan Naing Tun², Marc Valitutto², Suzan Murray², Dawn Zimmerman², Michael E. von Fricken¹
¹George Mason University, Department of Global and Community Health,

3 p.m.

644

MEAT AND FISH AS A SOURCE OF EXPOSURE TO ANTIBIOTIC-RESISTANT ENTEROBACTERIACEAE IN PHNOM PENH, CAMBODIA

Maya Nadimpalli¹, Kruey Sun Lay², Yith Vuthy², Malika Gouali², Agathe De Lauzanne², Laurence Borand², Simon Le Hello¹, Laétitia Fabre¹, Bich-tram Huynh¹, Elisabeth Delarocque-Astagneau¹

¹Pasteur Institute, Paris, France, ²Pasteur Institute of Cambodia, Phnom Penh, Cambodia

3:15 p.m.

645

USING GPS TRACKERS TO EXPLORE FINE-SCALE HUMAN AND LIVESTOCK MOVEMENT IN BUSIA COUNTY, KENYA AND ITS IMPLICATIONS FOR ZOOSES

Jessica R. Floyd¹, Nick W. Ruktanonchai¹, Nicola Wardrop¹, Andrew J. Tatem¹, Eric M. Fèvre²

¹WorldPop Project, University of Southampton, Southampton, United Kingdom,

²Institute of Infection and Global Health, University of Liverpool, Liverpool, United Kingdom

Scientific Session 43

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

Convention Center - Room 341/342 (Level 300)

Monday, November 6, 1:45 p.m. - 3:30 p.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

John D. Chan

University of Minnesota, Minneapolis, MN, United States

Alexandra Grote

New York University, New York, NY, United States

1:45 p.m.

2007

METABOLISM AND WHIPWORM INFECTION: MTOR, AND THE LARGE NEUTRAL AMINO ACID SLC7A5, INFLUENCE RESISTANCE TO THE INTESTINAL DWELLING NEMATODE TRICHURIS MURIS

Maria Z. Krauss¹, Kevin N. Couper², Richard K. Grencis¹

¹Wellcome Centre for Cell Matrix Research, Faculty of Biology, Medicine and Health, Manchester Academic Health Science Centre, University of Manchester, Manchester, United Kingdom, ²Faculty of Biology, Medicine and Health, Manchester Academic Health Science Centre, University of Manchester, Manchester, United Kingdom

2 p.m.

646

GENE EDITING OF OMEGA-1 OF SCHISTOSOMA MANSONI BY CRISPR-CAS MODIFIES DENDRITIC CELL INFLAMMATORY RESPONSE

Wannaporn Ittiprasert¹, Victoria H. Mann¹, Shannon E. Karinshak¹, Apisit Chaidee², Christina J. Cochran¹, Paul J. Brindley¹

¹The George Washington University, Washington, DC, United States,

²The George Washington University, and Khon Kaen University, Thailand, Washington, DC, United States

(ACMCIP Abstract)

2:15 p.m.

647

DETERMINING THE MECHANISM OF ENDOSYMBIOSIS BETWEEN FILARIAL NEMATODES AND WOLBACHIA

Alexandra Grote¹, Denis Voronin², Swapna Sheshadri³, Dave Curran³, Sara

Lustigman², John Parkinson³, Elodie Ghedin¹

¹New York University, New York, NY, United States, ²New York Blood Center,

New York, NY, United States, ³University of Toronto, Toronto, ON, Canada

(ACMCIP Abstract)

2:30 p.m.

648

GLOBAL TRANSCRIPTOME ANALYSIS OF WOLBACHIA STRAIN WOO UNDER ANTIBIOTIC PRESSURE IN VIVO

Germanus S. Bah¹, Dong Xia², Ritesh Krishna², Vincent N. Tanya³, Alistair C. Darby², Ben Makepeace²

¹Institut de Recherche Agricole pour le Développement, Ngaoundéré,

Cameroon, ²University of Liverpool, Liverpool, United Kingdom, ³Cameroon Academy of Sciences, Yaoundé, Cameroon

(ACMCIP Abstract)

2:45 p.m.

649

SCHISTOSOMA HAEMATOBIIUM IPSE INDUCES CELLULAR PROLIFERATION, CELL CYCLE ALTERATIONS, ANGIOGENESIS, AND TRANSCRIPTIONAL PROFILES CONSISTENT WITH PRO-CARCINOGENIC EFFECTS

Evaristus Mbanefo¹, Irina V. Saltykova², Luke Pennington³, Theodore Jardetzky³, Burcu Ayoglu³, P. J. Utz³, Abdulaziz Alouffi⁴, Franco H. Falcone⁴, Paul J. Brindley², Michael Hsieh¹

¹Biomedical Research Institute, Rockville, MD, United States, ²Department of

Microbiology, Immunology and Tropical Medicine, and Research Center for Neglected Diseases of Poverty, George Washington University, Washington,

DC, United States, ³Stanford University, Stanford, CA, United States, ⁴School of

Pharmacy, Division of Molecular Therapeutics and Formulation, University of Nottingham, Nottingham, United Kingdom

(ACMCIP Abstract)

3 p.m.

650

INFILTRINS AS A NEW CLASS OF PATHOGEN-SECRETED, HOST NUCLEUS INFILTRATING PROTEINS IN TREMATODES

Abdulaziz Alouffi¹, Luke F. Pennington², Nigel Mongan¹, Robin J. Flynn³, David M. Heery¹, Ted Jardetzky², Evaristus C. Mbanefo⁴, Michael H. Hsieh⁴, Franco H. Falcone¹

¹University of Nottingham, Nottingham, United Kingdom, ²Stanford University

School of Medicine, Stanford, CA, United States, ³University of Liverpool,

Liverpool, United Kingdom, ⁴Biomedical Research Institute, Rockville, MD,

United States

(ACMCIP Abstract)

3:15 p.m.

651

IDENTIFICATION OF ANTHELMINTIC DRUGS BY HIGH THROUGHPUT SCREENING OF A SCHISTOSOME SEROTONIN RECEPTOR

John D. Chan, Jonathan S. Marchant
University of Minnesota, Minneapolis, MN, United States

(ACMCIP Abstract)

Scientific Session 44

Global Health: From Chagas Disease to Nephropathy and Acute Encephalitis Syndrome

Convention Center - Room 343/344 (Level 300)
Monday, November 6, 1:45 p.m. - 3:30 p.m.

CHAIR

Rebecca Fischer
Baylor College of Medicine, Houston, TX, United States

Louise Ivers
Harvard Medical School, Boston, MA, United States

1:45 p.m.

652

MINIMIZING THE COST OF CONGENITAL CHAGAS DISEASE IN THE UNITED STATES THROUGH MATERNAL SCREENING

Eileen Stillwaggon¹, Victoria Perez-Zetune², Larry Sawers³
¹*Gettysburg College, Gettysburg, PA, United States*, ²*Federal Reserve Board, Washington, DC, United States*, ³*American University, Washington, DC, United States*

2 p.m.

653

RISK FACTORS FOR ACUTE MESOAMERICAN NEPHROPATHY IN NICARAGUAN SUGAR WORKERS

Rebecca S. Fischer¹, Kaila A. Fagerstrom¹, Denis Chavarria², Sreedhar Mandayam¹, Melissa N. Garcia¹, Linda L. Garcia¹, Ruth Montenegro², Kristy O. Murray¹
¹*Baylor College of Medicine, Houston, TX, United States*, ²*Gerencia de Salud Ocupacional, Nicaragua Sugar Estates Limited, Chichigalpa, Nicaragua*

2:15 p.m.

654

BARRIERS TO PEDIATRIC INPATIENT CARE GUIDELINE ADHERENCE: A MIXED METHOD ASSESSMENT OF EIGHT HOSPITALS IN ASIA AND AFRICA

Kirkby D. Tickell¹, Dorothy I. Mangale¹, Stephanie N. Tornberg-Belanger¹, Johnstone Thitiri², Molly Timbwa³, Jenala Njirammadzi⁴, Md. Jobayer Chisti⁵, Tahmeed Ahmed⁶, Md. Al Fazal Khan⁶, Ali F. Saleem⁷, Zaubina Kazi⁷, Ezekiel Mupere⁸, John Mukisa⁸, Priya Sukhtankar⁹, James A. Berkley⁹, Judd L. Walson¹, Donna M. Denno¹
¹*University of Washington, Seattle, WA, United States*, ²*KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya*, ³*KEMRI-Wellcome Trust Research Programme, Nairobi, Kenya*, ⁴*Queen Elizabeth Central Hospital, Blantyre, Malawi*, ⁵*International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh*, ⁶*International Centre for Diarrhoeal Disease Research, Bangladesh, Matlab, Bangladesh*, ⁷*Aga Khan University, Karachi, Pakistan*, ⁸*Makerere University, Kampala, Uganda*, ⁹*University of Oxford, Oxford, United Kingdom*

2:30 p.m.

655

THE PREVALENCE AND DETERMINANTS OF DISCLOSURE OF SEXUAL PRACTICES TO OTHER FAMILY MEMBERS AMONG MEN WHO HAVE SEX WITH MEN IN LOME AND KARA, TOGO

Horacio Ruiseñor-Escudero¹, Carrie Lyons², Sosthenes Ketende², Vincent Pitche³, Simplicie Anato⁴, Jules Tshala⁵, Dometo Sodji⁶, Stefan Baral²
¹*Michigan State University, East Lansing, MI, United States*, ²*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ³*Conseil National de Lutte contre le SIDA, Lome, Togo*, ⁴*Arc en Ciel, Lome, Togo*, ⁵*Espoir Vie, Lome, Togo*, ⁶*FAMME, Lome, Togo*

2:45 p.m.

656

SEASONAL FOOD INSECURITY IN HAYDOM, TANZANIA IS ASSOCIATED WITH LOW BIRTH WEIGHT AND ACUTE MALNUTRITION: RESULTS FROM THE MAL-ED STUDY

Elizabeth T. Rogawski¹, Stephen Clark¹, Crystal Patil², Jean Gratz¹, Eric R. Houpt¹, Erling Svendsen³, Esto Mduma⁴, James A. Platts-Mills¹
¹*University of Virginia, Charlottesville, VA, United States*, ²*University of Illinois Chicago College of Nursing, Chicago, IL, United States*, ³*Haukeland University Hospital, Bergen, Norway*, ⁴*Haydom Lutheran Hospital, Haydom, United Republic of Tanzania*

3 p.m.

657

MOVING BEYOND PRIMARY HEALTH BENEFITS: EVALUATING THE IMPACT OF DRAINAGE INFRASTRUCTURE IMPROVEMENT PROJECT ON BUSINESSES AND TRAFFIC FLOW IN LUSAKA, ZAMBIA

Manjunath B. Shankar¹, Bishwa B. Adhikari¹, Sydney C. Hubbard¹, Warren Malambo², Sunkyung Kim¹, Joan M. Brunckard¹, Martin I. Meltzer¹
¹*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ²*Centers for Disease Control and Prevention, Lusaka, Zambia*

3:15 p.m.

658

REDUCTION IN CASE FATALITY RATE DUE TO ACUTE ENCEPHALITIS SYNDROME THROUGH INTEGRATED APPROACHES

Akshay C. Dhariwal¹, Rajiv Tandon², Shalini Khare², Padmalochan Biswal², Bhupendra Tripathi³, Soumya Swaminathan⁴
¹*National Vector Borne Diseases Control Programme (NVBDCP) of Ministry of Health, Government of India, New Delhi, India*, ²*PATH, New Delhi, India*, ³*Bill & Melinda Gates Foundation, New Delhi, India*, ⁴*Indian Council of Medical Research, Government of India, New Delhi, India*

TropStop Office Hours

Convention Center - Pratt Street West Lobby Foyer (Level 300)
Monday, November 6, 3 p.m. – 4 p.m.

Meet 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

Merribeth Morin
PATH Malaria Vaccine Initiative, Washington, DC, United States
Momar Ndao
McGill University, Montreal, QC, Canada

Exhibit Hall Open

Convention Center - Swing Hall (Level 100)
Monday, November 6, 3:15 p.m. - 4:15 p.m.

Coffee Break

Convention Center - Swing Hall (Level 100)

Monday, November 6, 3:30 p.m. - 4 p.m.

Poster Session A Dismantle

Convention Center - Hall F and G (Level 100)

Monday, November 6, 4 p.m. - 6:15 p.m.

Symposium 45

American Committee on Arthropod-Borne Viruses (ACAV) Symposium II: Tick-Borne Viruses

Convention Center - Ballroom I (Level 400)

Monday, November 6, 4 p.m. - 5:45 p.m.

Viruses transmitted by tick vectors are distributed worldwide but are generally understudied and poorly understood. This symposium focuses on current research into the perpetuation and pathogenesis of tick-borne viruses.

CHAIR

Gregory Ebel

Colorado State University, Fort Collins, CO, United States

Laura Kramer

Wadsworth Center, Albany, NY, United States

4 p.m.

TICK-BORNE ENCEPHALITIS - FROM GIS TO NGS

Gerhard Dobler

Bundeswehr Institute of Microbiology, Munich, Germany

4:20 p.m.

TICK-BORNE ENCEPHALITIS VIRUS VS. VIPERIN: MECHANISMS OF AN POTENT ANTIVIRAL PROTEIN

Anna Overby

Umea University, Umea, Sweden

4:40 p.m.

TICK-BORNE VIRUS WORK IN MAXIMUM BIOCONTAINMENT: CHALLENGES AND CURRENT FINDINGS

Dennis A. Bente

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

5 p.m.

TRIM PROTEINS IN HOST DEFENSE AGAINST TICK-BORNE ENCEPHALITIS VIRUS

Sonja Best

National Institute of Allergy and Infectious Diseases, Hamilton, MT, United States

Symposium 46

Alan Magill Symposium on Malaria Eradication

Convention Center - Ballroom II (Level 400)

Monday, November 6, 4 p.m. - 5:45 p.m.

Supported with funding from the Bill & Melinda Gates Foundation



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

ASTMH to summarize the challenge and advances in areas of relevance to the elimination and eradication effort. This year the key topics will include a review of key concepts and potential interventions for residual transmission; the challenge of including fragile populations in the elimination strategy; the approaches being taken by the 21 countries that are aiming to achieve at least one year of no indigenous transmission by 2020; and the new focus on the *P. vivax* research and elimination agenda. 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.

CHAIR

Regina Rabinovich

Harvard T.H. Chan School of Public Health, Boston, MA, United States

Scott Miller

Bill & Melinda Gates Foundation, Seattle, WA, United States

4 p.m.

COUNTRY-DRIVEN AND COUNTRY-OWNED: THE E-2020 INITIATIVE

Kim Lindblade

World Health Organization, Geneva, Switzerland

4:20 p.m.

THE PAST, PRESENT AND THREATENED FUTURE OF RESIDUAL MALARIA TRANSMISSION

Gerry Killeen

Liverpool School of Tropical Medicine and Ifakara Health Institute, Dar Es Salaam, United Republic of Tanzania

4:40 p.m.

CHALLENGES TO INCLUSION IN THE ELIMINATION AGENDA: MALARIA IN WOMEN OF CHILD BEARING POTENTIAL

Clara Menendez

Barcelona Institute for Global Health, Barcelona, Spain

5 p.m.

TARGETING VIVAX MALARIA

Ivo Mueller

Institut Pasteur, Paris, France

Scientific Session 47

Malaria: Enhancing and Optimizing Quality of Care

Convention Center - Ballroom III (Level 400)

Monday, November 6, 4 p.m. - 5:45 p.m.

CHAIR

Kent Kester

Sanofi Pasteur, Swiftwater, PA, United States

Noella Umulisa

Jhpiego, Kigali, Rwanda

4 p.m.

659

USING G6PD TESTS TO ENABLE THE SAFE TREATMENT OF *PLASMODIUM VIVAX* INFECTIONS WITH PRIMAQUINE ON THE THAILAND-MYANMAR BORDER: A COST-EFFECTIVENESS ANALYSIS

Angela Devine¹, Minnie Parmiter², Cindy S. Chu³, Germana Bancone³, François Nosten¹, Ric Price⁴, Yoel Lubell¹, Shunmay Yeung⁵

¹Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand, ²Boyd Orr Centre, University of Glasgow, Glasgow, United Kingdom, ³Shoklo Malaria Research Unit, Mae Sot, Thailand, ⁴Global and Tropical Health Division, Menzies School of Health Research and Charles Darwin University, Darwin, Australia, ⁵Mahidol Faculty of Infectious and Tropical Disease, The London School of Hygiene & Tropical Medicine-Oxford Tropical Medicine Research Unit, London, United Kingdom

4:15 p.m.

660

DEVELOPMENT OF THE WHO INTERNATIONAL EXTERNAL QUALITY ASSURANCE SCHEME FOR MALARIA NUCLEIC ACID AMPLIFICATION TECHNIQUES

Jaya Shrivastava¹, Jane Cunningham², Sandra Incardona³, Agatha C. Saez¹, Peter L. Chiodini⁴

¹Public Health England, London, United Kingdom, ²World Health Organization, Geneva, Switzerland, ³Foundation for Innovative New Diagnostics, Geneva, Switzerland, ⁴Hospital for Tropical Diseases, London, United Kingdom

(ACMCIP Abstract)

4:30 p.m.

661

CLINICAL AND LABORATORY PREDICTORS OF SEVERE KNOWLESII MALARIA: IMPLICATIONS FOR INITIATION OF PARENTERAL ARTESUNATE TREATMENT AND HOSPITAL REFERRAL

Matthew J. Grigg

Menzies School of Health Research and Charles Darwin University, Darwin, Australia

4:45 p.m.

662

BUILDING AND MAINTAINING HEALTH CARE WORKER PERFORMANCE OF MALARIA RAPID DIAGNOSTIC TESTS IN EIGHT SUB-SAHARAN AFRICAN COUNTRIES

James Eliades¹, Victoria Longa Kalota², Arune Estavela³, Fozo Alombah¹, Kelly Davis¹, Jolene Wun¹

¹President's Malaria Initiative MalariaCare Project, PATH, Washington, DC, United States, ²President's Malaria Initiative MalariaCare Project, Medical Care Development International, Lusaka, Zambia, ³President's Malaria Initiative MalariaCare Project, PATH, Maputo, Mozambique

5 p.m.

663

USING OUTREACH TRAINING AND SUPPORTIVE SUPERVISION TO MAINTAIN MICROSCOPY COMPETENCY IN SEVEN SUB-SAHARAN AFRICAN COUNTRIES

Troy Martin¹, Nicole Whitehurst², Rodgers Dena Mwinga³, Séraphine Kutumbakana⁴, Petros Chirambo⁵, Kelly Davis⁶, Jolene Wun⁶

¹President's Malaria Initiative MalariaCare Project, PATH, Seattle, WA, United States, ²President's Malaria Initiative MalariaCare Project, Medical Care Development International, Silver Spring, MD, United States, ³President's Malaria Initiative MalariaCare Project, PATH, Nairobi, Kenya, ⁴President's Malaria Initiative MalariaCare Project, PATH, Kinshasa, Democratic Republic of the Congo, ⁵President's Malaria Initiative MalariaCare Project, PATH, Lilongwe, Malawi, ⁶President's Malaria Initiative MalariaCare Project, PATH, Washington, DC, United States

5:15 p.m.

664

PERFORMANCE ASSESSMENT OF LABORATORY TECHNICIANS ON MALARIA MICROSCOPY IN 5 HIGH ENDEMIC DISTRICTS OF RWANDA

Noella Umulisa¹, Angélique Mugirentse¹, Tharcisse Munyaneza², Aniceth Rucogoza², Aline Uwimana³, Beata Mukarugwiro¹, Stephen Mutwiwa¹, Aimable Mbituyumuremyi³

¹Maternal and Child Survival Program/Jhpiego Rwanda, Kigali, Rwanda, ²National Reference Laboratory (NRL), Rwanda Biomedical Centre (RBC), Kigali, Rwanda, ³Malaria and Other Parasitic Diseases Division (Mal and OPDD), Kigali, Rwanda

5:30 p.m.

665

IMPLEMENTATION OF A QUALITY IMPROVEMENT APPROACH FOR MALARIA SERVICE DELIVERY IN ZAMBEZIA PROVINCE, MOZAMBIQUE

Baltazar Candrinho¹, Armindo Tiago², Custodio Cruz², Mercino Ombe², Katherine Wolf³, Maria da Luz Vaz², Connie Lee³

¹National Malaria Control Program, Ministry of Health, Maputo, Mozambique, ²Maternal and Child Survival Program/Jhpiego, Maputo, Mozambique, ³Jhpiego, Baltimore, MD, United States

Scientific Session 48

Clinical Tropical Medicine I

Convention Center - Ballroom IV (Level 400)

Monday, November 6, 4 p.m. - 5:45 p.m.

CHAIR

Janine Danko

Walter Reed National Military Medical Center, Bethesda, MD, United States

4 p.m.

666

A LARGE NON-HIV OUTBREAK OF AFRICAN HISTOPLASMOISIS IN RURAL COMMUNITY IN KIMPESE CITY, DEMOCRATIC REPUBLIC OF CONGO

Nestor Muyulu Pakasa¹, Asaf Biber², Samuel Zele Nsiangana³, Désiré H. Imposo³, Ernest Kiswaya Sumaili¹, Hypolite Muhindo Mavoko¹, Ali Mapatano⁴, Iris Barshack², Eli Schwartz²

¹University of Kinshasa Hospital, Kinshasa, Democratic Republic of the Congo, ²The Chaim Sheba Medical Center, Ramat Gan, Israel, ³IME Kimpese, Kimpese, Democratic Republic of the Congo, ⁴University of Kinshasa, Kinshasa, Democratic Republic of the Congo

4:15 p.m.

667

EFFECT OF ANTI-MYCOBACTERIUM TUBERCULOSIS THERAPY ON MORTALITY AMONG HIV-INFECTED PATIENTS ADMITTED WITH SEVERE SEPSIS TO A REGIONAL REFERRAL HOSPITAL IN UGANDA

Riley H. Hazard¹, Sumit Agarwal¹, Christopher C. Moore¹, Abdallah Amir²
¹University of Virginia, Charlottesville, VA, United States, ²Mbarara Regional Referral Hospital, Mbarara, Uganda

4:30 p.m.

668

IMMUNE RESPONSE FOLLOWING REACTIVE VACCINATION CAMPAIGN USING FRACTIONAL DOSE YELLOW FEVER VACCINE — KINSHASA, DEMOCRATIC REPUBLIC OF CONGO, 2016

Rebecca M. Casey¹, Meredith Dixon², Steve Ahuka-Mundeke³, Jennifer Harris², Kizito Mbunzu³, Pierre Mutantu³, Janeen Laven⁴, Gilson Paluku², Abdou Salam Gueye⁵, Terri B. Hyde², J. Erin Staples⁴, Jean-Jacques Muyembe-Tamfum³
¹Epidemic Intelligence Service, Global Immunization Division, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Global Immunization Division, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Institut National de Recherche Biomédicale, Laboratoire de virologie, Kinshasa, Democratic Republic of the Congo, ⁴Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States, ⁵Division of Global Health Protection, Centers for Disease Control and Prevention, Kinshasa, Democratic Republic of the Congo

4:45 p.m.

669

CEREBROSPINAL FLUID MARKERS TO DISTINGUISH BACTERIAL MENINGITIS FROM CEREBRAL MALARIA IN CHILDREN

James M. Njunge
KEMRI-Wellcome Trust Programme, Kilifi, Kenya

5 p.m.

670

CONTRIBUTING FACTORS FOR ANEMIA IN YOUNG CHILDREN IN COASTAL KENYA

Julia Kao¹, Francis Mutuku², Shanique Martin¹, Justin Lee¹, Jackson Muinde³, Dunstan Mukoko⁴, Indu Malhotra⁵, Charles King⁵, A. Desiree LaBeaud¹
¹Stanford School of Medicine, Stanford, CA, United States, ²Technical University of Mombasa, Mombasa, Kenya, ³Ministry of Health Kwale, Mombasa, Kenya, ⁴Ministry of Health, Nairobi, Kenya, ⁵Case Western Reserve University, Cleveland, OH, United States

5:15 p.m.

671

CAUSES OF NON-TRAUMATIC PARAPLEGIA IN MALAWI

Eduard E. Zijlstra¹, Jaap van Hellemond², Nyengo Mkandawire³, Juri Katchanov⁴, Camilla Rothe⁵
¹Rotterdam Centre for Tropical Medicine, Rotterdam, Netherlands, ²Erasmus Medical Center, Rotterdam, Netherlands, ³College of Medicine, Blantyre, Malawi, ⁴University Hospital Hamburg-Eppendorf, Hamburg, Germany, ⁵University Medical Center Hamburg Eppendorf, Hamburg, Germany

5:30 p.m.

672

ACUTE KIDNEY INJURY FOLLOWING MULTIPLE WASP STINGS - A CLINICOPATHOLOGICAL STUDY FROM A MOUNTAINOUS STATE OF INDIA

Sanjay Vikrant
Indira Gandhi Medical College, Shimla (Himachal Pradesh), India

Symposium 49

Climate Change and Health: Tracking Implementation of the Paris Agreement

Convention Center - Room 318/319/320 (Level 300)
Monday, November 6, 4 p.m. - 5:45 p.m.

The impacts of climate change on health are only recently being fully appreciated and the health co-benefits of addressing climate change are now widely recognized. Indeed, the 2015 Lancet Commission argued that the response to climate change could be “the greatest global health opportunity of the 21st century”. Following from this work, the Lancet Countdown: Tracking Progress on Health and Climate Change was launched. The Lancet Countdown is a global, interdisciplinary research initiative working to monitor action on climate change and the health benefits associated with this. This symposium will bring together experts in health and climate change. Experts from the Lancet Countdown and colleagues will discuss how the Lancet Countdown’s indicators will track the implementation of the Paris Agreement, while demonstrating the health co-benefits associated with this; the current health impacts climate change is having globally; and presenting the evidence on how climate change will further affect health in the future if action on climate change remains unabated. This symposium will present the results from the first Lancet Countdown paper reporting on their health and climate change indicators. The five thematic groups of the Lancet Countdown will be presented and discussed, along with the associated indicators and findings. These groups are: health impacts of climate change; adaptation and resilience; co-benefits of mitigation; economics and finance; and political and broader engagement. The broader political significance of these findings will be discussed and the successful implementation of the Paris Agreement to date will be debated. Furthermore, the symposium will also consider the impact that climate change is having on the health of indigenous communities in Peru and how this may evolve in future as the climate changes in these localities. Additionally, the speakers will discuss the policy implications and challenges of climate change, and its impacts on health, using Peru and more widely South America as a case study.

CHAIR

Andres G. Lescano
Universidad Peruana Cayetano Heredia, School of Public Health and Administration, Lima, Peru

Nick Watts
The Lancet Countdown: Tracking Progress on Health and Climate Change, London, United Kingdom

4 p.m.

THE LANCET COUNTDOWN TO 2030: TRACKING PROGRESS ON HEALTH AND CLIMATE CHANGE

Nick Watts
The Lancet Countdown: Tracking Progress on Health and Climate Change, London, United Kingdom

4:20 p.m.

THE IMPLICATIONS OF THE PARIS AGREEMENT ON HEALTH AND POLICY CHALLENGES

Howard Frumkin

The University of Washington, School of Public Health, Seattle, WA, United States

4:40 p.m.

THE IMPACT OF THE 2017 COASTAL EL NIÑO IN PERU

Andres G. Lescano

Universidad Peruana Cayetano Heredia, School of Public Health and Administration, Lima, Peru

5 p.m.

PERU, A CASE STUDY ON CLIMATE CHANGE AND HEALTH

Armando Valdes-Velasquez

Universidad Peruana Cayetano Heredia, Lima, Peru

Symposium 50

Current Molecular Approaches for Tracking the Origin and Spread of Malaria Infections

Convention Center - Room 321/322/323 (Level 300)

Monday, November 6, 4 p.m. - 5:45 p.m.

Being able to accurately diagnose and track the spread of infectious disease is critical to develop public health policies and practice. However, slow data generation and analysis times due to the lack of standardized and streamlined workflows have limited this technology to the research realm. Molecular tools hold great promise for malaria control and elimination, but efficient development of such tools requires coordination by the malaria research community on best practice, and to share ideas and experiences. This symposium will bring together four experts in malaria molecular and genomic epidemiology who are developing methods for genotyping parasites and associated analytical tools to monitor population structure and track parasite flow and origins. Working in diverse malaria endemic areas including Africa, Southeast Asia, South America and Oceania and on both major human malaria parasites, *P. falciparum* and *P. vivax*, these researchers are developing these tools to support the goals of national malaria control programs. They will discuss their unique approaches and experiences in the development of these tools and future perspectives for this growing area of research. Speakers will focus on different panels of markers including whole genome sequencing, single nucleotide polymorphisms (SNPs), microsatellites and drug resistance *loci*. This symposium aims to advance several goals such as: (i) bring together leaders in the field to share their insights with each other and the wider community, (ii) identify others in the community interested in conducting these studies or already working in this area, (iii) discuss the potential of a universal approach in addition to specialized local approaches designed specifically to target certain populations and (iv) develop a set of agreed minimum markers as standard for large genotyping studies in order to allow different datasets to be combined. This will ensure the research and malaria control communities gain maximum benefit from ongoing studies, and the translation of this important research to useful tools for malaria endemic countries aiming to eliminate the disease.

CHAIR

Alyssa Barry

Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia

Bryan Greenhouse

University of California, San Francisco, CA, United States

4 p.m.

BARCODING USING LOCALLY DERIVED SNPS REVEALS COUNTRYWIDE TRANSMISSION NETWORKS OF *PLASMODIUM FALCIPARUM* AND IDENTIFIES THE SOURCE OF INFECTIONS IN OCEANIA

Alyssa Barry

Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia

4:20 p.m.

TRACKING THE LOCAL AND REGIONAL SPREAD OF *PLASMODIUM FALCIPARUM* IN LOW TRANSMISSION SETTINGS OF AFRICA

Bryan Greenhouse

University of California, San Francisco, United States

4:40 p.m.

SPATIAL AND TEMPORAL GENOMIC DIVERSITY OF *PLASMODIUM FALCIPARUM* IN SOUTHEAST ASIA PROVIDES INSIGHT INTO PARASITE MIGRATION PATTERNS

Shannon Takala

University of Maryland School of Medicine, Center for Vaccine Development, Baltimore, MD, United States

5 p.m.

TRANSLATING POPULATION GENETICS INTO MOLECULAR EPIDEMIOLOGY: INCORPORATING PARASITE DEMOGRAPHY INTO EPIDEMIOLOGICAL STUDIES IN LATIN AMERICA

Anais Escalante

Temple University, Philadelphia, PA, United States

Scientific Session 51

Mosquitoes: Biochemistry and Molecular Biology

Convention Center - Room 324/325/326 (Level 300)

Monday, November 6, 4 p.m. - 5:45 p.m.

CHAIR

Yesseinia Anglero

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Ines Martin-Martin

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

4 p.m.

673

EFFECT OF HUMAN C5A PROTEIN ON MOSQUITO CELLS AND ITS IMPLICATIONS IN ZIKA VIRUS TRANSMISSION

Donghun Kim¹, Seokyoung Kang², Crystal Gripping³, Mauricio Figueroa-Lozano⁴, Tonya M. Colpitts⁵, George Dimopoulos², Yoonseong Park¹, Berlin L. Londono-Renteria¹

¹Kansas State University, Manhattan, KS, United States, ²Department of Molecular Microbiology and Immunology, Johns Hopkins University, Baltimore, MD, United States, ³Department of Tropical Medicine, Tulane University, New Orleans, LA, United States, ⁴Universidad de Pamplona, Pamplona, Colombia, ⁵University of South Carolina, Columbia, SC, United States

4:15 p.m.

674

ZIKA-AEDES MOLECULAR INTERACTIONS AND MOSQUITO IMMUNITY-MEDIATED VIRAL SUPPRESSION

Yesseinia I. Anglero-Rodriguez, Hannah MacLeod, Seokyoung Kang, Jenny Carlson, Natapong Jupatanakul, George Dimopoulos
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4:30 p.m.

675

CHEMICAL DEPLETION OF GRANULOCYTES REVEALS CONTRIBUTIONS OF HEMOCYTES TO ANTI-PLASMODIUM IMMUNITY

Hyeogsun Kwon, Ryan C. Smith
Department of Entomology, Iowa State University, Ames, IA, United States

4:45 p.m.

676

LOSS-OF-FUNCTION STUDIES WITH KNOCK OUT AEDES AEGYPTI LINES GENERATED BY CRISPR/CAS9 HIGHLIGHT THE PHYSIOLOGICAL RELEVANCE OF SALIVARY D7 PROTEINS IN BLOOD FEEDING AND PARASITE TRANSMISSION

Ines Martin-Martin¹, Azadeh Aryan², Jose M. Ribeiro¹, Zach Adelman³, Eric Calvo¹
¹National Institutes of Health, Rockville, MD, United States, ²Virginia Tech University, Blacksburg, VA, United States, ³Texas A&M University, College Station, TX, United States

5 p.m.

677

IDENTIFICATION OF A RECEPTOR FOR PLASMODIUM FALCIPARUM PFS47 IN THE ANOPHELES GAMBIAE MIDGUT

Alvaro Molina-Cruz, Gaspar Canepa, Simardeep Nagyal, Smith Agyingi, Thiago Silva, Nathanie Trisnadi, Eric Calvo, Carolina Barillas-Mury
National Institutes of Health, Rockville, MD, United States

5:15 p.m.

678

FACTORS TRIGGERING PLASMODIUM DEVELOPMENT FOLLOWING ANOPHELES SALIVARY GLAND INVASION

Mai I. Hussein¹, Belal A. Soliman¹, Maha K. Tewfick¹, Kristina Pilitt², David A. O'Brochta²
¹Department of Zoology, Faculty of Science, Suez University, Suez, Egypt, ²Institute for Bioscience and Biotechnology Research, University of Maryland-College Park, Rockville, MD, United States

5:30 p.m.

679

THE ROLE OF TWO FEMALE ATRIAL PROTEASES IN THE REFRACTORINESS OF ANOPHELES GAMBIAE MOSQUITOES TO FURTHER MATINGS

Priscila Bascuñan¹, Paolo Gabrieli², Enzo Mameli¹, Robert Shaw³, Matthew Peirce², Flaminia Catteruccia¹
¹University of Perugia/Harvard School of Public Health, Boston, MA, United States, ²University of Perugia, Perugia, Italy, ³Harvard School of Public Health, Boston, MA, United States

Symposium 52

Lessons from the Ebola Survivors and Clinical Implications: Ebola Viral RNA Persistence, Ebola Survivors' Birth Cohort Findings and Longer-Term Ophthalmologic Findings

Convention Center - Room 327/328/329 (Level 300)
Monday, November 6, 4 p.m. - 5:45 p.m.

The 2014-2016 West African Ebola outbreak provided an unprecedented opportunity to understand the clinical, virologic and immunologic consequences of human Ebola virus disease. This symposium highlights recent findings from studies of Ebola survivors. The first talk will focus on longitudinal analysis of Ebola viral RNA shedding in seminal fluid, including mathematical modeling of clearance parameters and infectivity testing in mouse model. In addition, the talk will highlight the risk of virus transmission due to virus persistence in seminal fluid and breast milk. The second presentation will describe retrospectively case cohort study trying to identify clinical characteristics of Ebola virus disease which correlate with the phenotype of Ebola viral persistence, as well as a description of Ebola viral RNA shedding. The next talk will describe the immunologic, virologic and clinical results of a Survivor Birth Cohort Sub-study for pregnant Ebola survivors and their offspring. Finally, data on longer prospective ophthalmologic findings in Ebola survivors, versus controls, and the clinical care implications will be presented.

CHAIR

Elizabeth S. Higgs
National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States
Mosoka P. Fallah
Liberian National Public Health Institute, Monrovia, Liberia

4 p.m.

PERSISTENCE OF EBOLA VIRUS RNA IN BODY FLUIDS OF EBOLA VIRUS DISEASE SURVIVORS: MODELLING OF CLEARANCE AND RISK OF TRANSMISSION

Stephan Günther
Bernhard-Nocht-Institute for Tropical Medicine, Hamburg, Germany

4:20 p.m.

SEMINAL EBOLA VIRAL PERSISTENCE: PREDICTORS, PATTERNS AND DECAY

James Soka Moses
Liberian Ministry of Health and Partnership for Ebola Research in Liberia, Monrovia, Liberia

4:20 p.m.

SEMINAL EBOLA VIRAL PERSISTENCE: PREDICTORS, PATTERNS AND DECAY

Dehkontee Gayedyu-Dennis
Partnership for Research on Ebola Virus, Monrovia, Liberia

4:40 p.m.

PROSPECTIVE RESULTS OF THE PREVAIL BIRTH COHORT SURVIVOR STUDY

Mosoka P. Fallah
National Public Health Institute of Liberia, Monrovia, Liberia

Monday
November 6

5 p.m.

LONG-TERM OPHTHALMIC FINDINGS AND CLINICAL CARE IMPLICATIONS IN EBOLA SURVIVORS

Rachel J. Bishop

National Eye Institute, National Institutes of Health, Baltimore, MD, United States

Allen Eghrari

Wilmer Eye Institute, Baltimore, MD, United States

Scientific Session 53

Water, Sanitation, Hygiene and Environmental Health II

Convention Center - Room 331/332 (Level 300)

Monday, November 6, 4 p.m. - 5:45 p.m.

CHAIR

Jade Benjamin-Chung

University of California Berkeley, Berkeley, CA, United States

David Berendes

Georgia Institute of Technology, Atlanta, GA, United States

4 p.m.

680

EFFECTIVENESS OF HAND SANITIZER WITH HAND AND RESPIRATORY HYGIENE EDUCATION IN REDUCING INFLUENZA-LIKE ILLNESS AND LABORATORY CONFIRMED INFLUENZA AMONG SCHOOL CHILDREN IN BANGLADESH, 2015

Debashish Biswas¹, Fahmida Chowdhury¹, Katherine Roguski², Makhdom Ahmed³, Fosiul A. Nizame¹, Shahana Parveen¹, Probir K. Ghosh¹, Sazzad H. Khan¹, A. Danielle Iuliano²

¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³University of Texas M.D. Anderson Cancer Center and University of Texas Health Science Center, Houston, TX, United States

4:15 p.m.

681

SPILLOVER EFFECTS OF A COMBINED WATER, SANITATION AND HANDWASHING INTERVENTION IN RURAL BANGLADESH: A RANDOMIZED CONTROLLED TRIAL

Jade Benjamin-Chung¹, Nuhu Amin², Ayse Ercumen¹, Benjamin F. Arnold¹, Alan Hubbard¹, Leanne Unicomb², Mahbubur Rahman², Stephen P. Luby³, John M. Colford, Jr.¹

¹University of California Berkeley, Berkeley, CA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Stanford University, Stanford, CA, United States

4:30 p.m.

682

THE ROLE OF THE ENVIRONMENT IN ROTAVIRUS TRANSMISSION: TEMPERATURE AND HYDROLOGIC FACTORS

Alicia N. Kraay¹, Nan Lin¹, Andrew F. Brouwer¹, Justin V. Remais², Phillip A. Collender², Joseph N. Eisenberg¹

¹University of Michigan Ann Arbor, Ann Arbor, MI, United States, ²University of California Berkeley, Berkeley, CA, United States

4:45 p.m.

683

IDENTIFICATION OF SPECIFIC ENTEROPATHOGENS AS PREDICTORS OF LINEAR DECLINE IN ENVIRONMENTAL ENTERIC DYSFUNCTION

Sana Syed¹, Najeeha T. Iqbal², Furqan Kabir², Tauseef Akhund², Shahida Qureshi², Jie Liu³, Jennie Z. Ma³, Shan Guleria³, Molly A. Hughes³, Kamran Sadiq², S. Asad Ali²

¹University of Virginia/Aga Khan University, Charlottesville, VA, USA/Karachi, Pakistan, ²Aga Khan University, Karachi, Pakistan, ³University of Virginia, Charlottesville, VA, United States

5 p.m.

684

ANTIBIOTIC RESISTANCE IN DENSE, LOW-INCOME NEIGHBORHOODS: THE ROLE OF SANITATION IN GENE DISPERSION

David Berendes¹, David Holcomb², Jackie Knee¹, Trent Sumner¹, Rassul Nala³, Joe Brown¹

¹Georgia Institute of Technology, Atlanta, GA, United States, ²University of North Carolina, Chapel Hill, NC, United States, ³Ministerio da Saude, Maputo, Mozambique

5:15 p.m.

685

EVALUATION OF WATER, SANITATION, AND HYGIENE INFRASTRUCTURE IN RURAL HEALTHCARE FACILITIES — KAMWENGE DISTRICT, UGANDA, 2017

Jarred Mcateer¹, Sae-Rom Chae¹, Emily Atuheire², Daniel Kadobera², Alex R. Ario², Rob Quick¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Uganda Public Health Fellowship Program, Kampala, Uganda

5:30 p.m.

686

EVALUATION OF A LARGE-SCALE DISTRIBUTION OF WATER FILTERS IN WESTERN PROVINCE, RWANDA

Miles A. Kirby¹, Corey Nagel², Ghislaine Rosa³, Laura Zambrano¹, Marie Mediatrice Umupfasoni⁴, Florian Ndagijimana⁴, Evan Thomas⁵, Thomas Clasen¹

¹Emory Rollins School of Public Health, Atlanta, GA, United States, ²Oregon Health & Science University, Portland, OR, United States, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴DeAgua Health, Kigali, Rwanda, ⁵Portland State University, Portland, OR, United States

Symposium 54

'Leaving No One Behind' The Key to Achieving NTD Elimination? Tools for Programs to Ensure and Measure Equity

Convention Center - Room 337/338 (Level 300)

Monday, November 6, 4 p.m. - 5:45 p.m.

This symposium will highlight critical achievements and challenges of disease control interventions for Neglected Tropical Diseases (NTDs) in equitably reaching those populations most vulnerable to being 'left behind' in the Sustainable Development Goals (SDGs) agenda. The symposium will then focus on emerging evidence of barriers to equity of access as control programs shift to elimination as the end goal. The session will aim specifically at program implementers and how they can look to set and monitor effective equity targets and practices within NTD elimination, evaluating both piloted and embedded tools. The SDGs are underpinned by equity and justice, reinforced by the 'leave no one behind' commitment by global leaders. Specifically cited as a global health threat (SDG3), NTDs, affect over 1 billion of the world's poorest, most vulnerable populations and are often regarded as potential 'tracers' for other SDGs concerned with equitable access such as Universal Health Care and Sanitation. Over the last few years, equity and inclusion has become an emergent and critical part of established program monitoring tools. Programs have endeavored to better define and quantify equity and have tested a number of tools for measuring it. When

viewed through an intersectional lens, a complex picture of equity emerges. Access to health interventions is often mediated through a number of social factors, including refugee status, educational enrolment, age, gender, dis/ability and socioeconomic status. When such factors are not considered in program planning and implementation equity is unlikely to be achieved. In addition, repetitive exclusion of such individuals from control programs places these individuals at higher risk of infection and transmission of NTDs. While a rights based approach to health care and the global thrust towards equity demands that vulnerable individuals/groups be treated, we address the additional question of whether failing to reach them could also compromise program effectiveness in breaking transmission cycles or indeed, whether NTD programs' (often unintentional) practices of exclusion could compound social inequity. Presentations are arranged around different vulnerable groups (including non-enrolled children, refugees, gender groups and people with disabilities), crossing a spectrum of NTDs. Each speaker will present new data on the equity of PC (or other control program) coverage, the relevance to control and elimination as well as discussions of the future of measurement of equity and appropriate program adjustments.

CHAIR

Elizabeth Elhassan
Sightsavers, Accra, Ghana

Fiona Fleming
Imperial College London, Schistosomiasis Control Initiative, London, United Kingdom

4 p.m.

REACHING NON-ENROLLED CHILDREN AND UNDER 5S THROUGH A SCHOOL BASED PLATFORM AND USING HOUSEHOLD SURVEYS TO ESTIMATE COVERAGE IN STH AND SCHISTOSOMIASIS PROGRAMS

Jane Whitton
Schistosomiasis Control Initiative, London, United Kingdom

4:15 p.m.

REACHING NON-ENROLLED CHILDREN AND UNDER 5S THROUGH A SCHOOL BASED PLATFORM AND USING HOUSEHOLD SURVEYS TO ESTIMATE COVERAGE IN STH AND SCHISTOSOMIASIS PROGRAMS

Deepak Yadav
Evidence Action Deworm the World Initiative, New Delhi, India

4:30 p.m.

MEASURING ACCESS BY DISABILITY STATUS AND WEALTH IN INTEGRATED TRACHOMA, ONCHOCERCIASIS AND LF PROGRAMS IN 4 AFRICAN COUNTRIES

Nazzaradden Ibrahim
Sightsavers, Kaduna, Nigeria

4:50 p.m.

AN ETHNOGRAPHIC CASE STUDY OF GOVERNANCE ISSUES AFFECTING REFUGEES IN THE UGANDA SLEEPING SICKNESS PROGRAM

Jennifer Palmer
University of Edinburgh, Centre of African Studies, Edinburgh, United Kingdom

5:10 p.m.

PILOTING THE WHO EQUITY TOOL TO MEASURE ACCESS BY GENDER IN NIGERIA

Oluwatosin Adekeye
COUNTDOWN (Joint initiative between Liverpool School Tropical Medicine and Sightsavers), Kaduna, Nigeria

Symposium 55

Doing Global Health Research in an Unequal World: Ethics Case Studies from Africa

Convention Center - Room 339/340 (Level 300)

Monday, November 6, 4 p.m. - 5:45 p.m.

This symposium aims to fill the gap between ethics guidelines and their implementation on the ground. Within transnational medical research there is a disjuncture between 'regulatory ethics' – the moral principles imbued in rules set out by ethics review boards and official documents – and 'relational ethics', which refers to the complex and spontaneous pursuit of morally right actions in social interactions with others. Reflecting on relational ethics is particularly crucial in Africa where global health research invariably involves major economic and political inequalities. Such things are often hard to talk about. Being explicit about inequality and its effects can be embarrassing, even humiliating, and there are limited outlets for discussion of such messy ethical issues within the pressures of time-limited trials. Through a creative format of talks and case study materials, this symposium will give ASTMH attendees a space to engage in these important ethical deliberations. The session will open with two keynote talks. The first of which will outline the broad field of ethics in global health research, drawing on work on practical ethical issues arising in genomic research in Africa. The next keynote talk will focus on the perspective of 'ethics-in-the-field.' The second part of the symposium will use case study material to provoke discussion. This section will begin with an introduction to the case study method for encouraging ethical deliberation, followed by a talk about a GLOBVAC-funded research project on the ethics of North/South collaboration in transnational medical research in East Africa and a facilitated discussion of a relational ethics case study 'Whose Capacity?'. The next speaker will introduce the second case study by reflecting on the challenges created by boundaries between research and intervention.

CHAIR

Gemma J. Aallah
Royal Anthropological Institute/London School of Hygiene & Tropical Medicine, London, United Kingdom

Ogobara Doumbo
University of Bamako, Bamako, Mali

4 p.m.

ETHICS IN GLOBAL HEALTH RESEARCH

Paulina Tindana
Navrongo Health Research Centre, Ghana Health Service, Navrongo, Ghana

4:20 p.m.

ETHICS IN THE FIELD

Ogobara Doumbo
University of Bamako, Bamako, Mali

4:30 p.m.

WHOSE CAPACITY? COLLABORATION THROUGH CAPACITY BUILDING

Ferdinand Okwaro
University of Oslo, Oslo, Norway

4:45 p.m.

HUNGER IS NOT OUR MANDATE: DEALING WITH POVERTY AMONG RESEARCH PARTICIPANTS

Jennifer Stevenson
Johns Hopkins Malaria Research Institute, Macha, Zambia

5 p.m.

THE CASE STUDY METHOD FOR ETHICAL DELIBERATION

Tracey Chantler
London School of Hygiene & Tropical Medicine, London, United Kingdom

5:15 p.m.

FACILITATOR, CASE STUDY DISCUSSION

Philister Madiega
Kenya Medical Research Institute, Kisumu, Kenya

Scientific Session 56

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

Convention Center - Room 341/342 (Level 300)
Monday, November 6, 4 p.m. - 5:45 p.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Britt Andersen
Washington University School of Medicine, St. Louis, MO, United States

Michael Andrew Kron
Medical College of Wisconsin, Milwaukee, WI, United States

4 p.m.

2008

BONE MARROW-DERIVED MONOCYTES MEDIATE HOST PROTECTIVE RESPONSES TO TRICHINELLA SPIRALIS

Chandler Sy, Everett Henry, Juan Manuel Inclan Rico, Mark Siracusa
The Rutgers Graduate School of Biomedical Sciences (GSBS), Newark, NJ, United States

4:15 p.m.

687

THE EFFECT OF CHRONIC HELMINTH INFECTION ON IGE-MEDIATED ANAPHYLAXIS IN SENSITIZED MICE

Laura E. Kropp, Edward Mitre
Uniformed Services University, Bethesda, MD, United States

4:30 p.m.

688

INTERLEUKIN 13 AND HEDGEHOG SIGNALING PATHWAYS REGULATE FIBROSIS COLLABORATIVELY IN SCHISTOSOMIASIS MANSONI

Thiago de Almeida Pereira¹, Lee Borthwick², Mariana Verdelho Machado³, Guanhua Xie⁴, Paula Vidigal⁵, Izabela Voieta⁵, Vivian Resende⁵, Rafal Witek⁶, José Roberto Lambertucci⁵, Anna Mae Diehl⁴, Thomas A. Wynn¹
¹National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States, ²Newcastle University, Newcastle, United Kingdom, ³Hospital Universitário de Santa Maria, Lisbon, Portugal, ⁴Division of Gastroenterology, Duke University Medical Center, Durham, NC, United States,

⁵Faculdade de Medicina, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ⁶Thermo Fisher Scientific, Frederick, MD, United States

(ACMCIP Abstract)

4:45 p.m.

689

TRANSCRIPTOMIC-BASED FUNCTIONAL CHARACTERIZATION OF HOST SYSTEMIC ADVERSE EVENTS FOLLOWING LYMPHATIC FILARIASIS TREATMENT

Britt Andersen¹, Bruce Rosa¹, Abdoulaye Meité², Christopher King³, Makedonka Mitreva¹, Peter Fischer¹, Gary Weil¹
¹Washington University School of Medicine, St. Louis, MO, United States, ²Programme national de la lutte contre la schistosomiase, les geohelminthiases et la filariose lymphatique, Abidjan, Côte D'Ivoire, ³Case Western Reserve University, Cleveland, OH, United States

(ACMCIP Abstract)

5 p.m.

690

PROTECTIVE IMMUNITY WITH HUMANS IS CONSISTENT WITH A DEFINED IMMUNE RESPONSE AGAINST THE TWO LEAD *O. VOLVULUS* VACCINE CANDIDATES, OV-103 AND OV-RAL-2

Jovvian G. Parakkal¹, Sonia Jain¹, Nancy Tricoche¹, David Abraham², Sara Lustigman¹
¹New York Blood Center-The Lindsley F. Kimball Research Institute, New York, NY, United States, ²Thomas Jefferson University, Philadelphia, PA, United States

5:15 p.m.

691

A NOVEL MECHANISM FOR IMMUNE EVASION BY A HUMAN FILARIAL PARASITE

Michael Andrew Kron
Medical College of Wisconsin, Milwaukee, WI, United States

(ACMCIP Abstract)

5:30 p.m.

692

CORD BLOOD ANTI-PARASITE IL-10 AS RISK MARKER FOR COMPROMISED VACCINE IMMUNOGENICITY IN EARLY CHILDHOOD

Indu Malhotra¹, A. Desiree LaBeaud², Nathan Morris¹, Maxim McKibben¹, Peter L. Mungai¹, Eric Muchiri³, Christopher L. King¹, Charles H. King¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Stanford University, Stanford, CA, United States, ³Division of Vector Borne and Neglected Tropical Diseases, Nairobi, Kenya

(ACMCIP Abstract)

Scientific Session 57

Global Health: Initiatives, Strategies, Approaches and Tools

Convention Center - Room 343/344 (Level 300)
Monday, November 6, 4 p.m. - 5:45 p.m.

CHAIR

Quique Bassat
ISGlobal, Barcelona, Spain

Erin Eckert
U.S. Agency for International Development, Arlington, VA, United States

4 p.m.

693

THE IMPORTANCE OF US FOREIGN AID FOR GLOBAL MALARIA CONTROL AND ELIMINATION

Peter Winskill¹, Hannah C. Slater¹, Jamie T. Griffin², Azra C. Ghani¹, Patrick G. Walker¹

¹Imperial College London, London, United Kingdom, ²Queen Mary University of London, London, United Kingdom

4:15 p.m.

694

ESTIMATING THE EFFECT OF HEALTH SYSTEMS ON CHILDHOOD MORTALITY IN SUB-SAHARAN AFRICA FROM 1996-2013

Rebecca Anthopolos¹, Ryan Simmons², Wendy Prudhomme O'Meara²

¹Rice University, Houston, TX, United States, ²Duke University, Durham, NC, United States

4:30 p.m.

695

INFLUENZA VACCINE KNOWLEDGE AND ACCEPTABILITY

Arlene Calvo¹, Rosalba Gonzalez², Juan Miguel Pascale², Morgan Hess-Holtz¹, SC Kaydos-Daniels³, Eduardo Azziz-Baumgartner⁴, Wilfrido Clara⁴, Julio Armero⁵, Nestor Sosa²

¹University of South Florida, Panama, Panama, ²Gorgas Memorial Institute, Panama, Panama, ³Centers for Disease Control and Prevention, Guatemala, GA, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Instituto Nacional de Salud, El Salvador, El Salvador

4:45 p.m.

696

ARE ORAL CHOLERA VACCINES COST-EFFECTIVE AND AFFORDABLE IN DHAKA, BANGLADESH? COST-EFFECTIVENESS OF ORAL CHOLERA VACCINE INTRODUCTION IN DHAKA, BANGLADESH

Ann Levin¹, Denise DeRoeck², Dennis Chao³, Jahangir Khan⁴, Abdur R. Sarker⁵, Mohammed Ali⁶, Firdausi Qadri⁵

¹Levin and Morgan LLC, Bethesda, MD, United States, ²Independent, Waltham, MA, United States, ³Institute for Disease Modeling, Bellevue, WA, United States, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁶Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

5 p.m.

697

VALIDITY OF A MINIMALLY INVASIVE AUTOPSY TOOL FOR CAUSE OF DEATH DETERMINATION IN PEDIATRIC DEATHS FROM SUB-SAHARAN AFRICA

Quique Bassat¹, Paola Castillo², Juan Carlos Hurtado², Miguel J. Martínez³, Mamudo R. Ismail⁴, Carla Carrilho⁴, Khátia Munguambe⁵, Clara Menéndez⁶, Jaume Ordi³

¹Barcelona Institute for Global Health; Centro de Investigação em Saúde de Manhiça; ICREA, Barcelona, Spain, ²Barcelona Institute for Global Health, Barcelona, Spain, ³Barcelona Institute for Global Health; Hospital Clinic de Barcelona, Barcelona, Spain, ⁴Hospital Central de Maputo; Faculdade de Medicina da Universidade Eduardo Mondlane, Maputo, Mozambique, ⁵Centro de Investigação em Saúde de Manhiça; Faculdade de Medicina da Universidade Eduardo Mondlane, Maputo, Mozambique, ⁶Barcelona Institute for Global Health; Centro de Investigação em Saúde de Manhiça; CIBERESP, Barcelona, Spain

5:15 p.m.

698

EMPIRICAL ESTIMATES OF DISABILITY BURDEN OF A SYMPTOMATIC DENGUE EPISODE

Donald S. Shepard¹, Yara A. Halasa¹, Wu Zeng¹, Laure Durand², Laurent Coudeville²

¹Brandeis University, Waltham, MA, United States, ²Sanofi Pasteur, Lyon, France

5:30 p.m.

699

SATELLITE AND *IN SITU* CLIMATE DATA MEASUREMENTS AT CHIKUNGUNYA AND DENGUE STUDY SITES IN KENYA

Assaf Anyamba¹, Richard Damoah², Bryson A. Ndenga³, Francis M. Mutuku⁴, Angelle Desiree LaBeaud⁵

¹Universities Space Research Association/GESTAR and NASA Goddard Space Flight Center, Greenbelt, MD, United States, ²Morgan State University/GESTAR and NASA Goddard Space Flight Center, Greenbelt, MD, United States, ³Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Nairobi, Kenya, ⁴Department of Environment and Health Sciences, Technical University of Mombasa, Mombasa, Kenya, ⁵Department of Pediatrics, Division of Infectious Diseases, Stanford University School of Medicine, Stanford, CA, United States

Ben Kean Fellowship Reception - By Invitation Only

Hilton - Latrobe (East Building, First Floor)

Monday, November 6, 5:45 p.m. - 7:15 p.m.

Special Session 58

Special Session: Ponder to Probe: A Cosmopolitan Debate and Peer Networking Session

Hilton - Key Ballroom 1 (West Building, Second Floor)

Monday, November 6, 5:45 p.m. - 6:45 p.m.

The ASTMH Committee on Global Health (ACGH) invites you to come "speak your mind" on contemporary global health issues! Peer networking is an essential skill to establish your global health and tropical medicine career track, and is needed at every stage of your career. 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 peer-to-peer networking event will center around an informal debate on current global health topics of interest to the tropical medicine community, including current infectious disease threats, career challenges and other hot topics pertaining to those pursuing a global health and tropical medicine career. The session will allow participants to present their views on 2-3 pre-determined topics elicited from ACGH members based on current events, field research, scientific discovery, career challenges and general inquiry. Participants will ponder over these issues, probe alternative views, and share ideas in a relaxed setting, while getting to know their peers. Topics discussed can become conversation starters for further networking after the session and throughout the remainder of the Annual Meeting. This session is recommended for students, early career professionals and experts so topics can be discussed from a range of various perspectives.

Please note that this meeting is limited to those who pre-registered for the event.

Monday
November 6

CHAIR

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

Ryan W. Carroll
Massachusetts General Hospital, Boston, MA, United States

Simon Pollett
Walter Reed Army Institute of Research, Silver Spring, MD, United States

Plenary Session 59

Plenary Session II: Fred L. Soper Lecture

Convention Center - Ballroom III (Level 400)

Monday, November 6, 6:15 p.m. - 7 p.m.



The Fred L. Soper Lecture is an honor bestowed upon distinguished workers in environmental control or preventive medicine. Born in 1893, Dr. Soper received his MD from the University of Chicago and a doctorate in public health from Johns Hopkins University in 1925. He began his career working with the

Rockefeller Foundation on hookworm control in Brazil. Soper headed an international group that did revolutionary work in research and control of yellow fever in South America, and eventually became director of the Pan American Health Organization. Dr. Soper died in 1977. The first Lecture was delivered by Thomas Weller in 1978, former president of ASTMH and winner of the 1954 Nobel Prize in Medicine or Physiology, in celebration of the 40th anniversary of the Gorgas Memorial Laboratory. The lecture is now a biannual event for ASTMH and focuses on a topic related to environmental control and preventive medicine.

CHAIR

Robert B. Tesh
University of Texas Medical Branch, Galveston, TX, United States

FRED L. SOPER LECTURE: THE USE OF *WOLBACHIA* TO CONTROL *Aedes aegypti* TRANSMITTED VIRUSES



Scott O'Neill, PhD, FAA, FAAAS
*Director, Institute of Vector-Borne Disease
Monash University
Melbourne, Australia*

Professor Scott O'Neill, PhD, FAA, FAAAS is the Director of the Institute of Vector-Borne Disease at Monash University, Australia. He has spent his academic career at the University of Illinois, Yale University, the University of Queensland and Monash University where until recently he was the Dean of Science. Dr. O'Neill leads The Eliminate Dengue Program, an international not-for-profit consortium that is working on the development of *Wolbachia* as a novel method to sustainably and cost effectively block transmission of arboviruses like dengue, Zika and chikungunya. The Eliminate Dengue program is undertaking field trials and pilot deployments in multiple countries. A central feature of this program is the emphasis on the use of *Wolbachia* to reduce pathogen transmission rather than suppress mosquito populations. More information can be found at www.eliminatedengue.com.

[eliminatedengue.com](http://www.eliminatedengue.com). Dr. O'Neill is an elected Fellow of the Australian Academy of Science, the American Association for the Advancement of Science, and the American Academy of Microbiology.

Tuesday, November 7

Registration

Convention Center - Pratt Street West Lobby (Level 300)

Tuesday, November 7, 7 a.m. - 5 p.m.

Speaker Ready Room

Convention Center - Room 336 (Level 300)

Tuesday, November 7, 7 a.m. - 5 p.m.

TropStop- Student/Trainee Lounge

Convention Center - Pratt Street West Lobby Foyer (Level 300)

Tuesday, November 7, 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 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.

Meeting Sign-Up Room

*Hilton - Stone Room and Chase Room
(West Building, Third Floor)*

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

AJTMH Editorial Board Meeting

Hilton - Ruth (East Building, First Floor)

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

Clinical Group (ACCTMTH) Past Presidents Meeting

Hilton - Peale A (East Building, First Floor)

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

Shope Fellowship Committee Meeting

Hilton - Johnson A (East Building, First Floor)

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

Press Room

Convention Center - Room 330 (Level 300)

Tuesday, November 7, 8 a.m. - 5 p.m.

Scientific Session 60

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria - Molecular Biology and Infection

Convention Center - Ballroom I (Level 400)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Akimasa Maeta

Juntendo University, Tokyo, Japan

Miho Usui

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

8 a.m.

2009

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2017. SEE THE MEETING APP AND ONLINE PROGRAM PLANNER FOR SPEAKER INFORMATION.

8:15 a.m.

2010

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2017. SEE THE MEETING APP AND ONLINE PROGRAM PLANNER FOR SPEAKER INFORMATION.

8:30 a.m.

700

TIME COURSE OF *PLASMODIUM FALCIPARUM* GAMETOCYTE DEVELOPMENT 1 (PFGDV1) EXPRESSION AND ACTIVITY

Miho Usui¹, Christopher Noetzel², Asaf Poran², Deepti K. Reddy¹, Lacy M. Simons³, Beata Czesny³, Olivier Elemento², Björn F. Kafsack², Kim C. Williamson¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Weill Cornell Medicine, New York, NY, United States, ³Loyola University Chicago, Chicago, IL, United States

(ACMCIP Abstract)

8:45 a.m.

701

LONG-TERM *IN VITRO* CULTURE OF *PLASMODIUM VIVAX* ISOLATES FROM MADAGASCAR MAINTAINED IN *SAIMIRI BOLIVIENSIS* BLOOD

Rajeev K. Mehlotra¹, D'Arbra Blankenship¹, Rosalind E. Howes², Tovonahary A. Rakotomanga³, Thierry Franchard³, Brune Ramiranirina³, Stephanie Ramboarina³, Marlin Linger³, Melinda Zikursh¹, Arsène Ratsimbaoa³, Peter A. Zimmerman¹, Brian T. Grimberg¹

¹Case Western Reserve University, Cleveland, OH, United States, ²University of Oxford, Oxford, United Kingdom, ³National Malaria Control Programme, Antananarivo, Madagascar

(ACMCIP Abstract)

9 a.m.

702

AN *EX VIVO* GAMETOCYTE CULTURE METHOD TO DETERMINE *PLASMODIUM FALCIPARUM* GAMETOCYTE COMMITMENT IN THE PATIENT'S PERIPHERAL BLOOD

Surendra K. Prajapati¹, Ruth Ayanful-Torgby², Fetsus K. Acquah², Elizabeth Cudjoe², Courage Kakaney², Jones A. Amponsah², Evans Obboh³, Andrea Arku², Benjamin K. Abuaku², Linda E. Amoah², Kim C. Williamson¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Noguchi Memorial Institute for Medical Research (NMIMR), University of Ghana, Accra, Ghana, ³University of Cape Coast, Cape Coast, Ghana

States, ²Noguchi Memorial Institute for Medical Research (NMIMR), University of Ghana, Accra, Ghana, ³University of Cape Coast, Cape Coast, Ghana

(ACMCIP Abstract)

9:15 a.m.

703

NOT1-G IS A NOVEL MEMBER OF THE CAF1/CCR4/NOT COMPLEX THAT IS ESSENTIAL FOR HOST TO VECTOR MALARIAL TRANSMISSION

Kevin J. Hart, Michael P. Walker, Scott E. Lindner

The Pennsylvania State University, University Park, PA, United States

9:30 a.m.

704

PB102, A NOVEL GENE ESSENTIAL FOR FEMALE FERTILITY OR OOKINETE MATURATION OF MURINE MALARIA PARASITE, *PLASMODIUM BERGHEI*

Akimasa Maeta, Makoto Hirai, Toshiyuki Mori, Toshihiro Mita

Juntendo University, Tokyo, Japan

Symposium 61

Triple ACTs as the New Paradigm for Treatment of Uncomplicated falciparum Malaria

Convention Center - Ballroom II (Level 400)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

The spread of artemisinin (ART) resistance, and subsequent ACT partner drug resistance, threatens malaria control in the Greater Mekong Subregion (GMS) and beyond. The efficacies of dihydroartemisinin-piperazine (DHA-PPQ) and artesunate-mefloquine (AS-MQ) have declined dramatically in the GMS. The spread of multidrug-resistant *P. falciparum* to Africa, where most of the world's malaria transmission, morbidity, and mortality occur, would be disastrous. Since new drugs are five years away, there is an urgent need to evaluate alternative treatments using existing drugs. A promising novel approach is the use of Triple ACTs (TACTs), which combine a short-acting ART with two longer-acting partner drugs. TACTs can exploit fortuitous inverse relationships between susceptibility to paired partner drugs, such as amodiaquine (AQ) and lumefantrine (LF), or PPQ and MQ. A large multinational study, the "Tracking Resistance to Artemisinin Collaboration II" (TRAC II) was initiated to map the current spread of resistance and assess the efficacy and safety of TACTs in 17 hospitals in six countries in Asia and one in Africa. This symposium will present the near-final results of this large-scale initiative, and the results of a modelling study that evaluates TACTs as a new treatment paradigm to delay the emergence and spread of drug resistance. The session will describe the prevalence and patterns of spread of ART and partner drug resistance in the GMS, through genetic epidemiology analyses of whole-genome sequencing data from parasite isolates. The symposium will present the near-final results of the large multinational, multicenter randomized clinical TRAC II trial, evaluating two TACTs (DHA-PPQ-MQ, and artemether-LF-AQ, compared to standard ACTs, and an update on the current geographical extent of ART and partner drug resistance. Speakers will model the effects of wide TACT implementation on the emergence and spread of drug resistance in Asia and Africa, to address whether TACTs can slow down the spread of multidrug-

resistant malaria in areas where ART and partner drug resistance is well-established (Southeast Asia) and slow down or prevent the emergence of drug resistance in areas where it has not yet emerged (South Asia and Africa). Data will be presented on the pharmacokinetics, pharmacodynamics, and drug interactions of two TACTs, and discuss modelling approaches to dose optimizing antimalarial drugs. This session will provide valuable insights into the benefits and risks of TACTs for treating multidrug-resistant falciparum malaria, the current genetic epidemiology of ART and partner drug resistance, and the potential role of TACTs as a new paradigm for the global treatment of falciparum malaria.

CHAIR

Rick Fairhurst
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

Arjen Dondorp
Mahidol Oxford Research Unit, Bangkok, Thailand

8 a.m.

GENETIC EPIDEMIOLOGY OF MULTIDRUG-RESISTANT PLASMODIUM FALCIPARUM IN THE GREATER MEKONG SUBREGION

Roberto Amato
Wellcome Trust Sanger Institute, Cambridge, United Kingdom

8:25 a.m.

RESULTS OF A MULTI-NATIONAL OPEN-LABEL RANDOMIZED TRIAL TO ASSESS THE EFFICACY, SAFETY AND TOLERABILITY OF TRIPLE ARTEMISININ COMBINATION THERAPIES (TACTS)

Rob van der Pluijm
Mahidol Oxford Research Unit, Bangkok, Thailand

8:50 a.m.

MODELLING THE TACTS AS A NEW PARADIGM FOR THE TREATMENT OF FALCIPARUM MALARIA IN ASIA AND AFRICA

Lisa White
Mahidol Oxford Research Unit, Bangkok, Thailand

9:15 a.m.

PHARMACOKINETIC AND PHARMACODYNAMIC ASPECTS OF TACTS

Joel Tarning
Mahidol Oxford Research Unit, Bangkok, Thailand

Symposium 62

Malaria Rapid Diagnostic Testing: Understanding and Managing the Threat of PfHRP2/3-Negative Plasmodium falciparum

Convention Center - Ballroom III (Level 400)
Tuesday, November 7, 8 a.m. - 9:45 a.m.

This symposium tackles an emerging threat to malaria diagnostic testing in some parts of the world, *P. falciparum* parasites with deletions of the pfhrp2/3 genes that render them undetectable by commonly used rapid diagnostic tests (RDTs). As a result of increasing reports of parasites lacking the pfhrp2/3 genes in parts of the Americas, Africa and Asia, the World Health Organization has prioritized the development of policies to confirm detection of these parasites and deploy alternative diagnostic tests in

affected regions. This symposium will address the current scope of the problem, disseminate methodological advances important to surveillance efforts and explore the pipeline of discovery and commercialization of biomarkers for use in RDTs. Most importantly, the session will foster collaboration among diverse stakeholders, including scientists, malaria control programs, policymakers and malaria diagnostic test developers.

CHAIR

Venkatachalam Udhayakumar
Centers for Disease Control and Prevention, Atlanta, GA, United States
Michelle Gatton
University of Queensland, Queensland, Australia

8 a.m.

DISCOVERY OF THE HRP2 ANTIGEN: THE JOURNEY FROM BENCH TO BEDSIDE

Thomas E. Wellem
National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

8:20 a.m.

PFHRP2/3 GENE DELETIONS: HOW BIG IS THE PROBLEM?

Jane Cunningham
World Health Organization, Geneva, Switzerland

8:40 a.m.

NEW TECHNIQUES FOR IDENTIFYING PFHRP2/3 DELETIONS AND UNDERSTANDING THEIR EVOLUTION

Jonathan B. Parr
University of North Carolina, Chapel Hill, NC, United States

9 a.m.

NOVEL P. FALCIPARUM BIOMARKERS: DISCOVERY AND FIELD TESTING RESULTS

Rhoel D. Dinglasan
University of Florida, Emerging Pathogens Institute, Gainesville, FL, United States

Symposium 63

Clinical Group Symposium I (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH): "There Ought to Be a Vaccine for That...." The Process, Hurdles and Opportunities in Developing and Utilizing Vaccines for Tropical Infections

Convention Center - Ballroom IV (Level 400)
Tuesday, November 7, 8 a.m. - 9:45 a.m.

Supported with funding from the International Association for Medical Assistance to Travellers (IAMAT)

This symposium features the Vincenzo Marcolongo Memorial Lecture. Immunizations are among the most powerful tools clinicians and public health practitioners have in preventing infection. However, for many of the most common infections of the developing world, and for tropical infections especially, no licensed vaccine exists. There is a critical need to develop more effective vaccines for malaria, dengue and cholera, as well as ones for the common causes of childhood diarrhea. Technical design challenges have frequently hindered vaccine development, but there are myriad hurdles that must be overcome to effectively

develop and introduce a vaccine. For many clinicians, the overall process of selecting a target disease, developing and licensing a vaccine for use is opaque. This symposium is designed to illuminate the process by which need for a vaccine is identified and framed, the vaccine is moved through product development, and then it is adopted for use.

CHAIR

John W. Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

David M. Brett-Major
Henry M. Jackson Foundation; U.S. Military HIV Research Program, Silver Spring, MD, United States



The Marcolongo Lecture honors Vincenzo Marcolongo (1922–1988), founder of IAMAT - International Association for Medical Assistance to Travellers. A graduate of the medical school at the University of Rome, Dr. Marcolongo did his postgraduate training at McGill University in Montreal and returned to

Italy to obtain his doctorate in tropical medicine. Dr. Marcolongo made the medical needs of travelers his life's work. 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.

8 a.m. CLINICIANS' ROLES IN VACCINE DEVELOPMENT

David M. Brett-Major
Henry M. Jackson Foundation; U.S. Military HIV Research Program, Silver Spring, MD, United States

8:15 a.m. THE ROLE OF NONPROFIT PRODUCT DEVELOPMENT PARTNERSHIPS IN VACCINE DEVELOPMENT

Thomas F. Wierzba
PATH, Washington, DC, United States

8:30 a.m. THE PERSPECTIVE OF INDUSTRY IN VACCINE DEVELOPMENT FOR TROPICAL INFECTIONS

Kent Kester
Sanofi Pasteur, Swiftwater, PA, United States

8:45 a.m. DETERMINING VACCINE USE

Jon S. Abramson
Wake Forest University School of Medicine, Winston-Salem, NC, United States

9 a.m. VINCENZO MARCOLONGO MEMORIAL LECTURE: *VIBRIO CHOLERA*: LESSONS FROM HAITI AND ITS PENDING RESEARCH AGENDA



Claudio F. Lanata, MD, MPH
*Senior Researcher
Nutritional Research Institute
Lima, Peru*

Dr. Lanata is Senior Researcher at the Nutritional Research Institute in Lima, Peru, which he joined in 1983 after returning from his post-graduate training in the United States. He has led extensive research in child health and nutrition areas, mainly on diarrheal and respiratory diseases, micronutrients and vaccine development. His work has resulted in two books, 27 chapters and more than 150 journal publications, mainly in major international journals, as well as in several collaborations. He has been an active collaborator with WHO and PAHO, has served as a Trustee of the International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B) and founded the Child Health and Nutrition Research Initiative (CHNRI) in Switzerland. He also has been a member of the Child Health Epidemiology Reference Group (CHERG), as well as of the Foodborne Epidemiology Reference Group (FERG) of WHO, and continues to be part of several expert committees on diarrheal diseases and vaccine development. Since 2011, Dr. Lanata has been a member of the Pneumonia Etiology Research for Child Health (PERCH) and the Research for Product Development Advisory Committee Strategic Advisory Group of Experts (SAGE), WHO. He is an Adjunct Professor, Department of Pediatrics at Vanderbilt University, and Honorary Professor at the London School of Hygiene & Tropical Medicine. Since 2009, he has been an Associate Member of the Peruvian Academy of Medicine.

9:30 a.m. NETWORKING AND SOCIAL TIME

Scientific Session 64

Malaria: Epidemiology - Following Trends, Making Predictions

*Convention Center - Room 318/319/320 (Level 300)
Tuesday, November 7, 8 a.m. - 9:45 a.m.*

CHAIR

Meghna Desai
Centers for Disease Control and Prevention, Atlanta, GA, United States

Anna M. van Eijk
New York University, New York, NY, United States

8 a.m.

705

A LONGITUDINAL COHORT STUDY OF MALARIA EXPOSURE AND CHANGING SEROSTATUS IN A MALARIA ENDEMIC AREA OF RURAL TANZANIA

Ryan Simmons¹, Leonard Mboera², Marie Lynn Miranda³, Alison Rand⁴, Gillian Stresman⁴, Elizabeth Turner¹, Randall Kramer¹, Chris Drakeley⁴, Wendy Prudhomme O'Meara¹

¹Duke University, Durham, NC, United States, ²National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ³Rice University, Houston, TX, United States, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom

8:15 a.m.

706

SEASONALITY AND TRENDS OF MALARIA EPIDEMIC IN UNDER-FIVE-YEAR CHILDREN IN LAKESHORE COMPARED TO HIGHLAND AREAS IN ZOMBA DISTRICT, MALAWI

Precious L. Hajison¹, Bonex W. Mwakikunga², Don P. Mathanga³, Shingairai A. Feresu⁴

¹Invest in Knowledge, Zomba, Malawi, ²Council for Scientific and Industrial Research, Pretoria, South Africa, ³College of Medicine, University of Malawi, Blantyre, Malawi, ⁴University of Pretoria, School of Health Systems and Public Health, Pretoria, South Africa

8:30 a.m.

707

ONE HUNDRED YEARS OF MALARIA IN PREGNANCY SURVEYS: A SYSTEMATIC REVIEW OF SURVEYS CONDUCTED BETWEEN 1915 AND 2015

Anna M. van Eijk, Jenny Hill, Feiko O. Ter Kuile

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:45 a.m.

708

PREDICTORS OF DETECTING ANTIMALARIALS DRUGS IN THE BLOOD IN COMMUNITY SURVEYS IN TANZANIA

Joanna Gallay¹, Emilie Pothin¹, Dominic Mosha², Martin Zuakulu², Erick Lutahakana², Laurent Decosterd³, Blaise Genton¹

¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania, ³Division and Laboratory of Clinical Pharmacology, Department of Laboratories, University Hospital, Lausanne, Switzerland

9 a.m.

709

EVALUATING THE IMPACT OF THE EXPANSION OF MALARIA CONTROL INTERVENTIONS IN KENYA, 2003-2015

Agneta Mbithi¹, Rebecca Kiptui², Hellen Gatakaa¹, Abdusalan Noor³, Christie Hershey⁴, Ann Buff⁵, Waqo Erjesa², Yazoume Yé⁶

¹MEASURE Evaluation PIMA, Nairobi, Kenya, ²National Malaria Control Program, Nairobi, Kenya, ³KEMRI-Wellcome Trust Programme, Nairobi, Kenya, ⁴United States Agency for International Development, U.S. President's Malaria Initiative, Washington, DC, United States, ⁵U.S. President's Malaria Initiative-Kenya, Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁶MEASURE Evaluation, Chapel Hill, NC and ICF, Rockville, MD, United States

9:15 a.m.

710

M-HEALTH INNOVATIONS < THEIR CHALLENGES TO MANAGE MALARIA SENTINEL SURVEILLANCE NETWORK IN MADAGASCAR

Laurence Randrianasolo¹, Stephan Randrianasolo¹, Florian Girond¹, Léa Randriamampionona², Jocelyn Razafindrakoto³, Toky Ramarokoto¹, Fanjasoa Rakotomanana¹, Rindra Rendremanana¹, Laurent Kapesa³, Arsène Ratsimbaoa², Laurence Baril¹, Patrice Piola¹

¹Institut Pasteur de Madagascar, Antananarivo, Madagascar, ²Ministry of

Health Madagascar, Antananarivo, Madagascar, ³U.S. Agency for International Development Madagascar, Health Population and Nutrition Office (HPN), Antananarivo, Madagascar

9:30 a.m.

711

MAPPING THE TRAVEL PATTERNS OF PEOPLE WITH MALARIA IN BANGLADESH

Ipsita Sinha¹, Abdullah Abu Sayeed², Didar Uddin¹, Sazid Ibna Zaman¹, Amy Wesolowski³, M. Abul Faiz⁴, Aniruddha Ghose², M. Ridwanur Rahman⁵, Akramul Islam⁶, M. Jahirul Karim⁷, M. Kamar Rezwana⁸, Abul Khair M. Shamsuzzaman⁹, Sanya Tahmina Jhora⁹, M. M. Aktaruzzaman⁹, Hsiao-Han Chang³, Christopher Jacob¹⁰, Olivo Miotto¹, Dominic Kwiatkowski¹¹, Arjen M. Dondorp¹, Nicholas P. Day¹, M. Amir Hossain², Caroline Buckee³, Richard Maude¹

¹Mahidol Oxford Tropical Research Unit, Bangkok, Thailand, ²Chittagong Medical College Hospital, Chittagong, Bangladesh, ³Harvard T.H. Chan School of Public Health, Harvard University, Boston, MA, United States, ⁴Dev Care Foundation, Dhaka, Bangladesh, ⁵Shaheed Suhrawardy Medical College, Dhaka, Bangladesh, ⁶BRAC Centre, Dhaka, Bangladesh, ⁷National Malaria Control Programme, Dhaka, Bangladesh, ⁸Vector-Borne Disease Control, World Health Organization, Dhaka, Bangladesh, ⁹Communicable Disease Control, Directorate General of Health Services, Dhaka, Bangladesh, ¹⁰Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ¹¹Wellcome Trust Centre for Human Genetics, University of Oxford, Oxford, United Kingdom

Scientific Session 65

Mosquitoes: Insecticide Resistance and Control

Convention Center - Room 321/322/323 (Level 300)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

CHAIR

Nsa Dada

Centers for Diseases Control and Prevention, Atlanta, GA, United States

Eric Lucas

Liverpool School of Tropical Medicine, Liverpool, Switzerland

8 a.m.

712

BAKER'S YEAST-BASED INTERFERING RNA LARVICIDES TARGETING Aedes aegypti

Limb K. Hapairai¹, Keshava Mysore¹, Ying-Ying Chen², David W. Severson², Na Wei¹, Molly Duman Scheel¹

¹Indiana University, South Bend, IN, United States, ²The University of Notre Dame, South Bend, IN, United States

8:15 a.m.

713

FUNCTIONAL DIVERSITY OF ANOPHELES ALBIMANUS MICROBIOTA PROVIDES NEW INSIGHTS INTO INSECTICIDE RESISTANCE MECHANISMS

Nsa Dada¹, Mili Sheth¹, Kelly Liebman², Jesus Pinto³, Audrey Lenhart¹

¹United States Centers for Diseases Control and Prevention, Atlanta, GA, United States, ²California Department of Public Health, Richmond, CA, United States, ³Instituto Nacional de Salud, Lima, Peru

8:30 a.m.

714

EFFECT OF KNOCKDOWN RESISTANCE ON PLASMODIUM FALCIPARUM SPOOROZOITE RATES IN MALARIA VECTORS SAMPLED FROM WESTERN KENYA

Isaiah Debrah¹, Bernard Guyah¹, Maurice Ombok², Eric Ochomo²

¹Maseno University, Kisumu, Kenya, ²Center for Global Health Research, Kenya Medical Research Institute/Centers for Disease Control and Prevention, Kisumu, Kenya

8:45 a.m.

715

THE ANOPHELES GAMBIAE 1000 GENOMES PROJECT PHASE 2: INSECTICIDE RESISTANCE, GENE DRIVE AND GENOME VARIATION IN 1,142 MALARIA MOSQUITOES

Chris S. Clarkson¹, Alistair Miles², Nicholas J. Harding², Giordano Botta³, Mara K. Lawniczak¹, Martin J. Donnelly⁴, Dominic Kwiatkowski², The *Anopheles gambiae* 1000 Genomes Consortium²

¹Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ²Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom, ³Universita di Roma - Sapienza, Rome, Italy, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9 a.m.

716

SCIENCE AND NATURE: SUSCEPTIBILITY OF WILD CAUGHT ADULT ANOPHELES GAMBIAE S.S. TO INSECTICIDES MAY NOT DECREASE WITH AGE

Kevin Ochieng' Opondo¹, Martin Donnelly², Musa Jawara¹, Amfaal Fofana¹, Julia Mwesigwa¹, Florence Crombe², Umberto D'Alessandro¹, David Weetman²
¹Medical Research Council Unit The Gambia, Banjul, Gambia, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9:15 a.m.

717

THE EVOLUTION OF METABOLIC INSECTICIDE RESISTANCE IN AFRICAN MALARIA VECTORS VIA COPY NUMBER VARIATION

Eric Lucas¹, Alistair Miles², David Weetman¹, Dominic Kwiatkowski³, Martin Donnelly¹, The *Anopheles gambiae* 1000 Genomes Consortium²
¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom, ³Wellcome Trust Sanger Institute, Cambridge, United Kingdom

9:30 a.m.

718

OXIDATIVE DEFENSE CAPACITY IS CRITICAL FOR FECUNDITY AND XENOBIOTIC METABOLISM IN ANOPHELES GAMBIAE

Cody J. Champion, Jiannong Xu
New Mexico State University, Las Cruces, NM, United States

Symposium 66

Mechanisms of Post-Discharge Mortality and Possible Interventional Targets in Low-Resource Settings

Convention Center - Room 324/325/326 (Level 300)
Tuesday, November 7, 8 a.m. - 9:45 a.m.

Children who have been successfully managed in low-resource-setting hospitals too often suffer recurrent illness or death in the post-discharge period. The risk of death among children discharged from the hospital is six-to-eight-fold higher than similarly aged children in the community and for many conditions, and cumulative post-discharge mortality can equal inpatient case fatality rates. Few interventions have demonstrated benefit in reducing post-discharge mortality. Discharge from the hospital therefore represents a critical time period where highly vulnerable children can access interventions that may reduce mortality. This symposium will present novel evidence from ongoing studies that may inform interventions to reduce post-discharge mortality. The symposium will discuss the possible immunological and inflammatory mechanisms that may underpin

post-discharge mortality drawing evidence from ongoing work in the FLACSAM trial (registration: NCT02746276), the Childhood Acute Illness and Nutrition (CHAIN) Network cohort and the previously completed randomized control trial of cotrimoxazole prophylaxis for severely malnourished children being discharged from the hospital (NCT00934492). The session will introduce the Toto Bora trial, which tests the efficacy of an empiric short-course of azithromycin in reducing morbidity and mortality in children under five years of age discharged from hospitals in Western Kenya. Preliminary data will be shared on the clinical and pathogen features of children discharged from Kenyan hospitals (registration: NCT02414399). Data will be presented on the carriage of antimicrobial resistant organisms at hospital discharge and their potential role in post-discharge outcomes, using data gathered by the Kenya Medical Institute's Center for Microbiology Research. Finally, the session will conclude with a discussion about the nutritional and metabolic deficits associated with malnutrition, which is being explored through samples gathered in a recent study of reformulated F-75 (NCT02246296) and a separate study of three dietary regimes for severe malnutrition (ISRCTN13916953).

CHAIR

Judd L. Walson
University of Washington, Seattle, WA, United States
Kirkby D. Tickell
University of Washington, Seattle, WA, United States

8 a.m.

INFLAMMATION AND IMMUNOLOGICAL DEFICITS AS DRIVERS OF POST-DISCHARGE MORTALITY

James Berkley
University of Oxford, Oxford, Nuffield Department of Medicine, United Kingdom

8:20 a.m.

THE TOTO BORA TRIAL AND ENTERIC AND NASOPHARYNGEAL PATHOGEN DETECTION AT DISCHARGE

Patricia B. Pavlinac
University of Washington, Seattle, WA, United States

8:40 a.m.

CARRIAGE OF ANTIBIOTIC RESISTANT ORGANISMS AT DISCHARGE FROM HOSPITAL AND ITS POTENTIAL SIGNIFICANCE

Samuel Kariuki
Kenya Medical Research Institute (KEMRI), Nairobi, Kenya

9 a.m.

NUTRITIONAL AND METABOLIC DEFICITS AS A MECHANISM FOR POST-DISCHARGE MORTALITY

Robert Bandsma
The Hospital for Sick Children, Toronto, ON, Canada

Scientific Session 67

Ebola and Rotaviruses

Convention Center - Room 327/328/329 (Level 300)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

CHAIR

Benjamin Lee

University of Vermont, Burlington, VT, United States

Milagritos D. Tapia

University of Maryland School of Medicine, Center for Vaccine Development, Baltimore, MD, United States

8 a.m.

719

SAFETY/IMMUNOGENICITY OF A SINGLE INTRAMUSCULAR DOSE OF THE INVESTIGATIONAL RECOMBINANT CHIMPANZEE ADENOVIRUS TYPE 3-VECTORED EBOLA ZAIRE VACCINE (CHAD3-EBO-Z) IN CHILDREN IN AFRICA: A PHASE 2, RANDOMIZED, CONTROLLED STUDY

Milagritos D. Tapia¹, Zaire Ebola Research Alliance (ZEBRA) group

¹University of Maryland School of Medicine, Baltimore, MD, United States

8:15 a.m.

720

SAFETY AND IMMUNOGENICITY OF MONOVALENT AD26. ZBOV AND MULTIVALENT MVA-BN-FILO HETEROLOGOUS PRIME-BOOST VACCINE REGIMENS AGAINST EBOLA IN AFRICAN HEALTHY ADULT VOLUNTEERS

Zacchaeus Anywaie¹, George Praygod², Omu Anzala³, Samuel Kalluvya⁴,

Pontiano Kaleebu¹, Gaudensia Mutua³, Hilary Whitworth⁵, Kerstin Luhn⁶,

Cynthia Robinson⁶, Deborah Watson-Jones⁵, Macaya Dougouh⁶

¹MRC/UVRI Uganda Research Unit, Entebbe-Uganda, Uganda, ²National

Institute for Medical Research, Mwanza, United Republic of Tanzania, ³KAVI

- Institute of Clinical Research, College of Health Sciences, University of

Nairobi, Nairobi, Kenya, ⁴Bugando Medical Centre, Mwanza, United Republic

of Tanzania, ⁵London School of Hygiene & Tropical Medicine, London, United

Kingdom, ⁶Janssen Vaccines & Prevention, Leiden, Netherlands

8:30 a.m.

721

SEROLOGIC PROFILING OF THE HUMORAL IMMUNE RESPONSE TO EBOLA VIRUS MINIMALLY OR ASYMPTOMATICALLY INFECTED SUBJECTS

Patrick K. Mukadi¹, Nicole A. Hoff², Daniel Mukadi¹, Reena H. Doshi², Emile W.

Okitolonda³, Jean-Jacques T. Muyembe¹, Benoit I. Kebela⁴, Russel Williams¹,

Matthew S. Bramble⁵, Brad Nicholson⁶, Anne W. Rimoin²

¹National Institute for Biomedical Research, Kinshasa, Democratic Republic

of the Congo, ²University of California Los Angeles Fielding School of Public

Health, Los Angeles, CA, United States, ³Kinshasa School of Public Health,

Kinshasa, Democratic Republic of the Congo, ⁴Ministère de la Santé, Direction

de Lutte Contre la Maladie, Kinshasa, Democratic Republic of the Congo,

⁵University of California Los Angeles David Geffen School of Medicine, Human

Genetics, Los Angeles, CA, United States, ⁶Duke University, Durham, NC,

United States

8:45 a.m.

722

PREVALENCE AND PREDICTORS OF ROTAVIRUS SHEDDING AMONG A COHORT OF POST-VACCINATED INFANTS IN EL ALTO, BOLIVIA 2013 - 2015

Shanon M. Smith¹, Paulina A. Rebolledo², Jessica Prince-Guerra¹, Juan S.

Leon¹, Leonarda Acha Alarcon³, Lucia Inchauste³, Rita Revollo⁴, Volga Iniguez²

¹Hubert Department of Global Health, Rollins School of Public Health, Emory

University, Atlanta, GA, United States, ²Emory School of Medicine, Atlanta, GA,

United States, ³Instituto de Biotecnología y Microbiología, Universidad Mayor

de San Andrés, La Paz, Plurinational State of Bolivia, ⁴Servicio Departamental

de Salud, La Paz, Plurinational State of Bolivia

9 a.m.

723

LEWIS ANTIGEN AND SECRETOR STATUS MEDIATE SUSCEPTIBILITY TO P-GENOTYPE SPECIFIC ROTAVIRUS INFECTIONS BUT DO NOT AFFECT ROTAVIRUS VACCINE PERFORMANCE AMONG INFANTS IN BANGLADESH

Benjamin Lee¹, Sean A. Diehl¹, E. Ross Colgate¹, Dorothy M. Dickson¹, Muhammad I. Uddin², Salma Sharmin², Shahidul Islam², Taufiqur R. Bhuiyan², Mami Taniuchi³, William A. Petri³, Firdausi Qadri², Rashidul Haque², Beth D. Kirkpatrick¹

¹University of Vermont, Burlington, VT, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³University of Virginia, Charlottesville, VA, United States

9:15 a.m.

724

IMPACT OF ROTAVIRUS VACCINE PERFORMANCE ON INFANT UNDERNUTRITION IN EL ALTO, BOLIVIA

Jessica Prince-Guerra¹, Paulina A. Rebolledo², Rachel Burke³, Anna Fabiszewski

de Aceituno¹, Parminder Suchdev¹, Rita Revollo⁴, Volga Iniguez², Juan S. Leon¹

¹Hubert Department of Global Health, Rollins School of Public Health, Emory

University, Atlanta, GA, United States, ²Emory School of Medicine, Atlanta,

GA, United States, ³Department of Epidemiology, Rollins School of Public

Health, Emory University, Atlanta, GA, United States, ⁴Servicio Departamental

de Salud, La Paz, Plurinational State of Bolivia, ⁵Instituto de Biotecnología y

Microbiología, Universidad Mayor de San Andrés, La Paz, Plurinational State of

Bolivia

9:30 a.m.

725

TRENDS IN CIRCULATING ROTAVIRUS STRAINS IN INDIA FROM 2012-2016: A MULTI-CENTER SURVEILLANCE DATA AMONG UNDER FIVE CHILDREN

Nayana P. Nair¹, Sidhartha Giri¹, Sudhir Babji¹, Girish Kumar²,

Venkatasubramaniam S², Rashmi Arora³, Gagandeep Kang¹

¹Christian Medical College, Vellore, India, ²National Institute of Epidemiology,

Chennai, India, ³Indian Council of Medical Research, New Delhi, India

Scientific Session 68

Bacteriology: Trachoma

Convention Center - Room 331/332 (Level 300)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

CHAIR

Forest M. Altherr

The Carter Center, Los Alamos, NM, United States

Amy Pinsent

Monash University, Melbourne, Australia

8 a.m.

726

INTEGRATING A GEOGRAPHIC INFORMATION SYSTEM TO EXPLORE THE EFFECT OF WATER, SANITATION, AND HYGIENE ON TRACHOMA AT AGGREGATE SPATIAL SCALES

Forest M. Altherr¹, Eshetu Sata², Aisha E.P. Stewart¹, Tigist Astale², Mulat

Zerihun², Andrew Nute¹, Demelash Gessesse², Gedefaw Ayenew², Melsew

Chanyalew³, Berhanu Melak², Zerihun Tadesse², E. Kelly Callahan¹, Scott D.

Nash¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Addis Ababa,

Ethiopia, ³The Amhara Regional Health Bureau, Bahir Dar, Ethiopia

8:15 a.m.

727

TRACHOMA PREVALENCE AFTER THREE ROUNDS OF MASS DRUG ADMINISTRATION IN KANKAN, MANDIANA AND SIGUIRI, THREE HEALTH DISTRICTS IN GUINEA

André Géopogui¹, Sylvain Haba², Mamadou S. Baldé¹, Cece Nieba¹, Lamah Lamine², Christelly Badila Flore², Bamba Fountotin Ibrahim²
¹Ministry of Health, Conakry, Guinea, ²Helen Keller International, Conakry, Guinea

8:30 a.m.

728

LONGITUDINAL TRENDS IN TRACHOMA OVER EIGHT YEARS IN A HYPERENDEMIC SETTING UNDER THE SAFE STRATEGY: RESULTS FROM SERIAL IMPACT SURVEYS IN WEST GOJJAM ZONE, ETHIOPIA

Scott D. Nash¹, Eshetu Sata², Aisha E.P. Stewart¹, Tigist Astale², Mulat Zerihun², Demelash Gessesse², Gedefaw Ayenew², Melsew Chanyalew³, Berhanu Melak², Zerihun Tadesse², E. Kelly Callahan¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³Amhara Regional Health Bureau, Bahir Dar, Ethiopia

8:45 a.m.

729

INSIGHTS AND COMPLEXITIES MODELLING SEROLOGICAL DATA FOR TRACHOMA SURVEILLANCE

Amy Pinsent

Monash University, Melbourne, Australia

9 a.m.

730

TRACHOMATOUS TRICHIASIS SCREENING AND ACTIVE CASE FINDING, AN OPPORTUNITY FOR EYE HEALTH PROGRAMS: CASE STUDY OF THE MMDP PROJECT IN BURKINA FASO

Francois Drabo¹, Martin Kabore¹, Issouf Bamba², Jean-Paul Djiatsa², Fanny Yago-Wienne², Yaobi Zhang³, Awa Dieng³, Emily Gower⁴, Zeina Sifri⁵

¹Maladies Tropicales Negligees (MTN), Ministry of Health, Ouagadougou, Burkina Faso, ²Helen Keller International, Ouagadougou, Burkina Faso, ³Helen Keller International, Dakar, Senegal, ⁴University of North Carolina/Helen Keller International, Chapel Hill, NC, United States, ⁵Helen Keller International, Washington, DC, United States

9:15 a.m.

731

INFLUENCE OF INDIVIDUAL AND ENVIRONMENTAL FACTORS ON THE PREVALENCE OF TRACHOMA IN THE HEALTH DISTRICT OF MOKOLO, CAMEROON AFTER 3 YEARS OF MASS TREATMENT WITH ZITHROMAX AND TETRACYCLINE

Assumpta Lucienne Bella¹, Emilienne Epée², Armelle Ngomba³, Godefroy Koki⁴, Fabrice N. Djouma⁵, Georges Nko'o Ayissi², Julie Akame⁶, Patrick Mbia⁶, Henri MOUNGUI⁶, Michel Paradis⁶, Yaobi Zhang⁷

¹National Programme for the Prevention of Blindness, 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, ⁵University of Dschang, Dschang, Cameroon, ⁶Helen Keller International, Yaoundé, Cameroon, ⁷Helen Keller International, Dakar, Senegal

9:30 a.m.

732

THE TRACHOMA END-GAME IN VIETNAM: SURVEYING TRACHOMA HOTSPOTS IN HÀ GIANG PROVINCE

Tran Minh Dat¹, Nguyen Xuan Hiep¹, Jeremiah Ngondi², Ngoc Nguyen Viet My³, Long Nguyen Tien³, Joshua Sidwell⁴, Molly Brady⁴, Rob Henry⁵, Aryc Mosher⁵, Lisa Rotondo⁴, Anthony Solomon⁶

¹Vietnam National Institute of Ophthalmology, Hanoi, Vietnam, ²RTI International, Dar es Salaam, United Republic of Tanzania, ³Fred Hollows Foundation, Da Nang, Vietnam, ⁴RTI International, Washington, DC, United States, ⁵U.S. Agency for International Development, Washington, DC, United States, ⁶World Health Organization, Geneva, Switzerland

Symposium 69

Verifying the Elimination of Neglected Tropical Diseases: Implications for Sampling

Convention Center - Room 337/338 (Level 300)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

For many of the neglected tropical diseases (NTDs) outlined in the 2012 London Declaration, the success of their intervention programs has resulted in a massive decline in disease prevalence and infection intensity. While the epidemiology and the interventions required to help eliminate these diseases differ, a common challenge for all NTD elimination programs is measuring programmatic success and deciding when intervention implementation can be interrupted. This requires accurate diagnostic tools, but also efficient survey strategies to apply these tools. This symposium discusses the challenges involved, highlights new quantitative methods to support cessation planning for a range of NTDs, and investigates how the different disease programs must tailor end-game activities to help prevent reemergence taking account of the specific dynamics of the disease of interest. The symposium promotes a dialogue between experts on different diseases and contributes to deeper understanding of the factors complicating the detection of elimination and possible solutions. The symposium covers preventative chemotherapy (PC) diseases (with examples from lymphatic filariasis, onchocerciasis and soil transmitted helminths), and intensified disease management diseases (with examples from human African trypanosomiasis (HAT)). Each of these have different disease dynamics and the presenters discuss how they will likely need different measures to investigate whether elimination has been achieved, or optimize a post-elimination surveillance strategy. The talks will focus on survey techniques and sampling strategies for assessing elimination status, informed by mathematical modelling. The speakers will highlight how baseline infection levels can alter the required prevalence threshold for stopping mass drug administration for numerous PC diseases, challenging current guidance which do not yet account for geographic heterogeneity. In addition, the speakers will address the importance of selecting the right end-point statistic to discriminate between elimination and bounce-back, and how the incorporation of a second decision rule to the TAS could help safeguard against micro-*foci* of infection that might otherwise lead to a recrudescence. For HAT, which already uses screening as a main part of its intervention program, it is unclear what testing strategy should be used to assess progress towards elimination. For both HAT and onchocerciasis, a tiered approach to verifying elimination is examined, where sampling is performed initially at high-risk areas, such as the most recent *foci* or close to vector breeding sites, before confirming that no pockets of infection persist elsewhere.

CHAIR

Kat S. Rock

Zeeman Institute: SBIDER (Systems Biology and Infectious Disease Epidemiology Research), The University of Warwick, Coventry, United Kingdom

Marleen Werkman

Imperial College London and The DeWorm3 Project (The Natural History Museum of London), London, United Kingdom

Tuesday
November 7

8 a.m.

QUANTIFYING THE END-GAME FOR SLEEPING SICKNESS: ASSESSING SUCCESS AND RISK THROUGH MATHEMATICAL MODELLING

Kat Rock

Zeeman Institute: SBIDER (Systems Biology and Infectious Disease Epidemiology Research), The University of Warwick, Coventry, United Kingdom

8:20 a.m.

TOWARDS IMPROVED GUIDELINES FOR STOPPING MDA AND VERIFYING ELIMINATION OF ONCHOCERCIASIS: CRITICAL THRESHOLDS AND SAMPLING STRATEGIES

Wilma A. Stolk

Erasmus MC, Rotterdam, Netherlands

8:40 a.m.

BETTER UTILIZATION OF THE TRANSMISSION ASSESSMENT SURVEY TO IDENTIFY POTENTIAL FOCI OF INFECTION FOR LF

Katherine Gass

Task Force for Global Health, Decatur, GA, United States

9 a.m.

DEWORM3: USING TRANSMISSION MODELS IN STUDY DESIGN: DETECTING ELIMINATION AND THE IMPACT OF PRE-EXISTING TREATMENT PROGRAMS

James E. Truscott

Imperial College London and The DeWorm3 Project (The Natural History Museum of London), London, United Kingdom

Symposium 70

Novel Datasets and Approaches to Study the Emergence of Lyme Disease and Other Tick-Borne Diseases in the United States

Convention Center - Room 339/340 (Level 300)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

Over the last half-century, previously undescribed tick-borne pathogens including the Lyme disease bacteria, *Borrelia burgdorferi*, have rapidly spread across the northeast and midwest United States. Lyme disease is now the most commonly reported vector-borne disease in North America, with over 300,000 estimated cases each year in the United States. Despite its epidemiological importance, many questions remain about this ongoing invasion. Does the observed spread of human cases reflect the ecological spread of the blacklegged ticks or Lyme disease bacteria or does it reflect changes in case reporting and recognition? How do ticks and tick-borne pathogens spread across space and why are tick-borne pathogens currently invading the U.S.? This symposium will explore the evolutionary, ecological and epidemiological history of the Lyme disease invasion in North America using the most current datasets on tick distribution, human disease surveillance and pathogen genomic data. The session will describe novel methodological approaches integrating molecular analyses, statistical and mechanistic modeling to identify climatic and other environmental and anthropogenic factors driving the spread of tick-borne diseases. The investigation methods illustrated in this symposium are of major importance for public health agencies to predict the spread and control the emergence of tick-borne diseases.

CHAIR

Maria Diuk-Wasser

Columbia University, New York, NY, United States

Donal Bisanzio

University of Oxford, Oxford, United Kingdom

8 a.m.

POPULATION EXPANSION OF THE LYME DISEASE TICK VECTOR IN THE UNITED STATES IN THE LAST 20 YEARS

Rebecca Eisen

Centers for Disease Control and Prevention, Fort Collins, CO, United States

8:20 a.m.

RECONSTRUCTING THE INVASION OF THE LYME DISEASE BACTERIUM IN NORTH AMERICA WITH PATHOGEN GENOMES AND HUMAN SURVEILLANCE DATA

Katharine S. Walter

Yale School of Public Health, New Haven, CT, United States

8:40 a.m.

PREDICTING THE INTRODUCTION AND TRANSMISSION OF HIGH-CONSEQUENCE FOREIGN TICK-BORNE DISEASES IN THE UNITED STATES

Sarah Hamer

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

9 a.m.

TEMPORAL-SPATIAL DYNAMIC MODELING AS TOOL TO STUDY INTRODUCTION, DIFFUSION AND PERSISTENCE OF TICK-BORNE PATHOGENS

Donal Bisanzio

Big Data Institute, Nuffield Department of Medicine, Oxford, United Kingdom

Symposium 71

The Sanitation Hygiene Infant Nutrition Efficacy (SHINE) Trial

Convention Center - Room 341/342 (Level 300)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

Globally, 159 million (26%) under-5-year-old children are stunted (Height-for-age Z (HAZ) score < -2). Stunting occurs between conception and 24 months of age, when the mean HAZ among children in Asia and Africa is -2.0. Stunting increases child mortality, reduces school performance and adult economic productivity and increases chronic disease risk. The best dietary interventions increase HAZ by 0.7; a growth effect equivalent to about one-third of the mean deficit of Asian and African children. Moreover, in Africa, stunting has remained stagnant at ~40% and, due to population growth, the number of stunted children is increasing. Similarly, anemia affects 46% of under-five-year-old children globally; iron supplementation and fortification reduce anemia by 37-62%, leaving a substantial proportion uncorrected. Thus, new interventions are urgently required. The SHINE trial was designed to test the hypothesis that environmental enteric dysfunction (EED) is an underlying cause of stunting and anemia, that EED is primarily caused by high fecal ingestion due to poor WASH conditions, and that the effects of optimizing IYCF will be additive to those of WASH on stunting and anemia. The design and methods of SHINE have been previously reported http://cid.oxfordjournals.org/content/61/suppl_7.toc. From November, 2012

through March 2015, 5280 pregnant women were enrolled into SHINE at a median age of 12.5 gestational weeks. Women and their live-born infants were followed to 18 months postpartum. Village Health Workers made home visits to all enrolled women and delivered interactive behavior-change interventions. In the IYCF arm, women received nutrition education and infants received lipid-based nutrient supplements between 6-18 months; in WASH arms, households received a latrine, two handwashing stations with monthly replenishment of soap, water chlorination and an infant play space. Research staff made eight home visits to measure uptake of the interventions and trial outcomes between baseline and 18 months. At 24 months, early child development was assessed. Data collection was completed June 30, 2017. This symposium will be the first public presentation of SHINE findings. The session will describe SHINE and summarize findings from the WASH Benefits trials conducted in Kenya and Bangladesh by the principal investigator of those trials. WASH Benefits tested similar hypotheses and implemented similar interventions, though in different contexts. Presenting the three trials in the same symposium will consolidate current thinking in the WASH field on the future of interventions for stunting and anemia.

CHAIR

Jean H. Humphrey
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Andrew J. Prendergast
Queen Mary University of London, London, United Kingdom

8 a.m.

BACKGROUND, RATIONALE AND STUDY DESIGN

Robert Ntozini
Zvitambo Institute for Maternal and Child Health Research, Harare, Zimbabwe

8:15 a.m.

IMPACT OF WASH AND IYCF ON STUNTING AND ANEMIA

Jean J. Humphrey
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

8:30 a.m.

IMPACT OF WASH AND IYCF ON EARLY CHILD DEVELOPMENT

Melissa Gladstone
Women's and Children's Health, University of Liverpool, Liverpool, United Kingdom

8:45 a.m.

THE WASH BENEFITS TRIALS: SUMMARY AND UPDATE OF FINDINGS

Jack Colford
University of California Berkeley School of Public Health, Berkeley, CA, United States

9 a.m.

WHAT'S NEXT?

Andrew Prendergast
Queen Mary University of London, London, United Kingdom

Symposium 72

The Full Public Health Value of Vaccines

Convention Center - Room 343/344 (Level 300)

Tuesday, November 7, 8 a.m. - 9:45 a.m.

Supported with funding from Sanofi Pasteur

Interest has increased on considering the full public health value (FPHV) of vaccines when setting priorities, making regulatory decisions and establishing policy for public health activities. This marks a shift away from a historical therapeutic paradigm to a public health paradigm. The former focuses on prospective, blinded and individually-randomized phase III trials to assess direct efficacy and safety. The latter emphasizes a vaccine's population impact using, for example, probe studies or community-randomized trials that can estimate overall efficacy for a range of outcomes. The FPHV of vaccines includes their ability to prevent or reduce health inequity, social and political disruption, individual and household financial ruin, disruption of household integrity, school absenteeism and work loss, health care utilization, long-term/on-going disability, the development of antibiotic resistance, and a range of non-etiological and etiological defined clinical outcomes. Several meetings and manuscripts have started to develop the concept of the FPHV of vaccines and the current symposia will extend this work and apply it to vaccines of interest to ASTMH members and meeting attendees. The first talk will focus on the RTS,S malaria vaccine, emphasizing that the burden of malaria is so great in many areas that even a vaccine with modest efficacy will provide great public health value. The second talk will focus on dengue vaccines, and emphasize how vaccines can prevent or minimize outbreaks and the subsequent disruption of health care services, increased school and work absenteeism, and reduction of economic activities such as tourism. The third talk will focus on oral cholera vaccine and implications for an outbreak driven disease in resource poor settings and for which other preventive interventions exist. The final talk will focus on the application of concepts to trial design, outcomes and measures, and implications for regulators and policy-makers, using examples of the recent Ebola vaccine trial in The Gambia and planned typhoid conjugate vaccine trials in Asia and Africa. The goal for this session is for attendees to appreciate that vaccine efficacy and safety are key regulatory concerns but in isolation do not provide information for public health decisions; to understand key measures used to assess a vaccine's public health value such as vaccine preventable disease incidence; to be able to identify the many ways in which vaccines provide public health value other than direct protection of individuals against etiologically confirmed disease; and to apply lessons learned to vaccines for diseases of interest to ASTMH members and meeting attendees.

CHAIR

Bradford D. Gessner
AMP, Paris, AK, United States

David Kaslow
PATH, Seattle, WA, United States

8 a.m.

THE FULL PUBLIC HEALTH VALUE OF MALARIA VACCINES

David Kaslow

PATH, Seattle, WA, United States

8:20 a.m.

THE FULL PUBLIC HEALTH VALUE OF DENGUE VACCINES

Joao Bosco Siqueira

Institute of Tropical Pathology and Public Health, Federal University of Goias, Goiania, Brazil

8:40 a.m.

THE FULL PUBLIC HEALTH VALUE OF ORAL CHOLERA VACCINE

Bradford D. Gessner

AMP, Paris, AK, United States

9 a.m.

SUMMARY OF CONCEPTS AND MOVING FORWARD

Kathy Neuzil

Center for Vaccine Development, Baltimore, MD, United States

Exhibit Hall Open

Convention Center - Swing Hall (Level 100)

Tuesday, November 7, 9:30 a.m. - 10:30 a.m.

Coffee Break

Convention Center - Swing Hall (Level 100)

Tuesday, November 7, 9:45 a.m. - 10:15 a.m.

Sponsored by Sanofi Pasteur CONTRIBUTOR

Poster Session B Set-Up

Convention Center - Hall F and G (Level 100)

Tuesday, November 7, 9:45 a.m. - 10:15 a.m.

Bonus Event

GET A SHOT. GIVE A SHOT.®

Convention Center - Pratt Street Lobby (Level 300)

Tuesday, November 7, 10 a.m. - 5 p.m.

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed17 giving attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

Bonus Event

UNDER THE NET

Convention Center - Pratt Street Lobby Foyer (Level 300)

Tuesday, November 7, 10 a.m. - 5 p.m.

Walk in the shoes of 11-year-old Amisa, a refugee living in the Nyarugusu Refugee Camp in Tanzania, through a virtual reality experience (VR) presented by the UN Foundation's Nothing But Nets campaign. Under the Net is the story of Amisa, her mother

and six siblings as they struggle to survive each day with no protection from mosquitoes that carry malaria at night. Be sure to stop by the Nothing But Nets exhibit and watch Amisa's story through her eyes – as only VR can present it.

Bonus Event

PROJECT ZERO

Convention Center - Pratt Street Lobby (Level 300)

Tuesday, November 7, 10 a.m. - 5 p.m.

Don't miss the latest virtual reality (VR) films by Huffington Post's Project Zero, an ongoing series created to raise awareness around neglected tropical diseases and efforts to fight them. Three 360-degree VR films tell the untold stories of the victims and health workers battling Elephantiasis, River Blindness and Sleeping Sickness in some of the most remote and underdeveloped regions of the world. Explore the challenges of and progress toward eliminating these diseases in an experience provided through the VR format.

Poster Session B Viewing

Convention Center - Hall F and G (Level 100)

Tuesday, November 7, 10:15 a.m. - Noon

Scientific Session 73

Malaria: Biology and Pathogenesis

Convention Center - Ballroom I (Level 400)

Tuesday, November 7, 10:15 a.m. - Noon

CHAIR

Thomas S. Churcher

Imperial College London, London, United Kingdom

Kenneth Christopher Gavina

University of Alberta, Edmonton, AB, Canada

10:15 a.m.

733

EXPERIMENTAL MALARIA IN PREGNANCY IS ASSOCIATED WITH ALTERED FETAL NEUROGENESIS AND NEUROPSYCHIATRIC DISORDERS IN OFFSPRING

Andrea Weckman¹, Vanessa Tran², Chloe McDonald², Guang Yang³, David Kaplan², Kevin C. Kain²

¹Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada, ²Sandra Rotman Centre for Global Health, University Health Network-Toronto General Hospital, Tropical Disease Unit, Department of Medicine, University of Toronto, Toronto, ON, Canada, ³Program in Neuroscience and Mental Health, Sick Kids Hospital, Toronto, ON, Canada

10:30 a.m.

734

TCR COMBINATORIAL IMMUNORECEPTOR EXPRESSION BY NEUTROPHILS CORRELATES WITH PARASITE BURDEN AND ENHANCED PHAGOCYTOSIS DURING A *PLASMODIUM BERGHEI* ANKA MALARIA INFECTION

Miranda Oakley, Joanna Chorazeczewski, Victoria Majam, Adovi Akue, Mark KuKuruga, Maya Aleshnick, Sanjai Kumar

Food and Drug Administration, Silver Spring, MD, United States

(ACMCIP Abstract)

10:45 a.m.

735

SUBMICROSCOPIC MALARIA INFECTIONS ARE NOT ASSOCIATED WITH NEGATIVE BIRTH OUTCOMES IN PREGNANT WOMEN FROM COLOMBIA

Kenneth Gavina¹, Sedami Gnidehou², Eliana Arango³, Chloe Hamel-Martineau⁴, Catherine Mitran⁵, Aisha Karidio⁴, Shanna Banman⁵, Olga Agudelo³, Carolina Lopez³, Jaime Carmona-Fonseca³, Ali Salanti⁶, Nicaise Ndam⁷, Michael Hawkes⁸, Amanda Maestre³, Stephanie Yanow⁵

¹Department of Medical Microbiology and Immunology, University of Alberta, Edmonton, AB, Canada, ²Campus Saint-Jean, University of Alberta, Edmonton, AB, Canada, ³Universidad de Antioquia, Medellin, Colombia, ⁴Campus Saint-Jean, University of Alberta, Edmonton, AB, Canada, ⁵School of Public Health, University of Alberta, Edmonton, AB, Canada, ⁶University of Copenhagen, Copenhagen, Denmark, ⁷University of Ghana, Accra, Ghana, ⁸Pediatrics, University of Alberta, Edmonton, AB, Canada

11 a.m.

736

PROBABILITY OF TRANSMISSION OF MALARIA FROM MOSQUITO TO HUMAN IS REGULATED BY PARASITE DENSITY IN NAIVE AND VACCINATED HOSTS

Thomas S. Churcher¹, Robert E. Sinden¹, Nick J. Edwards², Ian Poulton², Thomas W. Rampling², Patrick M. Brock¹, Jamie T. Griffin¹, Leanna M. Upton¹, Sara E. Zakutansky¹, Katarzyna A. Sala¹, Fiona Angrisano¹, Adrian V. Hill², Andrew M. Blagborough¹

¹Imperial College London, London, United Kingdom, ²The Jenner Institute, Oxford, United Kingdom

11:15 a.m.

737

CHARACTERIZING THE ROLE OF A UNIQUE PHISTB PROTEIN IN VAR2CSA ADHESION, PLACENTAL MALARIA PATHOGENESIS AND IMMUNITY

Bethany J. Jenkins¹, Sanjay A. Desai², Patrick E. Duffy¹, Michal Fried¹
¹Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ²Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

11:30 a.m.

738

TRAFFICKING AND TOPOLOGY IDENTIFICATION OF PLASMODIUM FALCIPARUM MAURER'S CLEFT TWO TRANSMEMBRANE PROTEIN

Raghavendra Yadavalli¹, John W. Peterson², Judith A. Drazba², Tobili Yvonne Sam-Yellowe¹

¹Cleveland State University, Cleveland, OH, United States, ²The Cleveland Clinic, Cleveland, OH, United States

(ACMCIP Abstract)

11:45 a.m.

739

INTRA AND INTER-INDIVIDUAL RED BLOOD CELL VARIABILITY IN BIND TO PLASMODIUM VIVAX DUFFY BINDING PROTEIN

Celia Dechavanne¹, Sebastien Dechavanne¹, Rich Fong¹, Sushma Krishnan¹, Lenore Carias¹, Edwin Chen², Nicole D. Salinas², Anil Ghosh¹, Niraj H. Tolia², Christopher L. King¹, Peter A. Zimmerman¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Washington University School of Medicine, St. Louis, MO, United States

Symposium 74

Ivermectin and Mosquitoes: The Vital Role of Pharmacokinetics and Pharmacodynamics

Convention Center - Ballroom II (Level 400)

Tuesday, November 7, 10:15 a.m. - Noon

Ivermectin mass drug administration (MDA) to humans has been proposed as a novel transmission control tool measure to aid global malaria elimination efforts. Field trials in West Africa have indicated that ivermectin MDAs can suppress malaria transmission as measured by mosquito and human parameters. However, there is discordance between *in vitro* mosquito survivorship assays, pharmacokinetic predictions of ivermectin and results from clinical trials. Recent clinical trial evidence indicates that ivermectin treatment of humans has much greater mosquito-lethal impact than initially predicted. This suggests that there may be ivermectin metabolites with mosquito-lethal properties which extend pharmacodynamic effects beyond what the parent compound predicts. It is critical to evaluate and quantify the pharmacokinetic and pharmacodynamic (PK-PD) relationship of human treatment and mosquito killing duration. Two clinical trials have evaluated the pharmacokinetic interaction and mosquito-lethal efficacy of ivermectin and dihydroartemisinin-piperazine (DHA-PQP) on *Anopheles* survival in Thailand and Kenya. These ivermectin PK-PD results will provide the basis for development of novel drug co-formulations and long-lasting drugs to enhance and extend the mosquito-lethal and therapeutic effects of ivermectin. Current ivermectin formulations as a single dose during MDA can interrupt malaria transmission but this effect could be greater with novel strategies. The dose used for onchocerciasis and lymphatic filariasis MDAs is based on weight. Weight-based dosing of ivermectin hampers the possibility to co-formulate with other fixed-dose drugs. Ongoing studies have evaluated novel single-dose tablets (18 or 36 mg) that would result in the population receiving a wide dosage range rather than a target weight-based dosage. Recently, an oral, ultra-long-acting capsule that can release ivermectin for days to weeks and potentially longer has been developed. Advances presented here include development of an animal model and planning of first human trials. Both novel ivermectin formulations reduce logistical issues during MDA. A mathematical model describing the impact of ivermectin on malaria transmission has been developed to translate the PK-PD data into estimates of potential public health impact. Using new data, efforts have focused on extending the pharmacodynamic component of the model to capture the observed discrepancy between ivermectin levels in the blood and mosquito killing efficacy. The model can inform where a higher dose or novel formulation of ivermectin may be particularly effective, based on the different levels of transmission intensity, seasonality and vector dynamics.

CHAIR

Brian D. Foy
Colorado State University, Fort Collins, CO, United States

Joel Tarning
Mahidol University, Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand

Tuesday
November 7

10:15 a.m.

IVERMECTIN FOR MALARIA IN SOUTHEAST ASIA (IMSEA STUDY, THAILAND)

Kevin Kobylinski

Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

10:30 a.m.

HIGH-DOSE IVERMECTIN FOR MALARIA ELIMINATION: A DOSE-FINDING STUDY (IVERMAL STUDY, KENYA)

Menno Smit

Liverpool School of Tropical Medicine at KEMRI/Centers for Disease Control and Prevention, Kisumu, Kenya

10:45 a.m.

SINGLE-DOSE IVERMECTIN TABLET: A NEW PARADIGM

Jose Munoz

Barcelona Institute for Global Health, IS Global, Barcelona, Spain

11:10 a.m.

LEVERAGING THE GI TRACT FOR THERAPEUTIC INNOVATIONS

Giovanni Traverso

Harvard Medical School, Brigham and Women's Hospital, Boston, MA, United States

11:35 a.m.

MODELLING THE IMPACT OF HIGH-DOSE IVERMECTIN ON MALARIA TRANSMISSION

Hannah Slater

Imperial College London, London, United Kingdom

Symposium 75

Tracking the Impact of SMC: An Assessment of the Impact and Cost Effectiveness of Seasonal Malaria Chemoprevention in West and Central Africa

Convention Center - Ballroom III (Level 400)

Tuesday, November 7, 10:15 a.m. - Noon

Eleven countries now have SMC programs targetting about 14 million children in 2016 and 17 million in 2017. This symposium will present an assessment of the impact of these programs in reducing the malaria burden, the cost effectiveness of SMC, and model predictions of how the impact of SMC could be further increased by adapting the strategy to local epidemiological contexts. Malaria surveillance is one of the three pillars of the new Global Technical Strategy for malaria, but it continues to be challenging to make malaria surveillance data available and use them to track progress. The session will feature examples from seven countries (Burkina Faso, Chad, Gambia, Guinea, Mali, Niger and Nigeria) to show how national malaria surveillance data have been used to understand the impact of SMC. Incompleteness, and aggregation to broad age groups, limits the usefulness of these data, so to provide more complete information, sentinel sites have been established in each country. The speakers will present an analysis of these data and argue for the use of sentinel sites for tracking progress and for planning. These direct assessments of impact from facility-based surveillance will be compared with indirect estimates based on modelling. An analysis of the factors influencing the cost-effectiveness of SMC will be presented, leading to recommendations about the most

cost-effective delivery strategies and the selection of areas where the intervention will be most cost-effective. In Cameroon, the National Malaria Control Program has recently introduced SMC in a population of 1.4 million children in the northern part of the country. The coordinator of the national program will describe how this was achieved, the approaches used to monitor the impact of the intervention and plans for sustaining the program. The final talk will bring together results from modelling studies to understand how the impact of SMC can be maximized. It was originally envisaged that SMC, limited to under 5's, would not contribute to reducing the overall level of malaria transmission, but research in Senegal has shown that when SMC programs include children up to 10 years of age, the intervention can reduce transmission. A further modification of the strategy that may contribute to further reducing transmission is the administration of an additional cycle or cycles. Model predictions of which of these strategies, alone or in combination, should be used in different areas of the sub-Saharan region, will be presented.

CHAIR

Paul J. Milligan

London School of Hygiene & Tropical Medicine, London, United Kingdom

Ebenezer Baba

Malaria Consortium, Kampala, Uganda

10:15 a.m.

TRACKING PROGRESS AGAINST MALARIA: SURVEILLANCE SYSTEMS IN EIGHT COUNTRIES AND ASSESSMENT OF IMPACT OF SMC

Jean Louis NDiaye

University of Thies, Thies, Senegal

10:20 a.m.

COST EFFECTIVENESS OF SMC IN SEVEN COUNTRIES

David Collins

Management Systems for Health, Medford, MA, United States

10:30 a.m.

MONITORING THE INTRODUCTION OF SMC IN CAMEROON

Dorothy Achu

National Malaria Control Program, Ministry of Public Health - Cameroon, Yaounde, Cameroon

10:40 a.m.

OPTIMIZING THE IMPACT OF SMC: MODELLING THE JOINT EFFECTS OF INCREASING THE AGE RANGE, AND ADDING ADDITIONAL CYCLES

Matthew Cairns

London School of Hygiene & Tropical Medicine, London, United Kingdom

Symposium 76

Clinical Group Symposium II (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH): Updates in Clinical Practice in Tropical and Travel Medicine

Convention Center - Ballroom IV (Level 400)

Tuesday, November 7, 10:15 a.m. - Noon

The Clinical Group's goal is to strengthen professional excellence in delivering high-quality, evidence-based clinical care in the practice of tropical and travel medicine. This symposium will focus on evolving best practices in tropical and travel medicine.

Presentations will employ clinical cases to update attendees on prevention, diagnosis and treatment of tropical infections. Additionally, changes in travelers' health guidance from CDC will be presented.

CHAIR

John W. Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

David M. Brett-Major
Military HIV Research Program; Henry M. Jackson Foundation, Silver Spring, MD, United States

10:15 a.m.

CASE MANAGEMENT OF TROPICAL INFECTIOUS DISEASES AND TRAVEL MEDICINE

Christina Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

10:35 a.m.

CASE MANAGEMENT OF TROPICAL INFECTIOUS DISEASES AND TRAVEL MEDICINE

Michael Libman
McGill University Health Centre, Montreal, QC, Canada

10:55 a.m.

CASE MANAGEMENT OF TROPICAL INFECTIOUS DISEASES AND TRAVEL MEDICINE

Gregory J. Martin
U.S. Department of State, Washington, DC, United States

11:15 a.m.

CDC UPDATE IN TRAVELERS' HEALTH

Gary Brunette
Centers for Disease Control, Atlanta, GA, United States

11:35 a.m.

ACCTMTH ANNUAL BUSINESS MEETING

John W. Sanders
Wake Forest University School of Medicine, Winston-Salem, NC, United States

Symposium 77

Vector-Borne Diseases and the WHO Global Vector Control Response

Convention Center - Room 318/319/320 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

Major vector-borne diseases of humans include malaria, dengue, lymphatic filariasis, Chagas disease, onchocerciasis, leishmaniasis, Chikungunya, Zika virus disease, Yellow Fever, Japanese encephalitis and schistosomiasis. Other vector-borne diseases are of local importance in specific areas or populations, such as tick-borne diseases. Together these account for around 17% of the estimated global burden of communicable diseases and disproportionately affect poorer populations. They impede economic development through direct medical costs and indirect costs such as loss of productivity and tourism. Social, demographic and environmental factors strongly influence transmission patterns, with major outbreaks of dengue, malaria, Chikungunya, Yellow Fever and Zika virus disease since 2014. Most vector-borne diseases can be prevented by vector control, if it is implemented well. Major reductions in the incidence of malaria, onchocerciasis and Chagas disease have been largely

due to strong political and financial commitment. For other vector-borne diseases, vector control has not yet been used to its full potential or had maximal impact. This situation can be reversed by realigning programs to optimize the delivery of interventions that are tailored to the local context. In June 2016, a fast-tracked but broadly consultative process was launched by the WHO Global Malaria Program, WHO Department of Control of Neglected Tropical Diseases, and Special Program for Research and Training in Tropical Diseases to develop a strategy to strengthen vector control globally. The Global Vector Control Response 2017-2030 received strong support from Member States at the World Health Assembly in May 2017, and a resolution was adopted (WHO70.16). The Response calls for improved public health entomology (and malacology) capacity and capability, a well-defined national research agenda, better coordination within and between sectors, community involvement in vector control, strengthened monitoring systems and scale up of vector control supported by better availability and use of novel interventions with proven effectiveness. In this symposium, the technical elements and implementation of the Global Vector Control Response 2017-2030 will be discussed from global, regional and national perspectives.

CHAIR

Pedro L. Alonso
World Health Organization, Global Malaria Programme, Geneva, Switzerland

John Reeder
World Health Organization, Special Programme for Research and Training in Tropical Diseases, Geneva, Switzerland

10:15 a.m.

CURRENT GLOBAL SITUATION OF VECTOR-BORNE DISEASES

Steven W. Lindsay
Durham University, Durham, United Kingdom

10:35 a.m.

GLOBAL VECTOR CONTROL RESPONSE AND ITS IMPLEMENTATION

Tessa B. Knox
World Health Organization, Geneva, Switzerland

10:55 a.m.

STRENGTHENING PUBLIC HEALTH ENTOMOLOGY AND VECTOR CONTROL IN THE REGION OF THE AMERICAS

Luis G. Castellanos
Pan American Health Organization, Washington, DC, United States

11:15 a.m.

PERSPECTIVES AND OPPORTUNITIES FOR OPTIMIZED VECTOR CONTROL IN THE AFRICAN CONTEXT

Eunice Misiani
Malaria and Other Vector Borne Diseases, Pretoria, South Africa

Symposium 78

Research Capacity Development: Harnessing the Sharing Revolution in Global Health Research

Convention Center - Room 321/322/323 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

This symposium brings together four different, bold and impactful research capacity development initiatives that share a common approach: they are all harnessing the digital sharing phenomena to drive the delivery of new skills to enable research where life-saving evidence is missing. These four projects are all engaging with frontline healthcare workers and research staff in low-resource settings, and working with them to create highly effective communities of practice to increase research outputs, quality and standards from the areas of the world where new data to drive changes are drastically limited. In 2013 the WHO said unless low- and middle-income countries become the generators rather than the recipients of data, then there is never going to be any true change in their burdens to public health. These countries are largely still not leading their own research studies and agendas and far too few studies are undertaken in the diseases of poverty that limit health in these nations. To undertake such studies, health workers, in all roles, need to be given the training and support to learn research skills and be encouraged to engage in the effort to gather evidence to change health. This symposium has the following integrated elements:

1. REDe is the Research Capacity Development Network for Disease Outbreaks that is led from the three EU funded Zika consortia and is tasked with creating a regional research network that can respond to emerging infectious diseases (EID).
2. Developing and Nurturing Careers in Research for Healthcare and Laboratory Workers in LMICs: WHO-TDR has developed a single, flexible framework for core competencies in clinical research within a professional membership scheme.
3. Proving scientists can share: The Global Health Network's aim is to enable life-saving evidence to be gathered in the world's poorest countries. This is a digital platform for medical researchers around the world, and it is changing the way that scientists work. Over one million visits have been received, from over 100,000 memberships, with individuals visiting from 196 countries.
4. Working together to deliver 'how-to' research skills: Blended learning is the new buzz phrase but it really does work. Within this initiative over 195,500 online learning modules have been taken in LMIC and these courses were developed by over 20 research organizations (such as WHO, PAHO and the Nuffield Council on Bioethics) who have worked together to create the highest standard teaching to reach all levels of research staff.

CHAIR

Trudie A. Lang

The University of Oxford, Oxford, United Kingdom

Jacqueline Alger

University Hospital in Tegucigalpa, Tegucigalpa, Honduras

10:15 a.m.

DEVELOPING AND NURTURING CAREERS IN RESEARCH FOR HEALTHCARE AND LABORATORY WORKERS IN LMICs

Morenike Ukpong

Obafemi Awolowo University, Ibadan, Nigeria

10:30 a.m.

WORKING TOGETHER TO DELIVER 'HOW-TO' RESEARCH SKILLS

Joby George

Medicity Hospital, Gurgaon, India

10:45 a.m.

PROVING SCIENTIST CAN SHARE

Trudie Lang

University of Oxford, Oxford, United Kingdom

11 a.m.

REDE THE RESEARCH CAPACITY NETWORK FOR LATIN AMERICA

Jacqueline Alger

University Hospital in Tegucigalpa, Tegucigalpa, Honduras

Scientific Session 79

Schistosomiasis: Epidemiology, Control and Diagnostics

Convention Center - Room 324/325/326 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

CHAIR

Nilanjan Lodh

Marquette University, Milwaukee, WI, United States

Renata Russo Frasca Candido

The University of Western Australia, Crawley, Australia

10:15 a.m.

740

PREVALENCE AND INCIDENCE OF SCHISTOSOME INFECTION AND MORBIDITY IN PRE-SCHOOL CHILDREN AGED 6 MONTHS TO 5 YEARS

Derick N. Osakunor¹, Takafira Mduluz², Nicholas Midzi², Mark E. Woolhouse¹, Francisca Mutapi¹

¹University of Edinburgh, Edinburgh, United Kingdom, ²University of Zimbabwe, Harare, Zimbabwe

10:30 a.m.

741

DETECTION OF MULTI SCHISTOSOME PARASITES FROM SINGLE FILTERED URINE SAMPLES FROM SCHOOL CHILDREN AFTER MDA IN ZAMBIA

Nilanjan Lodh¹, Mary Thao¹, Megan J. Hessler¹, Austin Cyrs¹, Steven C. Krenzke¹, El Shaimaa Mahmoud¹, Chummy Sikasunge², James Mwansa²

¹Marquette University, Milwaukee, WI, United States, ²The University of Zambia, Lusaka, Zambia

10:45 a.m.

742

ASSESSMENT OF MORBIDITY DUE TO S. MANSONI IN SCHOOL-AGED CHILDREN IN MADAGASCAR

Stephen Spencer¹, James Penney², Cortland Linder², Hannah Russell², Stephanie Jokhan², Sheena Cruickshank², Amaya Bustinduy³, Alain Rahetilahy⁴

¹Royal United Hospital, Bath, United Kingdom, ²University of Manchester, Manchester, United Kingdom, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴Madagascar Ministry of Public Health, Antananarivo, Madagascar

11 a.m.

743

IMPACT OF THREE YEARS' INTENSIVE, COMMUNITY-WIDE ANTHELMINTHIC TREATMENT ON ALLERGY-RELATED OUTCOMES, HELMINTH PREVALENCE AND HELMINTH-ASSOCIATED PATHOLOGY AMONG HIGH SCHISTOSOMA MANSONI TRANSMISSION ISLAND COMMUNITIES OF LAKE VICTORIA, UGANDA: RESULTS OF A CLUSTER-RANDOMIZED TRIAL

Richard E. Sanya¹, Gyaviira Nkurunungi¹, Remy Hoek Spaans¹, Margaret Nampijja¹, Moses Kiiza¹, Joy Kabagenyi¹, Edridah Tukahebwa², Emily L. Webb³, Alison M. Elliott¹

¹Medical Research Council/UVRI Uganda Research Unit, Entebbe, Uganda, ²Vector Control Division, Ministry of Health, Kampala, Uganda, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

11:15 a.m.

744

A HIGH FIELD GRADIENT MAGNETIC PROBE FOR THE ISOLATION OF SCHISTOSOME EGGS FROM FECAL MATTER BASED ON THEIR INTERACTION WITH MAGNETIC PARTICLES

Renata Russo Frasca Candido¹, Robert Charles Woodward¹, Vivian Favero², Catieli Lindholz², Alessandra Morassutti², Carlos Graeff-Teixeira², Malcolm Kenneth Jones³, Timothy Guy St. Pierre¹

¹The University of Western Australia, Crawley, Australia, ²Pontificia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil, ³The University of Queensland, Brisbane, Australia

11:30 a.m.

745

POINT OF CARE DIAGNOSIS FOR MULTIPLE SCHISTOSOME PARASITES: SPECIES-SPECIFIC DNA DETECTION FROM SINGLE URINE SAMPLE BY LAMP < AND > FOR > PCR

Nilanjan Lodh¹, Kei Mikita², Kwabena M. Bosompem³, William K. Anyan³, Joseph K. Quartey³, Joseph Otchere³, Miriam Price¹, Clive J. Shiff⁴

¹Marquette University, Milwaukee, WI, United States, ²Keio University School of Medicine, Tokyo, Japan, ³Noguchi Memorial Institute for Medical Research (NMIMR), Accra, Ghana, ⁴Johns Hopkins University, Baltimore, MD, United States

11:45 a.m.

746

TREATMENT EFFECTS ON EGG AND ANTIGEN DIAGNOSTICS OF SCHISTOSOMA MANSONI INFECTIONS

Joaquin M. Prada¹, Poppy H. Lambertson², Moses Adriko³, Moses Arinaitwe³, David W. Oguttu³, Panayiota Touloupou¹, Deirdre Hollingsworth¹

¹University of Warwick, Coventry, United Kingdom, ²University of Glasgow, Glasgow, United Kingdom, ³Ministry of Health Uganda, Kampala, Uganda

Symposium 80

Fogarty International Center: Advancing Multidisciplinary Research to Understand the Ecology and Evolution of Infectious Diseases

Convention Center - Room 327/328/329 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

Many infectious diseases of global health significance, including zoonotic, vectorborne and waterborne diseases, are poorly controlled using current tools in the context of rapidly changing environments (e.g., urbanization, climate change, deforestation), challenges with insecticide and drug resistance, and increased population mobility. The disease challenges include old enemies such as dengue, Chagas, malaria, schistosomiasis, leptospirosis and cholera, and newly emerging/remerging diseases such as

Ebola, Zika, SARS, Nipah virus, H5N1, Buruli ulcer, monkeypox and MERS-CoV, among others. Efforts to address global infectious disease threats through development and distribution of drugs and vaccines, and training clinicians, have grown in recent years. However, there continues to be a significant gap in population-level studies that enable us to predict and interrupt transmission and/or emergence of these diverse and persistent threats. As recent outbreaks have shown, there remains a clear need for improved multidisciplinary, quantitative and qualitative approaches to understand, predict and control these diseases. The Ecology and Evolution of Infectious Diseases (EEID) program is a unique multi-agency competitive research grant program launched by the Fogarty International Center of the National Institutes of Health and the National Science Foundation over fifteen years ago. This partnership now brings together the scientific expertise and resources of several domestic and international agencies to foster a research community that addresses challenges at the interface of ecology and health. The program provides an opportunity for nontraditional research partners (e.g., agriculture, environmental science, evolutionary biology and mathematical modeling) to consider the global health agenda, and it encourages biomedical scientists to consider ecological and environmental factors (e.g., One Health or Planetary Health concept). Through its awards, the EEID program also aims to foster enhanced research capacity for disease ecology research, particularly in low- and middle-income settings. Symposium participants are investigators on tropical disease-focused EEID awards. Participants will share recent advances in the use of mathematical or computational modeling to understand the ecological and evolutionary mechanisms underlying the emergence and transmission of infectious diseases. Scientific presentations will be followed by a panel discussion of the challenges and opportunities for multidisciplinary disease ecology research and research capacity building.

CHAIR

Christine M. Jessup
Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

Barbara Sina
Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

INTRODUCTION: THE MULTIAGENCY ECOLOGY AND EVOLUTION OF INFECTIOUS DISEASES (EEID) PROGRAM

Christine M. Jessup
Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

10:25 a.m.

BIOLOGICAL AND HUMAN DIMENSIONS OF PRIMATE RETROVIRAL TRANSMISSION

Tony Goldberg
University of Wisconsin Madison, Madison, WI, United States

10:45 a.m.

MALARIA SURVEILLANCE, MATHS AND VARIANT ANTIGEN GENES

Karen Day
University of Melbourne, Melbourne, Australia

Tuesday
November 7

11:05 a.m.

SLUMS, RATS AND LEPTOSPIROSIS: ECO-EPIDEMIOLOGY OF THE DISEASE IN A BRAZILIAN URBAN SETTLEMENT

Albert I. Ko

Yale University, New Haven, CT, United States

11:25 a.m.

EFFECTS OF AGRICULTURAL EXPANSION AND INTENSIFICATION ON INFECTIONS

Jason R. Rohr

University of South Florida, Tampa, FL, United States

Scientific Session 81

Bacteriology: Other

Convention Center - Room 331/332 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

CHAIR

Elizabeth B. Brickley

Geisel School of Medicine at Dartmouth College, West Lebanon, NH, United States

Jeffrey Donowitz

Virginia Commonwealth University, Richmond, VA, United States

10:15 a.m.

747

BREAST MILK EPIDERMAL GROWTH FACTOR IS ASSOCIATED WITH GROWTH AND DIARRHEA IN BANGLADESHI CHILDREN

Jeffrey Donowitz¹, Masud Alam², Rashidul Haque², Beth D. Kirkpatrick³, Hafiz Kakon², Bushra Zarin Islam², Sajia Afreeen², E. Ross Colgate³, Marya P. Carmolli³, William A. Petri⁴

¹Virginia Commonwealth University, Richmond, VA, United States,

²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³The University of Vermont College of Medicine, Burlington, VT, United States, ⁴University of Virginia, Charlottesville, VA, United States

10:30 a.m.

748

VACCINE-INDUCED MUCOSAL IMMUNITY FROM IPV-BOPV AND IPV-ONLY IMMUNIZATION SCHEDULES: ANALYSIS OF AN OPEN-LABEL, RANDOMIZED CONTROLLED TRIAL IN CHILEAN INFANTS

Elizabeth B. Brickley¹, Wendy Wieland-Alter², Ruth I. Connor¹, Margaret E. Ackerman³, Austin W. Boesch³, Minetaro Arita⁴, Miguel G. O'Ryan⁵, Ananda S. Bandyopadhyay⁶, Peter F. Wright²

¹Geisel School of Medicine at Dartmouth College, Lebanon, NH, United States,

²Dartmouth-Hitchcock Medical Center, Lebanon, NH, United States, ³Thayer School of Engineering at Dartmouth College, Hanover, NH, United States, ⁴National Institute of Infectious Diseases, Tokyo, Japan, ⁵University of Chile, Santiago, Chile, ⁶Bill & Melinda Gates Foundation, Seattle, WA, United States

10:45 a.m.

749

IMMUNOGENICITY AND PROTECTIVE EFFICACY OF A LIVE ATTENUATED ETEC VACCINE CANDIDATE AGAINST VIRULENT ENTEROTOXIGENIC *ESCHERICHIA COLI* (ETEC) IN A HUMAN ETEC CHALLENGE MODEL

Subhra Chakraborty¹, Clayton Harro¹, Jessica Brubaker¹, Barbara DeNearing¹, Nicole Bauers², Len Dally³, Alan Fix², Sachin Mani², Louis Bourgeois², David Sack¹, Richard Walker²

¹Johns Hopkins University, Baltimore, MD, United States, ²PATH, Washington, DC, United States, ³The EMMES Corporation, Rockville, MD, United States

11 a.m.

750

WHEN IS A CONTROL NOT A CONTROL? —ANALYSIS OF DIARRHEA AND ENTERIC INFECTION AMONG CONTROLS IN THE GLOBAL ENTERIC MULTICENTER STUDY, KENYA, 2008-2012

David M. Berendes¹, Ciara E. O'Reilly², Sunkyung Kim², Richard Omoro³, John B. Ochieng³, Tracy Ayers², Kirsten Fagerli², Tamer H. Farag⁴, Dilruba Nasrin⁵, Sandra Panchalingam⁵, James P. Nataro⁶, Karen L. Kotloff⁶, Myron M. Levine⁵, Joseph Oundo³, Kayla Laserson⁷, Robert F. Breiman⁸, Eric D. Mintz²

¹Georgia Institute of Technology, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Kenya Medical Research Institute, Center for Global Health Research, Kisumu, Kenya, ⁴Center for Vaccine Development, University of Maryland School of Medicine/Institute for Health Metrics and Evaluation, Baltimore, MD, United States, ⁵Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD, United States, ⁶Center for Vaccine Development, University of Maryland School of Medicine/Department of Pediatrics, University of Virginia School of Medicine, Baltimore, MD, United States, ⁷KEMRI/Centers for Disease Control and Prevention, CDC India, Kisumu, Kenya, ⁸Emory Global Health Institute, Atlanta, GA, United States

11:15 a.m.

751

IMPACT OF MENINGOCOCCAL SEROGROUP A CONJUGATE VACCINE ON MENINGITIS EPIDEMIOLOGY—BURKINA FASO, 2011-2015

Alpha Oumar Diallo¹, Heidi M. Soeters¹, Issaka Yameogo², Guetawendé Sawadogo², Flavien Aké³, Xin Wang¹, Lassana Sangaré⁴, Rasmata Ouédraogo-Traoré⁵, Isaïe Medah², Brice Bicaba², Ryan T. Novak¹

¹U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Direction de la Lutte contre la Maladie, Ministère de la Santé, Ouagadougou, Burkina Faso, ³Davycas International, Ouagadougou, Burkina Faso, ⁴Centre Hospitalier Universitaire Yalgado Ouédraogo, Ouagadougou, Burkina Faso, ⁵Centre Hospitalier Universitaire Pédiatrique Charles de Gaulle, Ouagadougou, Burkina Faso

11:30 a.m.

752

BIOMARKERS AND IMMUNE MODULATION IN BURULI ULCER DISEASE

Norman Nausch¹, Daniel Antwi-Berko², Yusif Mubarik², Kabiru M. Abass³, Wellington Owusu², Ellis Owusu-Dabo², Linda B. Debrah², Alexander Y. Debrah⁴, Marc Jacobsen¹, Richard O. Phillips⁵

¹University Hospital Dusseldorf, Dusseldorf, Germany, ²Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, ³Agogo Presbyterian Hospital, Agogo, Ghana, ⁴Kumasi Centre for Collaborative Research in Tropical Medicine and Faculty of Allied Health Sciences of Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁵Kumasi Centre for Collaborative Research in Tropical Medicine and School of Medical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

11:45 a.m.

753

IMMUNE RESPONSE TO RECOMBINANT PROTEINS OF *M. LEPRAE* POTENTIAL APPLICATION FOR LEPROSY DIAGNOSIS

Pedro H. Marçal¹, Lucia Alves Fraga², Tom Ottenhoff³, Annemieke Geluk³, Malcon Duthie⁴, Henrique Couto Teixeira⁵

¹Universidade Vale do Rio Doce, Governador Valadares, Brazil, ²Universidade Federal de Juiz de Fora - Campus GV, Governador Valadares, Brazil, ³Leiden University Medical Center, Amsterdam, Netherlands, ⁴Infectious Disease Research Institute (IDRI), Seattle, WA, United States, ⁵Universidade Federal de Juiz de Fora, Juiz de Fora, Brazil

11:45 a.m.

760

GENETIC ARCHITECTURE OF WOLBACHIA-MEDIATED DENGUE VIRUS BLOCKING IN AEADES AEGYPTI

Gerard Terradas¹, Scott L. Allen², Stephen F. Chenoweth², Elizabeth A. McGraw¹
¹Monash University, Clayton, Vic, Australia, ²The University of Queensland, Brisbane, Qld, Australia

Scientific Session 83

Filariasis: Clinical

Convention Center - Room 339/340 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

CHAIR

LeAnne M. Fox
Centers for Disease Control and Prevention, Atlanta, GA, United States

Elise O'Connell
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

761

ABBV-4083: A CLINICAL CANDIDATE FOR THE TREATMENT OF ONCHOCERCIASIS - EFFICACY IN THE L. SIGMODONTIS RODENT MODEL

Dominique Bloemker¹, Marc P. Hübner¹, Ivan Scandale², Tom von Geldern³, Kennan Marsh³, Mark J. Taylor⁴, Dale Kempf⁵, Achim Hoerauf¹
¹University Hospital Bonn, Bonn, Germany, ²Drugs for Neglected Diseases initiative, Geneva, Switzerland, ³AbbVie, North Chicago, IL, United States, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:30 a.m.

762

DETERMINING THE OPTIMAL DOSE OF MOXIDECTIN FOR ONCHOCERCIASIS VIA PHARMACOKINETIC-PHARMACODYNAMIC (PK-PD) MODELLING OF DATA FROM HEALTHY VOLUNTEERS AND PATIENTS WITH ONCHOCERCIASIS

Kris Jansen¹, Carl Kirkpatrick², Nicholas O. Opoku³, Simon K. Attah³, Kwablah Awadzi (Deceased)³, Annette C. Kuesel⁴, Piero Olliaro⁴, George Olipoh³, Victoria Ryg-Cornejo⁵, Beesan Tan⁶, Mark Sullivan⁵, Lawrence Fleckenstein⁶, Craig Rayner¹
¹d3 Medicine LLC - a Certara Company, Parsippany, NJ, United States, ²Faculty of Pharmacy and Pharmaceutical Sciences, Centre for Medicine Use and Safety, Monash University, Parkville, Australia, ³Onchocerciasis Chemotherapy Research Centre, Hohoe, Ghana, ⁴UNICEF/UNDP/World Bank/World Health Organization Special Programme on Research and Training in Tropical Diseases (TDR), Geneva, Switzerland, ⁵Medicines Development for Global Health, Southbank, Australia, ⁶University of Iowa, Iowa City, IA, United States

10:45 a.m.

763

A MULTICENTER STUDY OF THE SAFETY OF TRIPLE DRUG MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS

Gary J. Weil¹, Joshua Bogus¹, Christine Dubray², Peter U. Fischer¹, P. Jambulingam³, Christopher L. King⁴, Jean Frantz Lemoine⁵, Katuscia O'Brian¹, Leanne J. Robinson⁶, Taniawati Supali⁷
¹Washington University, St. Louis, MO, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Vector Control and Research Centre, ICMR, Puducherry, India, ⁴Case Western Reserve University, Cleveland, OH, United States, ⁵Ministry of Public Health and Population, Port-au-Prince, Haiti, ⁶Burnet Institute, Melbourne, Australia, ⁷Universitas Indonesia, Jakarta, Indonesia

Scientific Session 82

Mosquitoes: Molecular Genetics and Genomics

Convention Center - Room 337/338 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

CHAIR

Yuemei Dong
Johns Hopkins University, Baltimore, MD, United States

Zachary R. Popkin-Hall
Texas A&M University, College Station, TX, United States

10:15 a.m.

754

HERITABLE GENE EDITING BY TARGETED DELIVERY OF CAS9 NUCLEASE TO THE MOSQUITO GERMLINE

Jason L. Rasgon¹, Duverney Chaverra Rodriguez¹, Vanessa M. Macias¹, Grant L. Hughes², Yasutsugu Suzuki³, David R. Peterson¹, Sujit Pujhari¹
¹Pennsylvania State University, University Park, PA, United States, ²University of Texas Medical Branch, Galveston, TX, United States, ³Institut Pasteur, Paris, France

(ACMCIP Abstract)

10:30 a.m.

755

CRISPR-CAS9 MEDITATED GENE KNOCKOUT OF PLASMODIUM AGONISTS IN ANOPHELES GAMBIAE ENHANCES MOSQUITOES' RESISTANCE TO THE HUMAN MALARIA PARASITE

Yuemei Dong¹, Maria L. Simões¹, Eric Marois², George Dimopoulos¹
¹Johns Hopkins School of Public Health, Baltimore, MD, United States, ²Institut de Biologie Moléculaire et Cellulaire, UPR9022 CNRS, Strasbourg, France

10:45 a.m.

756

DEVELOPING EVOLUTIONARILY STABLE GENE DRIVES IN ANOPHELES GAMBIAE

Andrea L. Smidler
Harvard University, Boston, MA, United States

11 a.m.

757

SIRNA PESTICIDES TARGETING MULTIPLE MALARIA VECTOR MOSQUITO SPECIES

Molly Duman Scheel¹, Keshava Mysore¹, Limb Haparai¹, Kathleen Eggleston¹, Longhua Sun², Elizabeth Harper¹, Yingying Chen², Na Wei², David W. Severson²
¹Indiana University School of Medicine, South Bend, IN, United States, ²University of Notre Dame, Notre Dame, IN, United States

11:15 a.m.

758

CYTOGENETIC MECHANISMS OF HYBRID MALE STERILITY IN THE ANOPHELES GAMBIAE COMPLEX

Jiangtao Liang, Michael Hodge, Igor V. Sharakhov
Virginia Tech, Blacksburg, VA, United States

11:30 a.m.

759

CHEMOSENSORY GENE EXPRESSION IN THE PROBOSCIS OF ANOPHELES GAMBIAE S.L. MOSQUITOES WITH VARYING HOST PREFERENCE

Zachary R. Popkin-Hall¹, Luciano V. Cosme², Giridhar Athrey¹, Michel A. Slotman¹
¹Texas A&M University, College Station, TX, United States, ²Yale University, New Haven, CT, United States

11 a.m.

764

COMMUNITY RANDOMIZED SAFETY TRIAL OF TRIPLE-DRUG MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS IN PAPUA NEW GUINEA

Livingstone Tavul¹, Samuel Howard², Moses Laman¹, Steven Kumai³, Anna Samuel¹, Bethuel Kotty¹, Lina Lorry¹, Leo Makita⁴, Mary Yohogu⁴, Lucy John⁴, Sibauk Bieb⁴, James Wangi⁵, Peter Siba⁶, Joshua Bogus⁷, Katiusia O'Brian⁷, James Kazura⁸, Gary J. Weil⁷, Daniel Tisch⁸, Christopher L. King⁸, **Leanne J. Robinson⁹**

¹PNG Institute of Medical Research, Madang, Papua New Guinea, ²Case Western Reserve University; PNG Institute of Medical Research, Cleveland, OH, United States, ³Bogia District Health Administration, Bogia, Papua New Guinea, ⁴PNG National Department of Health, Port Moresby, Papua New Guinea, ⁵World Health Organisation - PNG, Port Moresby, Papua New Guinea, ⁶PNG Institute of Medical Research, Goroka, Papua New Guinea, ⁷University of Washington, St. Louis, MO, United States, ⁸Case Western Reserve University, Cleveland, OH, United States, ⁹Burnet Institute; PNG Institute of Medical Research; Walter & Eliza Hall Institute, Melbourne, Australia

11:15 a.m.

765

IDENTIFICATION OF POTENTIAL CLINICAL CANDIDATES WITH MACROFILARICIDAL EFFICACY FOR THE TREATMENT OF ONCHOCERCIASIS

Natalie Hawryluk¹, Marc Hubner², Achim Hoerauf², Dominique Blömker Blömker², Simon Townson³, Suzanne Gokool³, Coralie Martin⁴, Nathalya Vallarino-Lhermitte⁴, Agnieszka Chojnowsk⁵, Tamara Kreiss⁵, Monika Prorok⁵, John Siekierka⁵, Ivan Scandale⁶, Stacie Canan¹, Vikram Khetani⁷, Joseph Camardo⁷

¹Celgene Global Health, San Diego, CA, United States, ²Institute for Medical Microbiology, Immunology and Parasitology, Bonn, Germany, ³Northwick Park Institute for Medical Research, London, United Kingdom, ⁴Biodiversité et Adaptation des Microorganismes Eucaryotes à leur Environnement, Muséum National d'Histoire Naturelle, Paris, France, ⁵Sokol Institute of Pharmaceutical Life Sciences, Montclair State University, Montclair, NJ, United States, ⁶Drugs for Neglected Diseases initiative, Geneva, Switzerland, ⁷Celgene Global Health, Summit, NJ, United States

11:30 a.m.

766

DEVELOPMENT OF *ONCHOCERCA VOLVULUS* IN HUMANIZED NSG MICE

John B. Patton¹, Thomas Nutman², Jessica A. Hess¹, April Torigian¹, Sasisekhar Bennuru², Sara Lustigman³, David Abraham¹

¹Thomas Jefferson University, Philadelphia, PA, United States, ²National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ³New York Blood Center, New York, NY, United States

11:45 a.m.

767

PRE-CLINICAL USE OF FDA-APPROVED SMALL MOLECULE INHIBITORS AS MACROFILARICIDES IN *ONCHOCERCA VOLVULUS*: A POST-GENOMIC APPROACH

Elise M. O'Connell¹, Fidelis Cho-Nowa², Nancy Tricoche³, Aaron Bell⁴, Gargi Pal³, Sara Lustigman³, Thomas B. Nutman¹

¹National Institutes of Health, Bethesda, MD, United States, ²Biotechnology Unit, Faculty of Science, University of Buea, Buea, Cameroon, ³Lindsley F. Kimball Research Institute, New York Blood Center, New York, NY, United States, ⁴National Institutes of Health, Lindsley F. Kimball Research Institute, New York Blood Center, New York, NY, United States

(ACMCIP Abstract)

Scientific Session 84

Kinetoplastida: Molecular Biology and Immunology

Convention Center - Room 341/342 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

CHAIR

Hira L. Nakhasi

Food and Drug Administration, Bethesda, MD, United States

10:15 a.m.

768

ALTERATIONS IN THE IL27 PATHWAY ARE CORRELATED WITH THE LOSS OF *TRYPANOSOMA CRUZI*-SPECIFIC T CELLS IN PATIENTS WITH CHRONIC CHAGAS DISEASE

Maria A. Natale¹, Todd Minning², Maria G. Alvarez³, Rodolfo Viotti³, Graciela Bertocchi³, Bruno Lococo³, Maria C. Albareda¹, Rick L. Tarleton⁴, Susana A. Laucella¹

¹INP Dr. Mario Fatale Chaben, Ciudad Autonoma de Buenos Aires, Argentina, ²Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States, ³HIGA Eva Peron, San Martin, Argentina, ⁴Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States

(ACMCIP Abstract)

10:30 a.m.

769

INHIBITORY LIGAND PD-L1 ON MHC CLASS II-EXPRESSING NEUTROPHILS IN HUMAN AND MURINE LEISHMANIASIS

Richard E. Davis¹, Smriti Sharma², Yani Chen¹, Shyam Sundar², Mary E. Wilson¹

¹University of Iowa, Iowa City, IA, United States, ²Banaras Hindu University, Varanasi, India

(ACMCIP Abstract)

10:45 a.m.

770

TARGETING INHIBITORY RECEPTORS LAG3 AND TIM3 TO ENHANCE ANTI PARASITIC CD4 T CELL RESPONSES IN VISCERAL LEISHMANIASIS

Rajiv Kumar¹, Neetu Singh¹, Bhavana Singh¹, Shashi Bhushan Chauhan¹, Christian Engwerda², Shyam Sundar¹

¹Banaras Hindu University, Varanasi, India, ²QIMR Berghofer Medical Research Institute, Brisbane, Australia

(ACMCIP Abstract)

11 a.m.

771

BACTERIAL CO-INFECTION IN MURINE CUTANEOUS LEISHMANIASIS

Tiffany Y. Borbón¹, Gwendolyn Clay¹, Breanna Scorza¹, Alan Sariol¹, Yani Chen¹, Bayan Zhanbolat¹, Fayyaz Sutterwala², Mary E. Wilson¹

¹University of Iowa, Iowa City, IA, United States, ²Cedars-Sinai Medical Center, Los Angeles, CA, United States

(ACMCIP Abstract)

11:15 a.m.

772

TRANSCRIPTIONAL SIGNATURES ASSOCIATED WITH CD8+ T-CELLS RESPONSES DURING VISCERAL LEISHMANIASIS

Bhawana Singh¹, Rajiv Kumar¹, Shashi Bhusan Chauhan¹, Christian Engwerda², Shyam Sundar¹

¹Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, ²QIMR Berghofer Medical Research Institute, Brisbane, Australia

(ACMCIP Abstract)

11:30 a.m.

773

IMUNIZATION WITH LEISHMANIA DONOVANI DOUBLE KNOCK-OUT PARASITES (LDCEN^{-/-} MIF^{-/-}) INDUCES LONG TERM MEMORY AND PROTECTION AGAINST VISCERAL LEISHMANIASIS

Jacqueline Araújo Fiuza¹, Sreenivas Gannavaram², Soraya Torres Gaze Jangola¹, Érica Alessandra Alves Rocha¹, Leticia Gambogi de Ornellas¹, Carlos Eduardo Calzavara-Silva¹, Andrea Teixeira de Carvalho³, Hira Nakhasi², Rodrigo Correa-Oliveira¹

¹Group of Cellular and Molecular Immunology - René Rachou Institute/FIOCRUZ, Brazil, 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, ³Group of Research of Biomarkers - René Rachou Institute/FIOCRUZ, Belo Horizonte, Brazil

(ACMCIP Abstract)

Scientific Session 85

Pneumonia, Respiratory Infections and Tuberculosis

Convention Center - Room 343/344 (Level 300)

Tuesday, November 7, 10:15 a.m. - Noon

CHAIR

Natasha Hochberg
Boston University, Boston, MA, United States

Grant Mackenzie
Medical Research Council Unit, The Gambia, Banjul, Gambia

10:15 a.m.

775

RESPIRATORY VIRUS ASSOCIATED WITH WHEEZING IN EARLY LIFE: A BIRTH COHORT STUDY IN A LOW-INCOME URBAN COMMUNITY IN DHAKA, BANGLADESH

Md. Zakiul Hassan¹, Fahmida Chowdhury¹, Katharine Sturm-Ramirez², Kamal Hossain¹, Mejbah Uddin Bhuiyan³, Mohammed Ziaur Rahman¹, Rashidul Haque¹, Masud Alam¹, Stacey L. Burgess⁴, William A. Petri⁴, A. Danielle Iuliano², Emily S. Gurley¹

¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³The University of Western Australia, Perth, Australia, ⁴University of Virginia, Charlottesville, VA, United States

10:30 a.m.

776

SPATIOTEMPORAL DYNAMICS OF COMMON RESPIRATORY VIRUSES CAUSING HOSPITALIZATIONS FOR ACUTE RESPIRATORY INFECTIONS AND PNEUMONIA IN CHILDREN IN NHA TRANG, VIETNAM

Benjamin Althouse¹, Stefan Flasche², Le Nhat Minh³, Vu Dinh Thiem³, Masahiro Hashizume³, Koya Ariyoshi³, Dang Duc Anh³, Gail L. Rogers⁴, Keith P. Klugman⁴, Hao Hu¹, Lay-Myint Yoshida³

¹Institute for Disease Modeling, Bellevue, WA, United States, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³National Institute of Hygiene and Epidemiology, Hanoi, Vietnam, ⁴Bill & Melinda Gates Foundation, Seattle, WA, United States

10:45 a.m.

777

VIRAL DETECTION IN SEVERELY MALNOURISHED UNDER-FIVE CHILDREN WITH PNEUMONIA AND ASSOCIATED OUTCOME IN AN URBAN HOSPITAL, BANGLADESH

Fahmida Chowdhury¹, Asm Sayeem Shahid¹, Mustafizur Rahman¹, Pk Bardhan¹, Lubaba Shahrin¹, Katharine Sturm-Ramirez², Mohammad Jobayer Chisti¹

¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

11 a.m.

778

PNEUMONIA ETIOLOGY INVESTIGATING LUNG ASPIRATE SAMPLES USING MULTI-PLEX PCR

Grant Mackenzie¹, Eunice Machuka¹, Philip Hill², Brian Greenwood³

¹Medical Research Council Unit, The Gambia, Fajara, Gambia, ²University of Otago, Dunedin, New Zealand, ³London School of Hygiene & Tropical Medicine, London, United Kingdom

11:15 a.m.

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QUANTIFYING THE BURDEN OF LOWER RESPIRATORY INFECTIONS: RESULTS FROM THE GLOBAL BURDEN OF DISEASE STUDY 2016

Chris Troeger, Ibrahim Khalil, Puja Rao, Scott Swartz, Shijun Cao, Simon Hay, Robert Reiner

University of Washington, Seattle, WA, United States

11:30 a.m.

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HANDHELD POINT-OF-CARE LACTATE MEASUREMENT PREDICTS MORTALITY IN UGANDAN CHILDREN HOSPITALIZED WITH PNEUMONIA

Cary Ma¹, Austin Ericson¹, Sophie Namasopo², Robert Opoka³, Andrea Conroy⁴, Michael Hawkes¹

¹University of Alberta, Edmonton, AB, Canada, ²Jinja Regional Referral Hospital, Jinja, Uganda, ³Makerere University, Kampala, Uganda, ⁴Indiana University, Kampala, Uganda

11:45 a.m.

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CHEST ULTRASOUND VERSUS X-RAY FOR PULMONARY TUBERCULOSIS IN SOUTH AFRICAN CHILDREN

Charlotte C. Heuvelings¹, Sabine Bélard¹, Savvas Andronikou², Halvani Moodley³, Norme Jamieson-Luff⁴, Martin P. Grobusch¹, Heather J. Zar⁴

¹Academic Medical Center/University of Amsterdam, Amsterdam, Netherlands, ²Bristol Royal Hospital for Children and University of Bristol, Bristol, United Kingdom, ³University of Witwatersrand, Johannesburg, South Africa, ⁴Red Cross War Memorial Children's Hospital, Cape Town, South Africa

Tuesday
November 7

Exhibit Hall Open and Light Lunch

Convention Center - Swing Hall (Level 100)
Tuesday, November 7, Noon - 1:45 p.m.

Poster Session 86

Poster Session B: Presentations and Light Lunch

Convention Center - Hall F and G (Level 100)
Tuesday, November 7, Noon - 1:45 p.m.

Poster Session B Directory

Flaviviridae – Dengue: #782 – 810
Flaviviridae – Other: #811 – 829
Viruses – Other: #83 – 841
Ectoparasite-Borne Disease – Babesiosis and Lyme Disease:
#842 – 844
Ectoparasite-Borne Disease – Other: #845 - 846
Mosquitoes – Biochemistry and Molecular Biology:
#847 – 856
Mosquitoes – Insecticide Resistance and Control: #857 - 868
Mosquitoes – Vector Biology – Epidemiology: #869 - 883
Global Health: #884 - 923
Malaria – Biology and Pathogenesis: #924 - 934
Malaria – Chemotherapy and Drug Resistance: #935 - 956
Malaria – Diagnosis: #957 - 974
Malaria – Drug Development – Preclinical Studies: #975 - 988
Malaria – Elimination: #989 - 1005
Malaria – Epidemiology: #1006 - 1033
Malaria – Genetics/Genomics: #1034 - 1049
Malaria – Immunology: #1050 - 1062
Malaria – Modeling: #1063 - 1072
Malaria – Other: #1073 - 1097
Malaria – Vaccines: #1098 - 1113
Malaria/Mosquitoes – Field Prevention: #1114 - 1129
Bacteriology – Enteric Infections: #1130 - 1142
Bacteriology – Other Bacterial Infections: #1143- 1159
Clinical Tropical Medicine: #1160 - 1183
Helminths – Nematodes – Filariasis (Epidemiology):
#1184 - 1195
Helminths – Nematodes – Intestinal Nematodes:
#1196 - 1207
HIV and Tropical Co-Infection: #1208 - 1222
Kinetoplastida – Diagnosis and Treatment
(Including *Leishmania* and Trypanosomes): #1223 - 1238
Pneumonia, Respiratory Infections and Tuberculosis:
#1239 - 1251
Protozoa – Other Protozoa: #1252 - 1261
Trematodes – Schistosomiasis – Epidemiology, Diagnosis
and Treatment: #1262 - 1280
Water, Sanitation, Hygiene and Environmental Health:
#1281 - 1293

Flaviviridae – Dengue

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DENGUE VIRUS IGG ANTIBODIES AND ITS ASSOCIATION WITH CLIMATE VARIABLES. A COUNTRY-BASED STUDY (MÉXICO)

Mario Rojas-Rusell¹, Irma Y Amaya Larios², Elsa Sarti³, José Ramos Castañeda⁴, Laura Tirado-Gomez¹, Esteban Puentes Rosas³, Lilibeth Castro-Porras¹, Victoria Castro-Borbonio¹, Gustavo Olai⁵

¹Universidad Nacional Autónoma de México, Ciudad de México, Mexico, ²Instituto Nacional de Salud Pública, Cuernavaca, Mexico, Mexico, ³Sanofi Pasteur, Ciudad de México, Mexico, ⁴Instituto Nacional de Salud Pública, Cuernavaca, México, Mexico, ⁵Universidad Nacional Autónoma de México, Ciudad de México, Mexico

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TRENDS IN DENGUE AMONG UNITED STATES TRAVELERS, 2010-2016

Aidsa Rivera, Steve Waterman, Tyler Sharp

Centers for Disease Control and Prevention Dengue Branch, San Juan, Puerto Rico

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ASSOCIATED FACTORS TO DENGUE INFECTION IN SUBJECTS FOLLOWED UP DURING 2.5 YEARS FROM AN ENDEMIC MEXICAN AREA

Ruth A. Martínez-Vega¹, Irma Yvonne Amaya-Larios², Fredi A. Díaz-Quijano³, José Ramos-Castañeda²

¹Universidad de Santander, Bucaramanga, Colombia, ²Instituto Nacional de Salud Pública, Cuernavaca, Mexico, ³OLFIS, Colombia, Colombia

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DENGUE IN PREGNANT WOMEN: CHARACTERIZATION OF CASES IN BRAZIL, 2007-2015

Laura B. do Nascimento¹, Cláudio M. Siqueira¹, Giovanini E. Coelho², João B. Siqueira, Jr.¹

¹Federal University of Goiás, Goiânia, Brazil, ²Ministry of Health– Brazil, Brasília, Brazil

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EVALUATION OF DENGUE ANTIBODIES IN SERONEGATIVE SUBJECTS FROM A PHASE III EFFICACY TRIAL DEMONSTRATES A POSITIVE CORRELATION IN GENERATION OF SEROTYPE-SPECIFIC AB WITH INCREASING AGE FOLLOWING VACCINATION

Anthony Byers¹, Alina Munteanu¹, Robert Small¹, Lilibeth Lanza¹, Del Leistritz-Edwards¹, Michael Peredelchuk¹, Matthew Bonaparte², Aravinda de Silva³, Bruno Guy⁴, Janice Moser¹

¹Sanofi Pasteur, Orlando, FL, United States, ²Sanofi Pasteur, Swiftwater, PA, United States, ³University of North Carolina, Chapel Hill, NC, United States, ⁴Sanofi Pasteur, Marcy l'Etoile, France

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EVALUATION OF THE EFFECT OF PRE-EXISTING IMMUNITY AGAINST DENGUE ON NEUTRALIZING ANTIBODY RESPONSE INDUCED BY A LIVE ATTENUATED TETRAVALENT DENGUE VACCINE CANDIDATE, KD-382, IN CYNOMOLGUS MONKEYS

Shota Takagi¹, Masaya Yoshimura¹, Kazuhisa Kameyama¹, Yasuhiko Shinmura¹, Kengo Sonoda¹, Yoichiro Kino¹, Sutee Yoksan², Takashi Fujii¹

¹The Chemo-Sero-Therapeutic Research Institute (KAKETSUKEN), Kumamoto-shi, Kumamoto, Japan, ²Center for Vaccine Development, Institute of Molecular Biosciences, Mahidol University, Salaya, Nakhon Pathom, Thailand

SINGLE ADMINISTRATION OF LIVE-ATTENUATED TETRAVALENT DENGUE VACCINE CANDIDATE, KD-382, INDUCED LONG-LASTING (>2 YEARS) NEUTRALIZING ANTIBODY AGAINST ALL FOUR SEROTYPES IN CYNOMOLGUS MONKEYS

Yasuhiko Shinmura¹, Shota Takagi¹, Masaya Yoshimura¹, Kazuhisa Kameyama¹, Kengo Sonoda¹, Yoichiro Kino¹, Sutee Yoksan², Takashi Fujii¹

¹The Chemo-Sero-Therapeutic Research Institute (KAKETSUKEN), Kumamoto-shi, Kumamoto, Japan, ²Center for Vaccine Development, Institute of Molecular Biosciences, Mahidol University, Salaya, Nakhon Pathom, Thailand

EFFECT OF EXPOSURE HISTORY ON DENGUE INFECTION AND DISEASE: A STATISTICAL APPROACH AND ITS APPLICATION TO THE DENGUE COHORT IN NICARAGUA

Tim K. Tsang¹, Ira Longini¹, M. Elizabeth Halloran², Yang Yang¹

¹University of Florida, Gainesville, FL, United States, ²University of Washington, Seattle, WA, United States

GEOSPATIAL ANALYSIS OF DENGUE EMERGENCE IN RURAL AREAS IN THE SOUTHERN PROVINCE OF SRI LANKA: 2012-2013

Charmaine P. Mutucumarana¹, Champica K. Bodinayake², Ajith Nagahawatte², Vasantha Devasiri², Ruvini Kurukulasooriya², Thamali Anuradha², Aruna Dharshan De Silva³, Truls Østbye¹, Christopher W. Woods¹, Megan E. Reller¹, L. Gayani Tillekeratne¹, Paul M. Lantos¹

¹Duke University, Durham, NC, United States, ²Faculty of Medicine, University of Ruhuna, Galle, Sri Lanka, ³Genetech Research Institute, Colombo, Sri Lanka

SPREAD OF DENGUE 1 AND 2 IN MACHALA, ECUADOR: EVIDENCE OF A DYNAMIC EPIDEMIC GENETICALLY RELATED TO THOSE OF SURROUNDING COUNTRIES OF COLOMBIA, VENEZUELA AND PERU

Irina Maljkovic Berry¹, Anna M. Stewart-Ibarra², Wiriya Rutvisuttinunt¹, Efraín Beltrán-Ayala³, Washington B. Cárdenas⁴, Cinthya Cueva², Mark Polhemus², Sadie J. Ryan⁵, Timothy P. Endy², Richard G. Jarman¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²SUNY Upstate Medical University, Syracuse, NY, United States, ³Universidad Técnica de Machala, Machala, Ecuador, ⁴Escuela Superior Politécnica del Litoral (ESPOL), Guayaquil, Ecuador, ⁵University of Florida, Gainesville, FL, United States

THE GLOBAL CD4 T CELL RESPONSE AGAINST DENGUE VIRUS

Alba Grifoni¹, Benjamin Lopez¹, Michael A. Angelo¹, John Sidney¹, Bjoern Peters¹, Cristhiam Cerpas², Angel Balmaseda², Josefina Coloma³, Eva Harris³, Alessandro Sette¹, Daniela Weiskopf¹

¹La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States, ²National Virology Laboratory, National Center for Diagnosis and Reference, Ministry of Health, Managua, Nicaragua, ³School of Public Health, University of California Berkeley, Berkeley, CA, United States

NEW BIOMARKERS OF LIVER INVOLVEMENT BY DENGUE INFECTION IN ADULT VIETNAMESE PATIENTS

Nguyen Thi Cam Huong¹, Nguyen Phuong Hai², Nguyen Van Vinh Chau³, Pham Thi Le Hoa⁴, Mohamed Gomaa Kamel⁵, Abdelrahman Tarek Mohammed⁶, Kenji Hirayama⁷, Nguyen Tien Huy⁸

¹University of Medicine and Pharmacy of Ho Chi Minh city, Ho Chi Minh City, Vietnam, ²Pham Ngoc Thach University of Medicine, Ho Chi Minh City, Vietnam, ³Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ⁴University of Medicine and Pharmacy of Ho Chi Minh City, Ho Chi Minh City, Vietnam, ⁵Faculty of Medicine, Minia University, Minia, Egypt, ⁶Faculty of Medicine, Al-Azhar University, Cairo, Egypt, ⁷Department of Immunogenetics, Institute

of Tropical Medicine (NEKKEN), Leading Graduate School Program, and Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, ⁸Department of Clinical Product Development, Institute of Tropical Medicine (NEKKEN), Leading Graduate School Program, and Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan

BRIDGING EFFICACY OF THE CYD-TDV TETRAVALENT DENGUE VACCINE FROM CHILDREN/ADOLESCENTS TO ADULTS IN HIGH ENDEMIC COUNTRIES BASED ON NEUTRALIZING ANTIBODY RESPONSE

Peter B. Gilbert¹, Ying Huang¹, Michal Juraska¹, Zoe Moodie¹, Youyi Fong¹, Alexander Luedtke¹, Yingying Zhuang², Jason Shao², Lindsay N. Carpp¹, Nicholas Jackson³, Laurent Chambonneau³, Alain Bouckennooghe⁴, Betzana Zambrano⁵, Carina Frago⁴, Sophie Pallardy³, Fernando Noriega⁶

¹Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ²University of Washington, Seattle, WA, United States, ³Sanofi Pasteur, Marcy-L'Etoile, France, ⁴Sanofi Pasteur, Singapore, Singapore, ⁵Sanofi Pasteur, Montevideo, Uruguay, ⁶Sanofi Pasteur, Swiftwater, PA, United States

ZIKA AND DENGUE VIRUS-SPECIFIC AND CROSS-REACTIVE MEMORY B CELL RESPONSES

Paulina Andrade¹, Josefina Coloma¹, Daniela Michlmayr¹, Angel Balmaseda², Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

PHASE-III DENGUE VACCINE TRIAL SIMULATIONS QUANTIFY SENSITIVITIES OF VACCINE EFFICACY ESTIMATES TO UNMEASURED HETEROGENEITIES

Guido España¹, Cosmina Hoge², Adrienne Guignard³, Quirine ten Bosch⁴, Amy Morrison⁵, David Smith⁶, Thomas Scott⁶, Alexander Schmidt², Alex Perkins¹

¹University of Notre Dame, Mishawaka, IN, United States, ²GlaxoSmithKline, King of Prussia, PA, United States, ³GlaxoSmithKline, Wavre, Belgium, ⁴Institute Pasteur, Paris, France, ⁵Department of Entomology and Nematology, University of California, Davis, CA, United States, ⁶Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA, United States

DISSECTING THE QUALITY OF NEUTRALIZING ANTIBODY RESPONSES INDUCED BY THE NIH LIVE ATTENUATED TETRAVALENT DENGUE VACCINE TV003

Matthew J. Delacruz¹, Usha K. Nivarthi¹, Bhumi Patel¹, Jessica A. Swanstrom¹, Anna P. Durbin², Stephen S. Whitehead³, Ralph S. Baric¹, Aravinda M. de Silva¹

¹Department of Microbiology and Immunology, University of North Carolina School of Medicine, Chapel Hill, NC, United States, ²Center for Immunization Research, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

A SINGLE GLYCOSYLATED AMINO ACID IN DENGUE VIRUS NS1 PROTEIN IS REQUIRED FOR TRIGGERING HUMAN ENDOTHELIAL CELL PERMEABILITY

Chunling Wang, Edwina B. Tran, Henry Puerta-Guardo, Carmel Malvar, Dustin Glasner, Eva Harris

Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States

BOOSTING EXPLAINS PATTERNS IN RATIOS OF INAPPARENT AND SYMPTOMATIC DENGUE VIRUS INFECTIONS

Rotem Ben-Shachar¹, Leah Katzelnick¹, Angel Balmaseda², Michael Boots³, Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ³Department of Integrative Biology, University of California Berkeley, Berkeley, CA, United States

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CHANGES IN THE FORCE OF INFECTION OF DENGUE FROM 1994 TO 2015 IN A PEDIATRIC DENGUE COHORT STUDY IN NICARAGUA

Leah Katzelnick¹, Rotem Ben-Shachar¹, Aubree Gordon², Angel Balmaseda³, Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ³Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

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THE LIVE ATTENUATED DENGUE VACCINE TV005 IS WELL TOLERATED AND HIGHLY IMMUNOGENIC IN FLAVIVIRUS NAIVE SUBJECTS 50 - 70 YEARS OF AGE

Anna P. Durbin¹, Eve Ostrowski¹, Cecilia Tibery¹, Paltama Grier¹, Denise Adams¹, Noreen A. Hynes², Autumn Hentrich¹, Helen Perry¹, Beulah Sabundayo¹, Yolanda Eby¹, Helen He¹, Stephen S. Whitehead³

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins School of Medicine, Baltimore, MD, United States, ³LID/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States

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FLAVIDOT: AN AUTOMATED VIRUS PLAQUE COUNTER FOR MEASUREMENT OF THE SEROLOGICAL NEUTRALIZATION RESPONSE AGAINST ZIKA AND DENGUE VIRUSES

Christian Chávez¹, Leah Katzelnick¹, Ana Coello Escoto¹, Benjamin McElvany², Wensheng Luo³, Henrik Salje³, Isabel Rodriguez-Barraquer³, Richard Jarman⁴, Sean Diehl², Anna Durbin³, Derek Smith⁵, Derek Cummings¹, Stephen Whitehead⁶

¹University of Florida, Gainesville, FL, United States, ²University of Vermont, Burlington, VT, United States, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁴Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁵University of Cambridge, Cambridge, United Kingdom, ⁶National Institutes of Health, Bethesda, MD, United States

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DENGUE SEROTYPE AND DISEASE SEVERITY TRENDS AMONG INFANTS AND YOUNG CHILDREN IN INDIA, 2012-2015: IMPLICATIONS FOR DENGUE VACCINE STUDIES

Anita Shet¹, Vivek Rosario², Syed F. Ahamed², Shalini Kotabagi², Kaustav Nayak³, Murali K. Kaja³, Anmol Chandele³

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²St. Johns Research Institute, Bangalore, India, ³International Center for Genetic Engineer and Biotechnology, New Delhi, India

BURDEN OF DENGUE IN OUAGADOUGOU, BURKINA FASO

Jacqueline K. Lim¹, Mabel Carabali¹, Ahmed Barro², Kang Sung Lee¹, Desire Dahourou³, Suk Namkung¹, Emmanuel Bonnet⁴, Jean E. Nikiema³, Losseni Kaba⁵, Paul-André Somé², Valéry Ridde⁶, Seydou Yaro³, In-Kyu Yoon¹

¹International Vaccine Institute, Seoul, Republic of Korea, ²AGIR, Ouagadougou, Burkina Faso, ³Centre Muraz, Bobo-Dioulasso, Burkina Faso, ⁴Institut de Recherche pour le Développement, Paris, France, ⁵Centre National de Transfusion Sanguine, Ouagadougou, Burkina Faso, ⁶Montreal School of Public Health, Montreal, QC, Canada

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PERSISTENCE OF A NOVEL DENGUE VIRUS 2 COSMOPOLITAN GENOTYPE LINEAGE THAT EMERGED IN INDONESIA IN 2011, IDENTIFIED IN THE WESTERN AUSTRALIAN TRAVELER COHORT

Timo Ernst¹, Suzi McCarthy², Edward C. Holmes³, David W. Smith², Allison Imrie¹

¹University of Western Australia, Perth, Australia, ²PathWest, Perth, Australia, ³The University of Sydney, Sydney, Australia

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DEVELOPMENT OF NOVEL SEROLOGICAL ASSAYS TO DISCRIMINATE BETWEEN DENGUE VIRUS AND ZIKA VIRUS ANTIBODY RESPONSES

Valérie Martine Lecouturier, Nathalie Mantel, Claire Fourlinnie, Elisabeth Marion, Florence Boudet, Matthew Bonaparte, Bruno Guy Sanofi Pasteur, Marcy l'étoile, France

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DENGUE PREVALENCE IN A MILITARY VS CIVILIAN POPULATION

John Mark Velasco¹, Ma. Theresa Valderama¹, Ma. Nila Lopez², Domingo Jr Chua³, Ma. Theresa Alera¹, Paula Corazon Diones¹, Kathyleen Nogrado¹, Maribel Develos³, Elizabeth Sanchez², Damon Ellison¹, Alden Weg¹, Louis Macareo¹
¹U.S. Army Medical Directorate-Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²AFPMSS, Manila, Philippines, ³VLGH, AFPMC, Manila, Philippines

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IMMUNOGENICITY AND SAFETY OF TAKEDA'S DENGUE VACCINE CANDIDATE IN CHILDREN AND ADOLESCENTS AGED 2-17 YEARS FROM PANAMA, THE DOMINICAN REPUBLIC AND THE PHILIPPINES: 18-MONTH RESULTS FROM A PHASE 2 RANDOMIZED PLACEBO-CONTROLLED TRIAL

Vianney Tricou¹, Xavier Sáez-Llorens², Delia Yu³, Luis Rivera⁴, Astrid Borkowski¹, Derek Wallace¹

¹Takeda Pharmaceuticals International AG, Zurich, Switzerland, ²Hospital del Niño Dr. José Renán Esquivel, Panama City, Panama, ³De La Salle Health Sciences Institute, Dasmariñas, Philippines, ⁴Hospital Maternidad Nuestra Señora de La Altagracia, Santo Domingo, Dominican Republic

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CIRCULATING DENGUE VIRUS AND CLINICAL CHARACTERISTICS IN PATIENTS WITH ACUTE FEBRILE ILLNESS FROM HUANUCO, PERU

Juana Mercedes del Valle-Mendoza¹, Angela Cornejo Tapia¹, Wilmer Silva-Caso¹, Miguel Angel Aguilar-Luis¹, Carlos Palomares-Reyes¹, Fernando Vásquez-Achaya¹, Pablo Weigl¹, Joselyn Sacramento-Meléndez², Beatriz Espejo-Evaristo²

¹Universidad Peruana de Ciencias Aplicadas, Lima, Peru, ²DIRESA Huanuco, Huanuco, Peru

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HETEROGENEITY IN EVOLUTIONARY RATES MAY REFLECT ECOLOGICAL AND BIOLOGICAL DIFFERENCES BETWEEN DENGUE GENOTYPES

Simon Pollett¹, Irina Maljkovic-Berry¹, Melanie Melendrez¹, Sebastian Duchene², Richard Jarman¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²University of Melbourne, Melbourne, Australia

Flaviviridae – Other

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CONGENITAL OCULAR PATHOLOGY IN RHESUS MACAQUES INFECTED WITH ZIKA VIRUS IN UTERO

Dawn M. Dudley, Sydney M. Nguyen, Kathleen M. Antony, Emma L. Mohr,

David H. O'Connor, Thaddeus G. Golos, On Behalf of Project ZEST

University of Wisconsin Madison, Madison, WI, United States

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DECREASED TRANSMISSION OF ZIKA VIRUS IN AEGYPTI MOSQUITOES CO-INOCULATED WITH AN INSECT-SPECIFIC FLAVIVIRUS

Hannah E. Romo, Joan L. Kenney, Aaron C. Brault

Centers for Disease Control and Prevention, Fort Collins, CO, United States

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ZIKA VIRUS INFECTION AMONG A POPULATION-BASED AMONG A POPULATION BASED COHORT OF PREGNANT WOMEN IN PANAMA CITY, PANAMA, 2016-2017

Juan M. Pascale¹, Arlene Calvo², Rosalba Gonzalez¹, Morgan Hess-Holtz², Susan Hills³, Susan Kaydos-Daniels⁴, Eduardo Azziz-Baumgartner⁵, Nestor Sosa¹

¹Gorgas Memorial Institute for Health Studies, Panama, Panama, ²University of South Florida, USF Health Panama Program, City of Knowledge, Panama, Panama, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States, ⁴Centers for Disease Control and Prevention, Guatemala City, Guatemala, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States

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PERFORMANCE OF THE CDC TRIOPLEX REAL TIME RT-PCR DURING THE 2016 ZIKA EPIDEMIC IN PUERTO RICO

Gilberto A. Santiago, Jesus Vazquez, Jorge L. Muñoz-Jordan

Centers for Disease Control and Prevention, San Juan, PR, United States

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EXPERIMENTAL INFECTION OF JAMAICAN FRUIT BATS (ARTIBEUS JAMAICENSIS) WITH ZIKA VIRUS

Ashley Malmlov, Kaitlyn Miedema, Tawfik Aboellail, Corey Rosenberg, Miles Eckley, Nunya Chotiwan, Rebekah Gullberg, Rushika Perera, Tony Schountz

Colorado State University, Fort Collins, CO, United States

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ANALYSIS OF THE EFFECT OF ZIKA VIRUS INFECTION DURING PREGNANCY ON PLACENTAL DEVELOPMENT AND BIRTH OUTCOMES

Anna Gajewski¹, Raquel Burger-Calderon², Liliam Llufrío¹, Matthew Pettit³, Elsa Videá¹, Guillermina Kuan⁴, Douglas Elizondo¹, Juan Carlos Mercado⁵, José Victor Zambrana¹, Anna Urbina¹, Jesslie Barrera¹, Carlos Saenz⁶, Lenore Pereira³, Nestor Pavon⁷, Angel Balmaseda⁵, Eva Harris²

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de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua,

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INFLAMMATORY MONOCYTES ARE THE MAIN TARGET OF ZIKA VIRUS INFECTION IN PERIPHERAL BLOOD MONONUCLEAR CELLS FROM PEDIATRIC PATIENTS IN NICARAGUA

Daniela Michlmayr¹, Paulina Andrade¹, Karla González², Chunling Wang¹, Angel Balmaseda², Eva Harris¹

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LONGITUDINAL ANALYSIS OF CROSS-NEUTRALIZATION BETWEEN DENGUE AND ZIKA VIRUSES IN TWO PEDIATRIC STUDIES IN NICARAGUA

Magelda Montoya¹, Henry Puerta-Guardo¹, Leah Katzelnick¹, Samuel Schildhauer¹, Angel Balmaseda², Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, CA, United States

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A NOVEL ANTIBODY-BASED ASSAY DISCRIMINATES ZIKA VIRUS INFECTION FROM OTHER FLAVIVIRUSES

Angel Balmaseda¹, Karin Stettler², Raquel Medialdea Carrera³, Damaris Collado¹, Xia Jin², José Victor Zambrana¹, Stefano Jacconi², Saira Saborio¹, Elena Percivalle⁴, Ines Ushiro-Lumb⁵, Luisa Barzon⁶, Patricia Siqueira⁷, David W. Brown⁷, Fausto Baldanti⁴, Maria Zambon⁸, Ana Maria Bispo de Filippis⁷, Eva Harris⁹, Davide Corti²

¹Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ²Humabs BioMed SA, Bellinzona, Switzerland, ³National Institute for Health Research Health Protection Research Unit in Emerging and Zoonotic Infections, University of Liverpool, Liverpool, United Kingdom, ⁴Molecular Virology Unit, Microbiology and Virology Department, Fondazione Istituto di Ricovero e Cura a Carattere Scientifico, Policlinico San Matteo, Pavia, Italy, ⁵Transfusion Microbiology, National Health Service Blood and Transplant, London, United Kingdom, ⁶Department of Molecular Medicine, University of Padova, Padova, Italy, ⁷Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, ⁸Microbiology Services Colindale, Public Health England, London, United Kingdom, ⁹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States

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PASSIVE TRANSFER OF ZIKA VIRUS-LIKE-PARTICLE-INDUCED IMMUNE SERA TO AG129 MICE PROTECTS AGAINST LETHAL ZIKA VIRUS CHALLENGE

Jeffery Alexander¹, Diego Espinosa², Darly Manayani¹, Lo Vang¹, Peggy Farness¹, Tiffany Richard¹, Jayavani Aruri¹, Ben Guenther¹, Jenny Avanzini¹, Fermin Garduno¹, Jonathan Smith¹, Eva Harris², Jason Mendy¹

¹PaxVax, San Diego, CA, United States, ²Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States

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KNOWLEDGE, PERCEPTIONS AND SOCIOECONOMIC STATUS DRIVING DENGUE PREVENTION PRACTICES IN URBAN COASTAL ECUADOR

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AUSTRALIAN ARBOVIRUSES ASSOCIATED WITH UNDIAGNOSED UNDIFFERENTIATED FEBRILE ILLNESS

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POLICI: AN ONLINE TOOL FOR VISUALIZATION OF POPULATION-LEVEL YELLOW FEVER IMMUNIZATION COVERAGE IN AFRICA

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A COHORT STUDY TO DETERMINE THE INCIDENCE OF ZIKA VIRUS INFECTION AMONG NEWBORNS, SANTOS, BRAZIL, 2016-2017

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PRIOR INFECTION WITH DENGUE VIRUS SEROTYPE 3 DOES NOT ENHANCE SUBSEQUENT ZIKA VIRUS INFECTION IN RHESUS MACAQUES

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DECIPHERING DURABLE NEUTRALIZING ANTIBODY RESPONSES TO ZIKA VIRUS

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ZIKA VIRUS INFECTION OF RHESUS MACAQUES VIA MOSQUITO BITE

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LOW PREVALENCE OF ANTIBODY PERSISTENCE 10 YEARS AFTER HEPATITIS E VIRUS INFECTION AMONG PREGNANT WOMEN IN NORTHERN BANGLADESH

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ARBOVIRUS SURVEILLANCE

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ASSOCIATION BETWEEN SECRETOR STATUS AND NOROVIRUS INFECTIONS IN A BIRTH COHORT IN SOUTH INDIA

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DETECTION OF HUMAN ANELLOVIRUSES (TORQUE TENO VIRUS, TORQUE TENO MIDI VIRUS, AND TORQUE TENO MINI VIRUS) FROM THE ACUTE RESPIRATORY INFECTION CONSORTIUM (ARIC) NATURAL HISTORY STUDY

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EFFECT OF AGE AT VACCINATION ON ROTAVIRUS VACCINE EFFECTIVENESS IN BOLIVIAN INFANTS

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ROLE OF MAMMALIAN IMMUNE RESPONSES IN VECTOR-ENHANCED ORBIVIRAL TRANSMISSION

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OROPUCHE VIRUS IDENTIFICATION AS AN EMERGING ETIOLOGICAL AGENT RESPONSIBLE FOR ACUTE FEBRILE DISEASE IN A EASTERN MIDDLE REGION OF THE PERUVIAN JUNGLE

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ANALYSIS OF THE *BABESIA MICROTI* PROTEOME IN INFECTED RED BLOOD CELLS BY A COMBINATION OF NANOTECHNOLOGY AND MASS SPECTROMETRY

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SEQUENCE CONSERVATION IN THE IMMUNODOMINANT *BABESIA MICROTI* ANTIGENS

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IDENTIFICATION OF PROTEIN PROFILES OF *BARTONELLA BACILLIFORMIS* STRAINS FROM ENDEMIC DEPARTMENTS OF PERU

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THE DETECTION OF SPOTTED FEVER GROUP *RICKETTSIA* DNA IN TICKS AND HUMAN SAMPLES FROM PASTORAL COMMUNITIES IN KENYA

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Abhishek Mewara, Megha Sharma, Taruna Kaura, Kamran Zaman, Rakesh Yadav, Amit Sharma, Rakesh Sehgal
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WANGA IN CELL CULTURE: TOOLS FOR STUDYING ASSOCIATIONS BETWEEN *ANOPHELES* AND *WOLBACHIA*

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ELUCIDATING THE ROLE OF LIPOLYTIC PATHWAY IN MOSQUITO REPRODUCTION AND *P. FALCIPARUM* TRANSMISSION

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A FEMALE REPRODUCTIVE PROTEIN AFFECTS THE INTERACTION BETWEEN *ANOPHELES GAMBIAE* MOSQUITOES AND *PLASMODIUM FALCIPARUM* PARASITES

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DISCOVERY OF A NOVEL MOSQUITO JUVENILE HORMONE BINDING PROTEIN ISOLATED FROM THE YELLOW FEVER MOSQUITO, *Aedes aegypti*

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VECTORBASE: DATABASE FOR POPULATION BIOLOGY AND OMICS DATA QUERY, BROWSE AND ANALYSES

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CHOLESTEROL-MODULATED IMMUNE SIGNALLING MEDIATES WOLBACHIA-INDUCED INHIBITION OF O'NYONG NYONG VIRUS IN *ANOPHELES* MOSQUITOES

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NATIONWIDE INSECTICIDE RESISTANCE STATUS AND BITING BEHAVIOR OF MALARIA VECTOR SPECIES IN THE DEMOCRATIC REPUBLIC OF CONGO (DRC) 2013-2016

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INSECTICIDE RESISTANCE STATUS, INTENSITY AND MECHANISMS OF *AN. GAMBIAE* S.L. IN SOUTHERN AND CENTRAL MALI BETWEEN 2014 AND 2016

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MECHANISMS OF PYRETHROID RESISTANCE IN *AEDES AEGYPTI* FROM DENGUE ENDEMIC AREAS OF SAUDI ARABIA: A PRIMARY ROLE FOR TARGET SITE MUTATIONS

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COMMERCIAL AEROSOLIZED INSECTICIDES CAN SERVE AS A STRONG SELECTION FORCE FOR PYRETHROID-RESISTANCE IN *AEDES AEGYPTI*

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CONTRIBUTION OF TWO SYMPATRIC SIBLING SPECIES, *ANOPHELES COLUZZII* AND *ANOPHELES GAMBIAE*, TO MALARIA TRANSMISSION IN NORTH BENIN

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TRANSCRIPTOME ANALYSIS OF GENES ASSOCIATED WITH PYRETHROID RESISTANCE IN SOUTH AND CENTRAL AMERICAN *ANOPHELES ALBIMANUS*

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COI BARCODING OF *ANOPHELES COLUZZII* AND INSECTICIDE RESISTANCE MONITORING IN DEMOCRATIC REPUBLIC OF SAO TOME AND PRINCIPE

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MALARIA VECTORS IN ASIA: A COMPOSITE SET OF APPROACHES FOR IMPROVING THEIR CONTROL

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CROSS-RESISTANCE INVOLVING THREE CLASSES OF INSECTICIDES AND TWO MAJOR MALARIA VECTOR SPECIES IMPACTING MALARIA CONTROL IN NCHELENGE, A HIGH MALARIA TRANSMISSION REGION IN NORTHERN ZAMBIA

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868**PYRETHROID RESISTANCE INTENSITY AND MECHANISMS OF INSECTICIDE RESISTANCE IN THE MALARIA VECTOR *ANOPHELES GAMBIAE* S.L. IN SELECTED DISTRICTS IN NORTHERN GHANA**

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870**DECIPHERING THE IMPACT OF *PLASMODIUM* AND *TRYPANOSOMA* COINFECTIONS ON THE VECTORIAL CAPACITY OF *ANOPHELES* MOSQUITOES**

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KNOWLEDGE IS POWER, BY INVESTING IN TRAINING WE ARE SECURING A STRONG AND POWERFUL NATION AND DEVELOPING FUTURE LEADERS

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ALTERED GUT MICROBIOTA COMPOSITION IN PLASMODIUM FALCIPARUM PATIENTS IN UGANDA

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PYGM75, A PROTEIN IN OSMIOPHILIC BODIES, IS DISPENSABLE FOR EGRESS OF MALE GAMETOCYTES BUT IMPORTANT FOR EXFLAGELLATION OF MICROGAMETES

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DEVELOPMENT OF RELIABLE MOSQUITO INFECTIONS WITH NON-3D7 PLASMODIUM FALCIPARUM STRAINS FOR HETEROLOGOUS CONTROLLED HUMAN MALARIA INFECTION (CHMI)

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FUNCTIONAL CHARACTERIZATION OF A PUTATIVE SEX SPECIFIC BIOMARKER IN PLASMODIUM FALCIPARUM

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A MECHANISTIC APPROACH TO UNDERSTANDING THE EFFECTS OF HIV-RELATED INFLAMMATION ON PLASMODIUM FALCIPARUM GAMETOCYTE DEVELOPMENT

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(ACMCIP Abstract)

EXPLOITING MECHANISMS OF GLYCOLYTIC REGULATION IN MALARIA PARASITES

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(ACMCIP Abstract)

PROTEOMIC CHARACTERIZATION OF *PLASMODIUM BERGHEI* LIVER STAGE MEROZOITES

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EVALUATING NEW METHODS FOR *P. VIVAX* IN VITRO CULTURE FROM FROZEN SAMPLES

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(ACMCIP Abstract)

Malaria - Chemotherapy and Drug Resistance

EFFICACY OF ARTEMETHER LUMEFANTRINE AND DIHYDROARTEMISININ PIPERAQUIN FOR THE TREATMENT OF UNCOMPLICATED MALARIA IN KISUMU, WESTERN KENYA

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INTERMITTENT PREVENTIVE TREATMENT WITH DIHYDROARTEMISININ-PIPERAQUINE IN YOUNG UGANDAN CHILDREN IN THE SETTING OF INDOOR RESIDUAL SPRAYING OF INSECTICIDE

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ACTIVE MONITORING OF ARTEMISININ COMBINATIONS THERAPY ACT USE FOR TREATMENT OF UNCOMPLICATED MALARIA AMONG PREGNANT WOMEN IN SENEGAL

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IMPROVING HEALTH CARE WORKER PERFORMANCE IN ADHERENCE TO TESTING AND TEST RESULTS FOR MALARIA IN EIGHT SUB-SAHARAN AFRICAN COUNTRIES

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PREVALENCE OF *MDR1* AND *K13* POLYMORPHISMS IN *PLASMODIUM FALCIPARUM* AFTER A DECADE OF USING ARTEMISININ-BASED COMBINATION THERAPY IN MAINLAND TANZANIA

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COMPLEXITY OF INFECTION AND PARASITE RELATEDNESS OF *PLASMODIUM FALCIPARUM* PARASITE POPULATIONS IN PATIENTS ADMINISTERED ARTEMETHER-LUMEFANTRINE (AL) IN KENYA

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MOLECULAR CHARACTERIZATION OF IMPORTED MALARIA PARASITES DIAGNOSED IN THE UNITED STATES BETWEEN 2014 AND 2016

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PREVALENCE OF K13 MUTATION AND DAY-3 POSITIVE PARASITEMIA IN AN ARTEMISININ-RESISTANT MALARIA ENDEMIC AREA OF CAMBODIA: A CROSS-SECTIONAL STUDY

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DRUG COMBINATION THERAPY FOR ARTEMISININ RESISTANT *PLASMODIUM FALCIPARUM*

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ACT PARTNER DRUG EROSION: EVIDENCE OF PIPERAQUINE-RESISTANT *PLASMODIUM FALCIPARUM* IN CAMBODIA

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IMPROVING HEALTH CARE WORKER PERFORMANCE IN CLINICAL CASE MANAGEMENT OF MALARIA AND OTHER FEBRILE ILLNESSES IN SEVEN SUB-SAHARAN AFRICAN COUNTRIES

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PLASMODIUM FALCIPARUM IN AFRICA: CHANGES IN DRUG EFFICACY AND THE RATIONALE FOR EXTENDED ACT REGIMENS

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HEME ACTIVATION OF ARTEMISININ ANTIMALARIAL DRUGS

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HETEROLOGOUS EXPRESSION, PURIFICATION, AND FUNCTIONAL ANALYSIS OF *PLASMODIUM FALCIPARUM* PHOSPHATIDYLINOSITOL 3'-KINASE

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ASSESSMENT AND IMPACT OF THE NEW INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY WITH SULPHADOXINE-PYRIMETHAMINE (IPTP-SP) IMPLEMENTATION STRATEGY ON MATERNAL, FETUS AND NEONATAL OUTCOME IN GHANA

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NO EVIDENCE OF AMPLIFIED *P. FALCIPARUM* PLASMEPSIN II GENE COPY NUMBER IN AN AREA WITH ARTEMISININ-RESISTANT MALARIA ALONG THE CHINA-MYANMAR BORDER

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ARTESUNATE-AMODIAQUINE: EFFICACIOUS AFTER 10 YEARS OF USE AS TREATMENT FOR UNCOMPLICATED *P. FALCIPARUM* MALARIA IN ERITREA

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THE EFFICACY OF ARTEMISININ COMBINATION THERAPY IN KENYA; THE STATUS AT MSABWENI, NYANDO AND BUSIA MALARIA ENDEMIC STUDY SITES

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EXVIVO SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* TO DIHYDROARTEMISININ AND PIPERAQUINE BY NOVEL PHENOTYPIC ASSAYS (RSA AND PSA) IN BINH PHUOC PROVINCE, VIETNAM

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PREVALENCE OF CYP2D6 POLYMORPHISMS IN A CAMBODIAN POPULATION AND RELATIONSHIP TO *P. VIVAX* RECURRENCE RATE AND HEMOLYTIC TOXICITY

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A POINT-OF-CARE ASSAY TO DETECT ANTIMALARIAL DRUGS FROM FINGER STICK BLOOD SAMPLES

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ABSENCE OF ASSOCIATION BETWEEN EX VIVO SUSCEPTIBILITY TO PIPERAQUINE AND POLYMORPHISMS IN EXONUCLEASE GENE AND COPY NUMBERS IN PLASMEPSIN 2 GENE IN AFRICAN PLASMODIUM FALCIPARUM ISOLATES

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Malaria - Diagnosis

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EVALUATION OF NOVEL PET-PCR PRIMERS FOR THE DETECTION OF PLASMODIUM MALARIAE IN CLINICAL SPECIMENS MALARIAE IN CLINICAL SPECIMENS

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DOES THE EXPERIENCE OF MALARIA TESTING INCREASE TRUST IN THE TEST? EVIDENCE FROM WESTERN KENYA

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PREPARATION OF A UNIFORM MONOLAYER OF GIEMSA-STAINED RED BLOOD CELLS ON HYDROPHILIC-TREATED PLASTIC PLATES FOR MALARIA DIAGNOSIS

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COMPETENCE IN RDT PERFORMANCE 12 MONTHS POST TRAINING: EVALUATION OF MALARIA TESTING BY CHWS

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MALARIA DIAGNOSTIC TESTING ASSOCIATED WITH SIGNIFICANT INCREASES IN COST OF CARE FOR FAMILIES IN RURAL WESTERN KENYA

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ASSESSMENT OF RDT PERFORMANCE IN ENDEMIC AREA IN SAKARAHA, MADAGASCAR

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LESSONS LEARNED: MALARIA DIAGNOSTIC REFRESHER TRAINING IN AFRICA FRANCOPHONE COUNTRIES

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AN OFFLINE VIRTUAL MICROSCOPE-BASED MALARIA MICROSCOPY COURSE TO IMPROVE PERFORMANCE IN THE MICROSCOPIC DIAGNOSIS OF MALARIA

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EFFECTIVENESS OF URINE-BASED RDT AND BLOOD-BASED RDT IN MALARIA DIAGNOSIS

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CONTRIBUTION OF RAPID DIAGNOSIS TEST IN MALARIA CASE MANAGEMENT STRATEGY IN SENEGAL

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A NEW HIGH SENSITIVITY RAPID DIAGNOSTIC TEST FOR *PLASMODIUM FALCIPARUM* DETECTION IN AN ELIMINATION SETTING: INDIVIDUAL DIAGNOSIS OF INFECTION AND MEASUREMENT OF PREVALENCE

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MAXIMIZED DIAGNOSTIC SENSITIVITY REVEALS UNEXPECTED RESERVOIR OF MALARIA INFECTIONS

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ESTABLISHING NATIONAL MALARIA SLIDE BANK: IN ETHIOPIA

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ANTIBIOTIC PRESCRIPTION PRACTICE FOLLOWING INTRODUCTION OF THE MALARIA 'TEST AND TREAT' POLICY IN UGANDA

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ULTRASENSITIVE DETECTION OF HISTIDINE-RICH PROTEIN 2 (HRP2) AS A ROBUST METRIC IN ESTIMATING ACTIVE OR RECENT *PLASMODIUM FALCIPARUM* INFECTION IN HAITI

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IMPROVING QUALITY OF BLOOD SMEAR MALARIA MICROSCOPY THROUGH A DISTRICT-BASED EXTERNAL QUALITY ASSURANCE SCHEME IN UGANDA, 2014-2016

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CLINICAL PERFORMANCE OF A HIGH-SENSITIVITY HISTIDINE-RICH PROTEIN 2 (HRP2)-BASED ELISA FOR DETECTION OF *PLASMODIUM FALCIPARUM* MALARIA

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A RETROSPECTIVE CLINICAL RECORD REVIEW OF MALARIA DIAGNOSES IN HAITI: 2008-2016

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Malaria - Drug Development - Preclinical Studies

EXPLORING THE ANTIMALARIAL POTENTIAL OF WHOLE PLANT *CYMBOPOGON CITRATUS*

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PYRIDO[1,2-A]BENZIMIDAZOLES: A NOVEL NON-QUINOLINE β -HAEMATIN INHIBITING ANTIMALARIAL CHEMOTYPE

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BOOSTING IVERMECTIN FOR VECTOR CONTROL: CYTOCHROME-P-450/ABC-TRANSPORTER INHIBITION SYNERGIZES IVERMECTIN AND INCREASES THE MORTALITY OF *ANOPHELES GAMBIAE*

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ANTIMALARIAL THIOTRIAZOLES: DISCOVERY OF A NOVEL PRECLINICAL CANDIDATE WITH CLINICALLY VALIDATED MODE OF ACTION

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DISCOVERY OF NOVEL ANTI-MALARIAL(S) BY HIGH THROUGHPUT SCREENING AND COMBINATORIAL CHEMISTRY

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OPTIMIZATION OF POLYMERIC BLENDS-ARTESUNATE-AMODIAQUINE HCL MICROPARTICLES USING DESIGN EXPERT SOFTWARE

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EVALUATION OF THE ANTIOXIDANT POWER AND THE EFFECT OF POTENTIATION AND STUDY OF TOXICITY PARAMETERS OF 2 EXTRACTS OF PLANTS WITH STRONG ANTIMALARIAL ACTIVITY

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MECHANISTIC AND SAR EVALUATION OF HEMOZOIN-INHIBITING COMPOUNDS IDENTIFIED VIA HTS ACTIVE AGAINST *PLASMODIUM FALCIPARUM*

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IDENTIFICATION OF APPROVED DRUGS THAT HAVE ACTIVITY AGAINST *PLASMODIUM FALCIPARUM* USING *IN SILICO* AND *IN VITRO* APPROACHES

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HIGH THROUGHPUT DISCOVERY OF NEW DRUGS TARGETING MALARIA PARASITE TRANSMISSION - TOWARDS THE ALTRUISTIC ANTIMALARIAL

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TRANSLATIONAL PRECLINICAL PLATFORM FOR EVALUATION OF ANTIMALARIAL COMBINATION THERAPY

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MEPICIDES: POTENT INHIBITORS OF ISOPRENOID METABOLISM IN *PLASMODIUM FALCIPARUM*

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SCREENING THE PATHOGEN BOX FOR HITS AGAINST ARTEMISININ-RESISTANT *P. FALCIPARUM* MALARIA

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A PHASE IB STUDY TO INVESTIGATE THE ANTIMALARIAL ACTIVITY OF (+)-SJ000557733 (SJ733) IN INDUCED BLOOD STAGE *PLASMODIUM FALCIPARUM* MALARIA

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TARGETED-REACTIVE CASE DETECTION AT SLEEPING SITES TO INTERRUPT MALARIA TRANSMISSION IN VIETNAM II: REPORTED AND OBSERVED MALARIA PREVENTION, TREATMENT AND RISK BEHAVIORS

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IMPACT OF BIOLARVICIDES ON THE MALARIA MORBIDITY IN SCHOOLCHILDREN LIVING IN OUAGADOUGOU, BURKINA FASO

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CHALLENGES IN LLIN INTERVENTION AMONG MOBILE MIGRANT POPULATIONS ALONG THE SURINAME-FRENCH GUIANA BORDER

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QUALITATIVE FINDINGS FROM A CROSS-SECTIONAL MALARIA RISK FACTOR AND PARASITEMIA SURVEY, NORTHERN LAO PDR

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MALARIA ELIMINATION PLANNING TOOL: AN OPERATIONAL CAPACITY ASSESSMENT FOR MALARIA ELIMINATION EFFORTS IN ETHIOPIA

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DATA-DRIVEN APPROACHES FOR FINER TEMPORAL AND SPATIAL RESOLUTION COVERAGE AND PROGRESS ESTIMATES FOR INDOOR RESIDUAL SPRAYING (IRS) CAMPAIGNS IN CHOBE DISTRICT, BOTSWANA

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GENOMIC METHODS OF SURVEILLANCE REVEAL MARKED PATTERNS IN *PLASMODIUM FALCIPARUM* PARASITE POPULATIONS ACROSS THE TRANSMISSION GRADIENT IN SENEGAL

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THE LONG-TERM DURABILITY OF MASS DRUG ADMINISTRATION USING DIHYDROARTEMISININ-PIPERAQUINE AS PART OF A COMPREHENSIVE MALARIA ELIMINATION STRATEGY IN SOUTHERN PROVINCE ZAMBIA

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ASSESSING BIAS AND IMPACT ON DECISION-MAKING FOR MALARIA ELIMINATION WHEN RELYING ON RISK MAPS DERIVED USING CONVENIENCE BASED SAMPLING STRATEGIES IN HAITI

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THE IMPACT OF PRIMAQUINE (PQ) DEPLOYMENT AND INSECTICIDE TREATED UNIFORMS ON *P. VIVAX* INCIDENCE IN A PILOT MALARIA ELIMINATION STUDY IN CAMBODIA

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MOSQUITO DIRECT MEMBRANE FEEDING ASSAY: OVERCOME THE FIELD CONSTRAINTS AND ADAPT THE METHOD FOR THE EVALUATION OF MALARIA TRANSMISSION-BLOCKING INTERVENTIONS

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QUANTITATIVE POINT OF CARE G6PD TESTS FOR RADICAL CURE OF *VIVAX* MALARIA

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TARGETED-REACTIVE CASE DETECTION AT SLEEPING SITES TO INTERRUPT MALARIA TRANSMISSION IN VIETNAM I. RISK BEHAVIORS ASSOCIATED WITH MALARIA CASES SLEEPING IN A FARM OR FOREST

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MALARIA PARASITEMIA AND SEROLOGICAL PREVALENCE IN NEAR-ZERO TRANSMISSION SETTINGS IN SENEGAL

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ZAMBIAN MALARIA RAPID REPORTING SYSTEM: VARIATIONS IN DATA QUALITY ACROSS HEALTH FACILITIES IN SOUTHERN PROVINCE

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MALARIA CONTROL IN MIGRANT LABORERS WORKING IN AGRICULTURAL FARMS IN METEMA REGION, ETHIOPIA: CURRENT PRACTICES, FEASIBILITY AND ACCEPTABILITY OF NEW MALARIA INTERVENTIONS

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DATA USE FOR DECISION-MAKING THROUGH DATA MONITORING POSTERS IN KRIBI CAMEROON

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PREVALENCE OF MALARIA AND ANEMIA AMONG PATIENTS ATTENDING REFERENCE HEALTH CENTER IN NIORO DU SAHEL, MALI, WEST AFRICA

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HAS SEASONAL MALARIA CHEMOPREVENTION DECREASED THE MALARIA BURDEN AMONG CHILDREN UNDER FIVE YEARS IN SENEGAL?

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PREVALENCE OF PARASITEMIA DURING TWO SEASONS IN AN AREA RECEIVING SMC IN NIGER

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GEOGRAPHICAL, TEMPORAL AND SEASONAL TRENDS IN *PLASMODIUM OVALE* AND *PLASMODIUM MALARIAE* INFECTIONS IMPORTED TO THE UK BETWEEN 1987 AND 2015

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A LONGITUDINAL STUDY OVER THREE YEARS LEADS TO THE IDENTIFICATION OF *PLASMODIUM VIVAX* INFECTIONS IN DUFFY BLOOD GROUP NEGATIVE CHILDREN IN BANDAIGARA, MALI

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GROWTH TRAJECTORIES OF CHILDREN IN SEASONAL AND PERENNIAL MALARIA TRANSMISSION SETTINGS

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DETERMINANTS OF MALARIA PARASITEMIA AMONG CHILDREN UNDER 5 IN NIGERIA: AN ANALYSIS OF THE DRIVING FORCES THAT INFLUENCE PARASITEMIA

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DISTRIBUTION OF MALARIA BURDEN BY TRANSMISSION STRATUM SENEGAL 2016

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STUDY OF PREGNANCY OUTCOMES IN ASSOCIATION WITH MALARIA AND CO-INFECTION WITHIN MYANMAR'S PUBLIC HEALTH SYSTEM

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THE HIGHLY VARIABLE EPIDEMIOLOGY OF BLACKWATER FEVER

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APPROPRIATENESS OF MALARIA DIAGNOSIS AND TREATMENT OF FEVER EPISODE ACCORDING TO PATIENT HISTORY AND ANTIMALARIAL BLOOD MEASUREMENT

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LONGITUDINAL SEROLOGICAL EVALUATION OF MALARIA TRANSMISSION PATTERNS IN BIKO ISLAND, EQUATORIAL GUINEA

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TRENDS AND SEASONALITY OF SEVERE MALARIA DEATHS IN RWANDA, 2007-2016

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ASSESSMENT OF THE DYNAMICS OF *PLASMODIUM FALCIPARUM* PARASITEMIA REGARDING THREE ARTEMINININ COMBINATION REGIMENS FOR ACUTE UNCOMPLICATED MALARIATREATMENT, BANFORA, BURKINA FASO

Issiaka Soulama, Aboubacar Sam Coulibaly, Jean Moise Kaboré, Maurice San Ouattara, Edith C. Bougouma, Souleymane Sanon, Noélie Henry Béré, Amidou Diarra, Daouda Ouattara, Alphonse Ouédraogo, Amidou Ouédraogo, Benjamin S. Sombié, Issa Nèbié Ouédraogo, Alfred B. Tiono, Sodiomon B. Sirima
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THE ECONOMIC BURDEN OF MALARIA CASES IMPORTED FROM HISPANIOLA TO OTHER NON-ENDEMIC COUNTRIES IN THE WESTERN HEMISPHERE (2007- 2013)

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DIVIDE AND CONQUER: PARTITIONING MOSQUITO BITING HETEROGENEITY AND IDENTIFYING MALARIA HOTSPOTS FOR INTERVENTION

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TRACKING MALARIA SLIDE POSITIVITY RATES IN 30 SENTINEL SITES ACROSS GHANA

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PREVALENCE OF ASYMPTOMATIC MALARIA INFECTION AND GLUCOSE-6-PHOSPHATE (G6PD) DEFICIENCY IN A *PLASMODIUM VIVAX*-ENDEMIC SETTING, LAO PDR: IMPLICATIONS FOR SUB-NATIONAL ELIMINATION GOALS

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Marie Louise Tshibola Mbuyi¹, Denise Patricia Mawili-Mboumba¹, Tanguy de Dieu Tchanchou², Noé Patrick M'bondoukwe¹, Michelle Marrion Ntsame Owono¹, Michelle Marrion Ntsame Owono¹, Marielle Karine Bouyou-Akotet¹

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1027**EVALUATING THREE YEARS OF A TARGETED IRS CAMPAIGN IN A HIGH TRANSMISSION AREA OF NORTHERN ZAMBIA**

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1028**A SITUATIONAL ASSESSMENT OF THE DRIVERS OF MALARIA IN COMMUNITIES ALONG THE ZIMBABWE-MOZAMBIQUE BORDER OF MANICALAND PROVINCE**

Rose Kambarami¹, John Mandisarisa¹, Frank Chikhata¹, Simon Nyadundu², Simba Mashizha², Patron Mafaune², Joseph Mberikunashu³, **Fadzai Mutseyekwa**¹, Rugare G. Mandigo¹, Kate Gilroy⁴

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1029**THE EFFECT OF DROUGHT ASSOCIATED INDICATORS ON MALARIA IN SOUTHERN ZAMBIA**

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1030**OUTBREAK OF MALARIA IN UBON RATCHATHANI, THAILAND (2012-2015)**

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1031**DEMOGRAPHIC AND REGIONAL RISK FACTORS FOR MALARIA-ASSOCIATED HOSPITALIZATIONS IN WESTERN AND COASTAL KENYA**

Priyanka Suresh¹, Amy Krystosik¹, David M. Vu¹, Cornelius Kiptoo², John Vulule², Dunstan Mukoko³, Uriel Kitron⁴, Charles H. King⁵, Bryson Ndenga², Francis M. Mutuku⁶, **A. Desiree LaBeaud**¹

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1032**SPATIOTEMPORAL EPIDEMIOLOGY OF MALARIA IN THAILAND 2012-2015**

Nattwut Ekapirat¹, Prayuth Sudathip², Nipon Chinanonwait², Chris E. Mercado¹, Steeve Ebener³, **Richard J. Maude**¹

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1033**PROACTIVE COMMUNITY TREATMENT OF CHILDREN UNDER-5: RESULTS OF A PILOT PROJECT IN NORTHERN BENIN**

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Malaria - Genetics/Genomics**1034****A TLR1 POLYMORPHISM INCREASES THE RISK OF VIVAX MALARIA IN SOUTHERN INDIA**

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1035**VARIATION AT THE VAR2CSA LOCUS: RESULTS FROM A CROSS-SECTIONAL STUDY IN DEMOCRATIC REPUBLIC OF CONGO**

Robert Verity¹, Oliver Watson¹, Stephanie Doctor², Nicholas Hathaway³, Jeffrey Bailey³, Jonathan Juliano², Melchior Kashamuka⁴, Antoinette Tshetu⁵, Joris Likwela⁶, Azra Ghani¹, Steven Meshnick²

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1036**WITHIN-VECTOR PARASITE DIVERSITY: INSIGHTS FROM PLASMODIUM FALCIPARUM DEEP WHOLE-GENOME SEQUENCING FROM FIELD-CAUGHT MOSQUITOES IN NORTHERN ZAMBIA**

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1037**MATCHED PLACENTAL AND PERIPHERAL BLOOD PARASITES ARE GENETICALLY HOMOLOGOUS AT THE VAR2CSA ID1-DL2X LOCUS BY DEEP SEQUENCING**

Andreea Waltmann¹, Jaymin C. Patel¹, Kyaw L. Thwai¹, Nicholas J. Hathaway², Christian M. Parobek¹, Achille Massougboji³, Nadine Fievet⁴, Jeffery A. Bailey², Philippe Deloron⁴, Jonathan J. Juliano¹, Nicaise T. Ndam⁴, Steven R. Meshnick¹

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EVALUATING CROSS-BORDER MALARIA TRANSMISSION BETWEEN ZAMBIA AND THE DEMOCRATIC REPUBLIC OF CONGO: A PARASITE GENETICS APPROACH

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EUPATHDB: POWERFUL DATA-MINING TOOLS FOR EXPLORING THE BIOLOGY OF HOST-PATHOGEN INTERACTIONS

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A LARGE-SCALE GENETIC SCREEN OF *PLASMODIUM FALCIPARUM* IDENTIFIES GENOTYPY-PHENOTYPE MUTATIONS AFFECTING TOLERANCE TO FEBRILE TEMPERATURES

Min Zhang¹, Chengqi Wang¹, Phaedra Thomas¹, Jenna Oberstaller¹, Thomas D. Otto², Xiangyun Liao¹, Suzanne Li¹, Kenneth Udenze¹, Swamy R. Adapa¹, Katrina Button-Simons³, Michael T. Ferdig³, Julian C. Rayner², Rays H. Y. Jiang¹, John H. Adams¹

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G6PD DEFICIENCY IN CHILDREN IN AN AREA ENDEMIC FOR MALARIA IN BONGO PROVINCE, ANGOLA

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EFFECT OF *P. FALCIPARUM* CRT SINGLE NUCLEOTIDE POLYMORPHISM AND *PLASMEPSIN* 2-3 COPY NUMBER INCREASE ON *EX VIVO* PIPERAQUINE RESISTANCE IN *P. FALCIPARUM* ISOLATES FROM NORTHWESTERN CAMBODIA, 2012-2015

Molly Deutsch-Feldman¹, Lauren Norris², Mariusz Wojnarski³, Nicholas Brazeau⁴, Suwanna Chaorattanakawee³, Sok Somethy⁵, David L. Saunders³, Catherine Berjohn⁶, Pattaraporn Vanachayangkul³, Michele D. Spring³, Rekol Huy⁷, Mark M. Fukuda³, Lek Dysoley⁷, Phillip Smith³, Chanthap Lon⁸, Jonathan J. Juliano², Jessica T. Lin²

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QUANTIFYING *VAR* GENE EXPRESSION IN UNCOMPLICATED MALARIA INFECTIONS USING WHOLE GENOME SEQUENCE DATA

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GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* BASED ON *MSP-1* BLOCK2 GENEPOLYMORPHISM ANALYSIS IN ISOLATES FROM TSARATANANA COMMUNE, IFANADINA DISTRICT, SOUTHEAST OF MADAGASCAR

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GENOME-WIDE SCAN OF GENE *LOC1* UNDER POSITIVE SELECTION IN IMPORTED *PLASMODIUM VIVAX* FROM CHINA-MYANMAR BORDER AREA

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COMPLEX GENOMIC EVOLUTION OF INSECTICIDE RESISTANCE IN THE MAJOR AFRICAN MALARIA VECTOR *ANOPHELES FUNESTUS*

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STUDY ON MOLECULAR MARKERS ASSOCIATED WITH DIHYDROARTEMISIN-PIPERAQUINE AND OTHER DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM* POPULATION IN BINH PHUOC PROVINCE, VIETNAM 2015-2016

Nguyen T. Tuyen, Truong Nhi, Tran Tinh Hien, Nguyen Thuy- Nhien
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MALARIA IN HAITI: A GENOMIC APPROACH TO ITS EPIDEMIOLOGY AND BIOLOGY

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POPULATION STRUCTURE OF *P. FALCIPARUM* IS DETECTABLE AT SMALL SPATIAL SCALES IN KIIHI, UGANDA

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Malaria - Immunology

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PATTERNS OF INFLAMMATORY RESPONSES AND PARASITE TOLERANCE VARY WITH MALARIA TRANSMISSION INTENSITY

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CHARACTERIZATION OF B CELL SUBSETS OVER THE COURSE OF *PLASMODIUM YOELII* INFECTION AND ROLE OF CD73+ B CELLS IN PROTECTION

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NATURALLY ACQUIRED IMMUNITY TO *P. FALCIPARUM* GAMETOCYTE ANTIGENS

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GLUCOSE AND IRON METABOLISM IN MONOCYTES EXPOSED TO MALARIA

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A SINGLE NUCLEOTIDE POLYMORPHISM IN AN AP2 TRANSCRIPTION FACTOR ENCODED IN THE MALARIA CAUSING *PLASMODIUM BERGHEI* ALTERS THE DEVELOPMENT OF HOST IMMUNITY

Munir Akkaya, Patrick W. Sheehan, Abhisheka Bansal, Gunjan Arora, Alvaro Molina-Cruz, Mirna Pena, Takele B. Yazew, Chen-Feng Qi, Jeff Skinner, Louis Miller, Susan K. Pierce
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LIVER-RESIDENT MEMORY T CELLS CAN BE HARNESSSED FOR UNPRECEDENTED PROTECTION AGAINST MALARIA

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IMMUNOBIOLOGY OF THE KUPFFER CELL-SPOROZOITE INTERACTION

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INFLAMMATORY CYTOKINE RESPONSES IN MALARIAL ANAEMIA AMONG MANGALORE RESIDENTS, INDIA

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IDENTIFYING RIFIN AND STEVOR EPITOPES ASSOCIATED WITH MALARIA EXPOSURE USING PEPTIDE AND PROTEIN MICROARRAYS

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UNDERSTANDING THE DECLINE AND REBOUND IN IMMUNITY TO SYMPTOMATIC MALARIA DUE TO INTERVENTION DISRUPTION IN MALARIA TRANSMISSION

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1060**ANTIBODY IN THE SKIN: DO ANTIBODIES HAVE THEIR GREATEST IMPACT AT THE INOCULATION SITE?**

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(ACMCIP Abstract)

1061**MEMORY IL-4⁺ CD4 T CELL RESPONSES AS A POTENTIAL SURROGATE OF PROTECTION INDUCED BY *PLASMODIUM FALCIPARUM* RADIATION ATTENUATED SPOROZOITES**

Stasya Zarling, Urszula Krzych
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1062**ENHANCEMENT OF THE IMMUNE RESPONSE TO *PLASMODIUM YOELII* CIRCUMSPOROZOITE PROTEIN BY PD-1 INHIBITORS**

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Malaria - Modeling

1063**USING MULTI CRITERIA EVALUATION TO IDENTIFY PRIORITY AREA FOR INDOOR RESIDUAL SPRAYING, MADAGASCAR**

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1064**ARE PLANTATIONS A HOTSPOT OF MALARIA TRANSMISSION IN CAMBODIA? AN ECOLOGICAL STUDY AND MATHEMATICAL MODEL**

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1065**MODELLING THE POTENTIAL OF IVERMECTIN TREATED CATTLE AS A NOVEL MALARIA VECTOR CONTROL TOOL: IMPLICATIONS OF KILLING ZOOPHILIC MOSQUITOES**

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1066**ESTIMATING THE MALARIA ATTRIBUTABLE FEVER FRACTION ACCOUNTING FOR PARASITES BEING KILLED BY FEVER AND MEASUREMENT ERROR**

Kwonsang Lee, Dylan Small
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1067**UNDERSTANDING THE MALARIA TRANSMISSION PROCESS IN NEAR-ELIMINATION SETTINGS**

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1068**MODELING THE RELATIVE ABUNDANCE OF MAJOR MALARIA *ANOPHELES* SPP. ACROSS GHANA USING A BAYESIAN APPROACH**

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1069**PREDICTING NEW YORK CITY COMMUNITIES AT RISK FOR IMPORTED MALARIA: METHODS AND APPLICATIONS**

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1071**THE RELATIONSHIP BETWEEN *P. FALCIPARUM* PARASITEMIA FROM MIS DATA AMONG PREGNANT WOMEN AND CHILDREN AND ASSESSING THE USE OF ANC DATA FOR ESTIMATING MALARIA PREVALENCE**

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SAFETY, TOLERABILITY, IMMUNOGENICITY AND EFFICACY OF PFSPZ VACCINE VERSUS PFSPZ-CVAC IN EQUATOGUIANEAN YOUNG ADULTS

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SAFETY, FEASIBILITY AND TOLERABILITY OF RADIATION ATTENUATED *PLASMODIUM FALCIPARUM* SPOOROZOITE (PFSPZ) VACCINE ADMINISTERED BY DIRECT VENOUS INOCULATION TO HEALTHY CHILDREN AND INFANTS 5 MONTHS THROUGH 9 YEARS OF AGE IN WESTERN KENYA

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HOMOLOGOUS AND HETEROLOGOUS PRIME BOOST VACCINATIONS WITH DISTINCT VARIANTS OF *PLASMODIUM VIVAX* CIRCUMSPOROZOITE PROTEIN (CSP) PROTECTS MICE AGAINST TRANSGENIC PB/PV SPOOROZOITE CHALLENGE

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PFSPZ VACCINE INDUCES T CELL RESPONSES TO SPOOROZOITES AND FOUR MALARIA ANTIGENS

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PROTECTIVE EFFICACY OF DIRECT VENOUS INOCULATION OF ESCALATING DOSES OF PFSPZ VACCINE AGAINST CHMI BY DIRECT VENOUS INOCULATION OF PFSPZ CHALLENGE IN TANZANIAN ADULTS

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A PHASE 1, BLINDED, RANDOMIZED, DOSE ESCALATION TRIAL OF PFSPZ CHEMOPROPHYLAXIS VACCINATION (PFSPZ-CVAC) ON AN ACCELERATED SCHEDULE IN HEALTHY MALARIA-NAIVE ADULTS IN THE UNITED STATES

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EXCEPTIONAL TOLERABILITY OF CHLOROQUINE WHEN ADMINISTERED AS CHEMOPROPHYLAXIS WITH ASEPTIC, LIVE, CRYOPRESERVED NON-ATTENUATED WHOLE *PLASMODIUM FALCIPARUM* SPOOROZOITES (PFSPZ-CVAC) IN HEALTHY EQUATOGUINEAN YOUNG ADULTS

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CONSISTENCY OF INFECTION AFTER CONTROLLED HUMAN MALARIA INFECTION WITH PFSPZ CHALLENGE OF DIFFERENT AGE AND LOTS

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ANALYSIS OF LIVER PARASITE BURDEN FOLLOWING IMMUNIZATION WITH NOVEL MALARIA ANTIGEN PYE140 AND *PLASMODIUM YOELII* SPOOROZOITE CHALLENGE

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REMOTE AND OBJECTIVE MONITORING OF ANTI-MALARIAL BEDNET USE IN RURAL UGANDA: INSIGHTS FROM A PILOT STUDY

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URBAN LONG LASTING INSECTICIDAL NETS MASS CAMPAIGN DISTRIBUTION IN MADAGASCAR

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FEASIBILITY ASSESSMENTS FOR ITN CONTINUOUS DISTRIBUTION IN TWO SETTINGS: KENYA AND GUINEA

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(ACMCIP Abstract)**1119****CAN AGE AND GENDER DIFFERENCES IN THE RISK OF MALARIA BE EXPLAINED BY BEHAVIOR RELATED TO MOSQUITO EXPOSURE?**

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1120**QUANTIFYING GAPS IN ITN USE TO BETTER PLAN AND TARGET MALARIA INTERVENTIONS IN MADAGASCAR**

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1121**EMPOWERMENT EVALUATION TO ENGAGE COMMUNITY FOR MALARIA PREVENTION AND TREATMENT IN ETHNIC MINORITY POPULATIONS ALONG THE THAI MYANMAR BORDER**

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1122**COMPARISON BETWEEN AGE ESTIMATES OF WILD AN. ARABIENSIS USING NIRS CLASSIFICATION MODEL AND OVARY DISSECTION (DETINOVA'S METHOD)**

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1123**"SLEEP IS LEISURE FOR THE POOR" - UNDERSTANDING PERCEPTIONS, BARRIERS AND MOTIVATORS TO NET CARE AND REPAIR IN SOUTHERN TANZANIA**

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1124**MISSED OPPORTUNITIES FOR UPTAKE OF INTERMITTENT PREVENTATIVE TREATMENT FOR MALARIA IN PREGNANCY (IPTP): A CASE OF TANZANIA**

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1126**SAFE INDOORS: CHEAP, SUSTAINABLE SPATIAL REPELLENTS TO COMBAT RESISTANCE AND KEEP MALARIA VECTORS OUT OF HOMES**

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1127**INCREASING THE TIME BETWEEN INCIDENT MALARIA EPISODES IN UGANDAN CHILDREN: REPEATED APPLICATION OF IRS**

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1129**AN OBSERVATIONAL ANALYSIS OF THE IMPACT OF IRS IN THE SÉGOU REGION OF MALI: 2011-2014**

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TYPHOID FEVER CASE FATALITY RATE IN PATIENTS PRESENTING TO A LABORATORY NETWORK IN DHAKA, BANGLADESH

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IDENTIFYING CLINICAL PROFILES TO DISTINGUISH ROTAVIRUS FROM OTHER ETIOLOGIES AMONG CHILDREN < 5 YEARS OF AGE SEEKING CARE FOR MODERATE-TO-SEVERE DIARRHEA IN RURAL WESTERN KENYA – 2008-2012

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ENTEROPATHOGENS AND GUT INFLAMMATION IN ASYMPTOMATIC INFANTS AND CHILDREN IN DIFFERENT ENVIRONMENTS IN SOUTHERN INDIA

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SYNERGISTIC AND ANTAGONISTIC EFFECTS OF DIARRHEAGENIC E. COLI CO-INFECTIONS IN A MURINE MODEL

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LONGITUDINAL COHORT STUDY OF ACUTE GASTROENTERITIS AMONG U.S. MILITARY PERSONNEL DEPLOYED TO HONDURAS FROM 2014-2016

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ASSOCIATION BETWEEN CONTINUED FEEDING DURING HOME TREATMENT AND EXTENDED CASE FATALITY 50-90 DAYS FOLLOWING A MODERATE-TO-SEVERE DIARRHEAL EPISODE IN LOW AND MIDDLE-INCOME COUNTRIES

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DEVELOPMENT OF A SALMONELLA ENTERICA SEROVAR TYPHI TY21A STRAIN AS A MULTIVALENT VACCINE PLATFORM AGAINST SHIGELLOSIS, ETEC DIARRHEA AND TYPHOID FEVER

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YERSINIA PESTIS SURVIVES AND REPLICATES IN PHAGOCYtic AMOEBA: THE CONTINUING SEARCH FOR AN ENVIRONMENTAL PLAGUE RESERVOIR

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(ACMCI Abstract)

PREVALENCE OF ACUTE CHORIOAMNIONITIS AMONG HIV INFECTED AND UNINFECTED PREGNANT UGANDAN WOMEN AND ITS ASSOCIATION WITH ADVERSE BIRTH OUTCOMES

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CHARACTERIZATION OF ANTI-HELICOBACTER PYLORI PEPTIDES PRESENT IN THE HEMOLYMPH OF HERMETIA ILLUCENS LARVAE

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UTILIZING THE GENEEXPERT TESTING SYSTEM FOR SEXUALLY TRANSMITTED INFECTION DIAGNOSIS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

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FREQUENCY OF ANTIBIOTIC RESISTANCE AND ADHESION GENOTYPES IN ESCHERICHIA COLI STRAINS ISOLATED FROM VAGINAL INFECTIONS

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COLONIZATION WITH ESBL-PRODUCING ENTEROBACTERIACEAE OF HOUSEHOLD MEMBERS AND NEIGHBORS TWO MONTHS AFTER DISCHARGE OF COLONIZED PATIENTS FROM HOSPITAL IN RWANDA

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1150**A ROBUST INCUBATOR TO FACILITATE MORE WIDESPREAD BACTERIAL CULTURE FOR LOW RESOURCE ENVIRONMENTS IN DEVELOPING COUNTRIES**

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1152**THIRTEEN GLOBALLY CONDUCTED PRE-CLINICAL STUDIES ON DNA VACCINES AGAINST *LEPTOSPIRA*: A SYSTEMATIC REVIEW**

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1153**MLST ANALYSIS OF *BURKHOLDERIA PSEUDOMALLEI* ISOLATES FROM SRI LANKA**

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1154**EXAMINATION OF LABORATORY DATA FOR SURVEILLANCE OF ANTIMICROBIAL RESISTANCE IN OUTPATIENT URINARY TRACT INFECTIONS IN TAMIL NADU, INDIA — THE RATIONALE FOR CASE-BASED SURVEILLANCE**

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1155**UNEXPECTED PREVALENCE AND GEOGRAPHIC SPREAD OF SCRUB TYPHUS IN INDIA**

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1156**PREVALENCE OF BACTERIAL PATHOGENS IN WOUND INFECTIONS AND THEIR ANTIBIOTIC RESISTANCES ALONG THE RIVERS OF THE AMAZON BASIN**

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1158**DETECTION OF SCRUB TYPHUS IN A SUBSTANTIAL PROPORTION OF ACUTE ENCEPHALITIS SYNDROME PATIENTS IN INDIA: THE CASE FOR ROUTINE TESTING ANDEVALUATION**

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1159***IN SILICO* PREDICTION OF OUTER MEMBRANE PROTEINS FROM *BARTONELLA BACILLIFORMIS* AS CANDIDATE VACCINE**

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1160**THE EPIDEMIOLOGY OF SEVERE MALARIA IN RURAL UGANDA: A FRESH LOOK AT OLD PARADIGMS**

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1162**SURVEILLANCE OF ADVERSE EVENTS AND SERIOUS ADVERSE EVENTS DURING VACCINE TRIAL: EXPERIENCE OF CVD MALI**

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1164**ANTIMICROBIAL USE IN UNDER-FIVE CHILDREN WITH DIARRHEAL ILLNESS IN RURAL BANGLADESH**

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1165**REAL-WORLD ASSESSMENT OF THE WHO GUIDELINES FOR HEPATITIS B IN RESOURCE-LIMITED SETTINGS: A PROSPECTIVE COHORT STUDY IN UGANDA**

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1166**NON-OBSTETRIC DEATHS IN WOMEN OF REPRODUCTIVE AGE (12-49 YEARS) IN 12 RURAL COMMUNITIES FROM MAPUTO AND GAZA PROVINCE, SOUTHERN MOZAMBIQUE**

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1167**IMPACT OF INTEGRATING A PRE-REFERRAL TREATMENT OF SEVERE MALARIA WITH RECTAL ARTESUNATE AT THE COMMUNITY LEVEL: A NON-INFERIORITY TRIAL IN THE DEMOCRATIC REPUBLIC OF CONGO**

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1169**DELIVERY MECHANISM OF INTERMITTENT PREVENTIVE THERAPY (SULFADOXINE PYRIMETHAMINE) AMONGST PREGNANT WOMEN IN FEDERAL MEDICAL CENTRE KEFFI, NASSARAWA STATE**

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1170**HOW CAN WE KEEP IMMIGRANT TRAVELERS HEALTHY? HEALTH CHALLENGES EXPERIENCED BY CANADIAN SOUTH ASIAN TRAVELERS VISITING FRIENDS AND RELATIVES**

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1171**SAFETY AND IMMUNOGENICITY OF AGS-V, A MOSQUITO SALIVA PEPTIDE VACCINE: A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED PHASE 1 TRIAL**

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SAFETY AND FUNCTIONAL IMMUNOGENICITY OF P FALCIPARUM TRANSMISSION BLOCKING VACCINES PFS230D1M-EPA/ALHYDROGEL AND PFS25M-EPA/ALHYDROGEL ALONE AND IN COMBINATION IN MALIAN ADULTS

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BIOMARKERS OF ENDOTHELIAL AND IMMUNE DYSFUNCTION PREDICT MORTALITY IN FEBRILE OUTPATIENT TANZANIAN ADULTS

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OUTER MEMBRANE PROTEINS LSA46 AND LSA77 ARE POTENTIAL VACCINE CANDIDATES AGAINST LEPTOSPIROSIS PROTEINS LSA46 AND LSA77 ARE POTENTIAL VACCINE CANDIDATES AGAINST LEPTOSPIROSIS

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SAFETY AND FUNCTIONAL IMMUNOGENICITY OF PFS25M-EPA/AS01 AND PFS230D1M-EPA/AS01 TRANSMISSION BLOCKING VACCINES AGAINST PLASMODIUM FALCIPARUM IN MALIAN ADULTS

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CHILDHOOD NEURODISABILITY: CHALLENGES FACED BY CHILDREN AND THEIR FAMILIES IN RURAL NEPAL

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A NOVEL PUTATIVE LIPOPROTEIN OF LEPTOSPIRA INTERROGANS THAT INTERACTS WITH LAMININ, PLASMINOGEN AND COMPLEMENT COMPONENTS

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ASSESSMENT OF LEPTOSPIRA INTERROGANS PROTEINS LIC11711 AND LIC12587 AND THEIR INTERACTIONS WITH EXTRACELLULAR MATRIX AND PLASMA COMPONENTS

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PLASMODIUM FALCIPARUM CONTROLLED HUMAN MALARIA INFECTION IN MALARIA EXPOSED VOLUNTEERS: CAN IT INFORM MALARIA VACCINE TRIALS IN THE FIELD

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CASE REPORT OF SIGNIFICANTLY ABNORMAL LIVER ENZYMES IN HEALTHY VOLUNTEERS ENROLLED IN A MALARIA VACCINE CLINICAL TRIAL: IMPACT OF EMPIRIC ANTIMALARIAL DRUG TREATMENT ON VACCINE SAFETY EVALUATIONS

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THÉ MANAGEMENT OR HYDROCELE UN THÉ HEALTH DISTRICT OF KOLLO

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RECENT SUCCESSFUL CROSS-BORDER ONCHOCERCIASIS ELIMINATION ACTIVITIES - OUR EXPERIENCE

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THE SIGNIFICANT SCALE UP AND SUCCESS OF MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS IN ZAMBIA: ACCELERATING TOWARDS THE ELIMINATION GOAL OF 2020

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A COMPREHENSIVE ASSESSMENT OF PERSISTENT *WUCHERERIA BANCROFTI* IN HOTSPOTS IN GALLE COASTAL EVALUATION UNIT IN SRI LANKA 9 YEARS AFTER STOPPING MASS DRUG ADMINISTRATION

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MEASURING THE NUMBER OF REPRODUCTIVE ADULT FEMALES AND DEFINING TRANSMISSION ZONES FOR FILARIAL NEMATODES USING POPULATION GENETIC MEASURES

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(ACMCI Abstract)

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DEVELOPING THE FIRST NATIONAL DATABASE AND MAP OF LYMPHATIC FILARIASIS CLINICAL CASES IN MALAWI

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1192**PREDICTIVE VALUE OF OV16 ANTIBODY PREVALENCE IN DIFFERENT AGE GROUPS FOR ELIMINATION OF AFRICAN ONCHOCERCIASIS**

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1193**EFFORT TOWARDS ELIMINATION OF LYMPHATIC FILARIASIS IN CAMEROON: RESULTS OF A TRANSMISSION ASSESSMENT SURVEY IN 31 HEALTH DISTRICTS IN NORTHERN REGIONS**

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1194**WHERE ARE WE WITH ONCHOCERCIASIS IN MALI AFTER 40 YEARS OF IMPLEMENTATION OF CONTROL ACTIVITIES?**

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1195**ELIMINATION OF LYMPHATIC FILARIASIS AS A PUBLIC HEALTH PROBLEM IN NIGER: PROGRESS AND CHALLENGES TO REACHING THE TARGET BY 2020**

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1196**EFFICACY AND SAFETY OF MOXIDECTIN PLUS ALBENDAZOLE, MOXIDECTIN PLUS TRIBENDIMIDINE, AND MOXIDECTIN ALONE VERSUS ALBENDAZOLE PLUS OXANTEL PAMOATE AGAINST TRICHURIS TRICHIURA AND CONCOMITANT SOIL-TRANSMITTED HELMINTH INFECTIONS: A RANDOMIZED CONTROLLED TRIAL**

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1197**EVALUATION OF THE ANTHELMINTHIC ACTIVITY OF COMPOUNDS EXTRACTED FROM DALEA PARRYI, D. POGONATHERA AND D. NANA (PLANTAE, FABACEAE)**

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1198**PREVALENCE OF SOIL TRANSMITTED HELMINTHIASIS AND SCHISTOSOMIASIS AMONG SCHOOL GOING CHILDREN IN SELECTED COUNTIES, KENYA, 2013-2015**

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1200**HYGIENIC BEHAVIORS AND RISKS FOR ASCARIASIS AMONG COLLEGE STUDENTS IN KABUL AFGHANISTAN**

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1201**CHILD DEVELOPMENT CENTER-BASED SURVEILLANCE AND CONTROL OF SOIL-TRANSMITTED HELMINTH INFECTIONS IN PRESCHOOL-AGE CHILDREN IN SELECTED LOCAL GOVERNMENT UNITS IN THE PHILIPPINES**

Vicente, Jr. Y. Belizario¹, John Paul Caesar R. delos Trinos¹, Olivia T. Sison², Jonathan Neil Erasmo³, Marie Jocelyn Te⁴, Agapito Hornido⁵, Cathrel Nava⁶, Marie Cris Modequillo⁷

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1202**CHARACTERISTICS AND OUTCOMES OF STRONGYLOIDIASIS IN SOUTHERN THAILAND**

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Mahamadou Traoré¹, Boubacar Guindo², Benoit Dembélé², Aly Landouré³, Seydou Goita², Modibo Keita², Moussa Sacko³, Zana Berthé², Abdoul K. Sidibé¹, Steven D. Reid⁴, Marily Knieriemen², Yaobi Zhang⁵

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HIV and Tropical Co-Infection

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1216**TRENDS IN THE PREVALENCE OF HIV/AIDS IN THE STATE OF MISSISSIPPI: A FIVE YEAR REVIEW**

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1217**PROSPECTIVE VALUE OF QUANTIFERON TB GOLD FOR ACTIVE TUBERCULOSIS IN ART NAIVE HIV POSITIVE INDIVIDUALS IN THE AFRICAN COHORT STUDY**Inge Kroidl¹, Michael Holscher², Lucas Maganga³, Emmanuel Bahemana⁴, Jonah Maswai⁵, John Owuoth⁶, Yakubu Adamu⁷, Hannah Kibuuka⁸, Leigh Anne Eller⁹, Michelle Imbach⁹, Christina Polyak⁹, Julie Ake¹⁰¹*Division of Infectious Diseases and Tropical Medicine, Medical Center of the University of Munich, Munich, Germany*, ²*German Center for Infection Research, Munich, Germany*, ³*Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania*, ⁴*Walter Reed Program-Tanzania, Mbeya, United Republic of Tanzania*, ⁵*KEMRI/Walter Reed Project, Kericho, Kenya*, ⁶*KEMRI/Walter Reed Project, Kisumu, Kenya*, ⁷*Walter Reed Program-Nigeria, Abuja, Nigeria*, ⁸*Makerere University-Walter Reed Project, Kampala, Uganda*, ⁹*U.S. Military HIV Research Program, Henry M. Jackson Foundation, Bethesda, MD, United States*, ¹⁰*U.S. Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States*

1218**PATTERNS OF HIV STATUS DISCLOSURE TO HOUSEHOLD MEMBERS IN AN AFRICAN COHORT**Akindiran Akintunde¹, Yakubu Adamu¹, Hannah Kibuuka², Jonah Maswai³, Lucas Maganga⁴, John Owuoth⁵, Senate Amusu¹, Julie Ake⁶, Christina Polyak⁶, Christina Polyak⁷, Trevor A. Crowell⁶, Trevor A. Crowell⁷¹*Walter Reed Program-Nigeria, Abuja, Nigeria*, ²*Makerere University – Walter Reed Project, Kampala, Uganda*, ³*Walter Reed Project, Kericho, Kenya*, ⁴*Mbeya Medical Research Programme, Mbeya, United Republic of Tanzania*, ⁵*Walter Reed Project HIV Program-Kisumu West District, Kisumu, Kenya*, ⁶*U.S. Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States*, ⁷*Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, United States*

1219**POPULATION LEVEL ANALYSES TO EXAMINE COMORBID HIV/AIDS INFECTION IN SUB-SAHARAN AFRICA AND TRANSMISSION OF DRUG RESISTANT MALARIA PARASITES**Brandi K. Torrevillas¹, Nicholas Hathaway², Ozkan Aydemir², Carolyne Kifude³, Robin Miller², Deborah Stiffler³, Mrignayni Venkatesan², Alida Gerritsen¹, Dan New¹, Jeffrey Bailey², V. Ann Stewart³, Shirley Luckhart¹¹*University of Idaho, Moscow, ID, United States*, ²*University of Massachusetts Medical School, Worcester, MA, United States*, ³*Uniformed Services University of the Health Sciences, Bethesda, MD, United States*

1220**CO-INFECTION MALARIA-HELMINTHIASIS IN PREGNANT WOMEN AT THE GENERAL HOSPITAL OF KIMPESE, DEMOCRATIC REPUBLIC OF CONGO**Solange E. Umesumbu¹, Dickens Mpembele², Trésor Zola³, Thierry L. Bobanga³¹*National Malaria Control program, Kinshasa, Democratic Republic of the Congo*, ²*Universite Simon Kimbangu, Kinshasa, Democratic Republic of the Congo*, ³*Universite de Kinshasa, Kinshasa, Democratic Republic of the Congo*

1221**UNUSUAL MORPHOLOGIES AND REPRODUCTION OF CRYPTOCOCCUS NEOFORMANS**Rito Zepa¹, José María Guevara Granados², Roberto Rojas³, Shivany Condor Montes⁴¹*Instituto de Medicina Tropical “Daniel Alcides Carrión”, Lima, Peru*, ²*National Hospital Carrión, Callao, Peru*, ³*Federico Villarreal National University, Lima, Peru*, ⁴*University of California, Berkeley, CA, United States*

1222**RETROSPECTIVE HOSPITAL REVIEW OF THE INCIDENCE HIV AND SYPHILIS IN HAITI FROM 2008-2016**Nuhira A. Masthan¹, Caroline J. Stephenson¹, Marie Y. Remy², Robert Nicolas², Michael E. von Fricken¹¹*George Mason University, Department of Global and Community Health, Fairfax, VA, United States*, ²*African Methodist Episcopal Church - Service and Development Agency Inc., Washington, DC, United States*

Kinetoplastida - Diagnosis and Treatment (Including *Leishmania* and Trypanosomes)

1223**CHARACTERIZATION OF THE POTENTIAL DIAGNOSTIC OF POLYANTIGENS FOR DETECTING *TRYPANOSOMA CRUZI* IN THE CHRONIC PHASE OF CHAGAS DISEASE**Fred L. Santos¹, Paola A. Celedon², Nilson I. Zanchin³, Wayner V. Souza⁴, Edmilson D. Silva⁵, Leonardo Foti³, Mitermayer G. Reis¹, Marco A. Krieger³, Yara M. Gomes⁴¹*Gonçalo Moniz Institute (Fiocruz-BA), Salvador, Brazil*, ²*Molecular Biology Institute of Paraná, Curitiba, Brazil*, ³*Carlos Chagas Institute (Fiocruz-PR), Curitiba, Brazil*, ⁴*Aggeu Magalhães Institute (Fiocruz-PE), Recife, Brazil*, ⁵*Biomanguinhos (Fiocruz-RJ), Rio de Janeiro, Brazil***(ACMCIP Abstract)**

1224**USE OF CHITOSAN MICROPARTICLES TO CAPTURE AND CONCENTRATE *T. CRUZI* DNA IN URINE OF EXPERIMENTALLY INFECTED GUINEA PIGS**Martha Helena Jahuiria-Arias¹, Alejandra Pando¹, Janet Acosta¹, Edith Arocutipa¹, Ye Castro-Sesquen², José Cconislla³, Ily Maza³, Christian Jacinto³, Ana Valderrama³, Holger Mayta⁴¹*Infectious Diseases Research Laboratory, Department of Molecular and Cellular Sciences, Universidad Peruana Cayetano Heredia, Lima, Peru*, ²*Department of International Health, Johns Hopkins University, Bloomberg School of Hygiene and Public Health, Baltimore, MD, United States*, ³*Universidad Nacional de Ingeniería, Lima, Peru*, ⁴*Infectious Diseases Research Laboratory, Department of Molecular and Cellular Sciences, Universidad Peruana Cayetano Heredia, Department of International Health, Johns Hopkins University, Bloomberg School of Hygiene and Public Health, Lima, Peru***(ACMCIP Abstract)**

1225**ANTI-LEISHMANIAL ACTIVITIES OF SYNTHETIC ENDOPEROXIDES, N-89 AND N-251**Kofi D. Kwofie¹, Sato Kai², Akina Hino¹, Sanjoba Chizu², Shimogawara Rieko¹, Irene Ayi³, Daniel Boakye³, Hye-Sook Kim⁴, Mitsuko Ohashi¹, Yoshitsugu Matsumoto², Nobuo Ohta¹¹*Tokyo Medical and Dental University, Tokyo, Japan*, ²*The University of Tokyo, Tokyo, Japan*, ³*Noguchi Memorial Institute for Medical Research, Accra, Ghana*, ⁴*Okayama University, Okayama, Japan*

1226**CO-ENCAPSULATED HOST- AND PARASITE-DIRECTED THERAPIES TO TREAT VISCERAL LEISHMANIASIS**Erica N. Pino¹, M. Shamim Hasan Zahid¹, Sanjay Varikut², Abhay Satoskar², Eric M. Bachelder¹, Kristy M. Ainslie¹¹*University of North Carolina at Chapel Hill, Chapel Hill, NC, United States*, ²*The Ohio State University, Columbus, OH, United States*

1227**THE STRONG HEARTS PILOT: RESULTS OF A PRIMARY-CARE SCREENING PROGRAM FOR *TRYPANOSOMA CRUZI* IN EAST BOSTON**

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1228**HIGH RESOLUTION MELTING ANALYSIS TARGETING HSP70 AS A FAST AND EFFICIENT METHOD FOR THE DISCRIMINATION OF *LEISHMANIA* SPECIES**

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1229**TISSUE IMPRESSION SMEAR AS A SUPPLEMENTARY DIAGNOSTIC TEST FOR HISTOPATHOLOGY IN CUTANEOUS LEISHMANIASIS**

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1230**IDENTIFICATION OF ANTI-*TRYPANOSOMA CRUZI* LEAD COMPOUNDS WITH PUTATIVE IMMUNOMODULATORY ACTIVITY**

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(ACMCIP Abstract)

1231**CHAGAS DISEASE IN THE GRAN CHACO Ecoregion: FROM SURVEILLANCE AND CONTROL TO DIAGNOSIS AND TREATMENT**

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1232**CIRCULATING MIRNAS PROFILE AS POTENTIAL SIGNATURE OF BENZNIDAZOLE TREATMENT TOXICITY IN CHAGAS PATIENTS**

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1233**THE POTENTIAL IMPACT OF VISCERAL LEISHMANIASIS VACCINES: EXPLORATIONS WITH DIFFERENT DETERMINISTIC AGE-STRUCTURED TRANSMISSION MODELS**

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1234**POTENTIATION OF BENZNIDAZOLE EFFECT BY COADMINISTRATION OF REPURPOSED DRUGS ACTING IN THE INVASION OF HOST CELLS BY *TRYPANOSOMA CRUZI***

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1235**BLOOD CLOT BASED QPCR FOR THE DIAGNOSIS OF CHAGAS DISEASE**

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(ACMCIP Abstract)

1236**DIAGNOSIS OF CHAGAS DISEASES BY QPCR IN DIFFERENT SAMPLES FROM NEWBORNS**

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1237**DIAGNOSING LEISHMANIASIS BY TARGETING THE ARGININE PERMEASE (AAP3) CODING SEQUENCE**

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SURROGATE MARKERS OF CURE FOR CHAGAS DISEASE IN CHILDREN TREATED WITH BENZNIDAZOLE DISEASE IN CHILDREN TREATED WITH BENZNIDAZOLE

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REGIONAL DIFFERENCES OF INFLUENZA LIKE-ILLNESS SYNDROME IN CHILDREN UNDER 5 YEARS, DHS PERU 2010 - 2014

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IMMUNODETECTION OF PYRAZINE-2-CARBOXYLIC ACID

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EFFECT OF CARBOXY TERMINAL MUTATIONS OF RIBOSOMAL PROTEIN S1 OF MYCOBACTERIUM TUBERCULOSIS ON INTERACTION WITH PYRAZINOIC ACID

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HIGH TUBERCULOSIS AND MULTIDRUG RESISTANT TUBERCULOSIS RATES IN A PERUVIAN COHORT

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METHODS OF A STUDY EVALUATING THE IMPACT OF LUNG ULTRASOUND (LUS) ON MANAGEMENT OF PNEUMONIA IN LOW-RESOURCE SETTINGS

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MATERNAL VITAMIN D SUPPLEMENTATION DURING PREGNANCY AND LACTATION TO PREVENT ACUTE RESPIRATORY INFECTIONS IN INFANCY IN DHAKA, BANGLADESH (MDARI TRIAL): A PROSPECTIVE COHORT STUDY NESTED WITHIN A RANDOMIZED CONTROLLED TRIAL DURING PREGNANCY AND LACTATION TO PREVENT RESPIRATORY INFECTIONS IN INFANCY IN BANGLADESH (MDARI TRIAL)

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Gwenyth Lee¹, German Comina², Gustavo Hernandez², Nehal Naik³, Jorge Coronel⁴, Eduardo Ticona⁵, Oscar Gayoso⁶, Alvaro Proaño⁴, Mirko Zimic⁴, Carlton Evans⁷, Robert H. Gilman⁸, Valerie Paz-Soldan², Richard Oberhelman²

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WORLD PNEUMONIA DAY 2011-2016: TWITTER CONTENTS AND RETWEETS

Md Mohiuddin Adnan¹, Ashley M. Jackson¹, Jingjing Yin¹, Zion Tsz Ho Tse², Hai Liang³, King-Wa Fu⁴, Isaac Chun-Hai Fung¹

¹Georgia Southern University, Statesboro, GA, United States, ²The University of Georgia, Athens, GA, United States, ³The Chinese University of Hong Kong, Hong Kong, Hong Kong, ⁴The University of Hong Kong, Hong Kong, Hong Kong

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ASSOCIATION BETWEEN SELF-REPORTED SYMPTOMS WITH OBJECTIVE COUGH AND DYNAMIC MYCOBACTERIAL MICROBIOLOGY IN PATIENTS WITH ACTIVE PULMONARY TUBERCULOSIS

Nehal S. Naik¹, Gwenyth O. Lee², German Comina², Gustavo Hernandez², Jorge Coronel³, Oscar Gayoso³, Eduardo Ticona⁴, Robert Gilman⁵, Valerie A. Paz-Soldan², Richard Oberhelman²

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Tyler E. Warkentien¹, Tham Nguyen², Khanh C. Nguyen³, Yen Le Hai⁴, Benjamin Anderson⁵, Gregory C. Gray⁵

¹U.S. Naval Medical Research Center Asia, Singapore, Singapore, ²Duke-National University Singapore, Singapore, Singapore, ³National Institute of Hygiene and Epidemiology, Hanoi, Vietnam, ⁴Military Institute of Preventive Medicine, Hanoi, Vietnam, ⁵Duke University, Durham, NC, United States

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Fyezah Jehan¹, Imran Nisar¹, Salima Kerai¹, Benazir Baloch¹, Nick Brown²

¹Aga Khan University, Karachi, Pakistan, ²University of Southampton, Southampton, United Kingdom

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Moumine Sanogo¹, Bassirou Diarra², Yacouba Toloba³, Bakary Konate⁴, Antiémé Combo Georges Togo¹, Gaoussou Berthe³, Diaguina Soumare³, Bocar Baya¹, Drissa Goita¹, Yeya dit Sadio Sarro¹, Mamoudou Maiga⁵, Michael Belson⁶, Susan Orsega⁶, Soukalo Dao¹, Robert L. Murphy⁵, Sophia Siddiqui⁶, Bouke de

Jong⁷, Seydou Doumbia¹, Souleymane Diallo¹

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Anastasia Putri¹, Risca Marcalene¹, Irene Purnamawati¹, Zulkifli Amin², Cleopas Martin Rumende²

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Samantha Nava

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

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Karine Sonzogni-Desautels, Timothy G. Geary, Momar Ndao
McGill University, Montreal, QC, Canada

(ACMCIP Abstract)

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Suchita Rastogi

Stanford University, Palo Alto, CA, United States

(ACMCIP Abstract)

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Jessica R. Conrad

Tulane University, New Orleans, LA, United States

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Academic Medical Centre, Amsterdam, Netherlands

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Carol A. Gilchrist¹, Cecelia Burkey², Emtiaz Ahmed³, Shahnawaz Ahmed³, Md. Masud Alam³, Tuhinur Arju³, Mamun Kabir³, Priya Duggal⁴, Poonum Korpe⁴, William A. Petri², Rashidul Haque³, Abu S. Faruque³

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Cristina Montoya¹, Raul Ynocente¹, Miguel Mogollon¹, Christian Huaman¹, Cusi Ferradas², Noelia Angulo², Alejandro Florentini², Maritza Calderon², Juan Jimenez¹

¹UNMSM, Lima, Peru, ²UPCH, Lima, Peru

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Robert K. Choy¹, Ellen R. Rafferty², Janna M. Schurer³, Michael B. Arndt⁴, Eugenio L. de Hostos¹, David A. Shultz⁴, Marwa Farag²

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Ikuo Igarashi¹, Bumduuren Tuvshintulga¹, Thillaiampalam Sivakumar¹, Aki Ishiyama², Masato Iwatsuki², Naoaki Yokoyama¹

¹Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan, ²Kitasato University, Tokyo, Japan

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Fabiana M. Paula¹, Gessica B. Melo¹, Fernanda M. Malta¹, Celina W. Maruta², Paulo R. Criado², Vera Lucia P. Castilho², Elenice Mn Gonçalves², Maria Cristina Espirito Santo¹, Ronaldo Cesar Gryscek¹

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Godfrey Mayoka¹, Jennifer Keiser², Kelly Chibale¹

¹University of Cape Town, Cape Town, South Africa, ²University of Basel and Swiss Tropical and Public Health Institute, Basel, Switzerland

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Christine F. Markwalter, David W. Wright

Vanderbilt University, Nashville, TN, United States

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*LUMC, Leiden, Netherlands***1270****ASSESSING THE IMPACT OF INTENSIFIED TREATMENT STRATEGIES AGAINST UROGENITAL SCHISTOSOMIASIS IN NIGER****Anna E. Phillips**¹, Amina Amadou², Amadou Garba³¹Imperial College, London, United Kingdom, ²RISEAL Niger, Niamey, Niger, ³World Health Organization, Geneva, Switzerland**1271****DYNAMIC OF SCHISTOSOMIASIS PREVALENCE FROM 2011 TO 2016 COHORT STUDY IN KALIFABOUGOU MALI****Safiathou N. Doumbo**¹, Kadiatou Sidibé¹, Abdrahamane Traoré¹, Jules Sangala¹, Dldier Doumtabe¹, Aissata Ongoiba¹, Tran Tuan², Kassoum Kayentao¹, Peter Crompton², Boubacar Traoré¹, Ogobara K. Doumbo¹¹Malaria Research and Training Center/ICER/Mali, Bamako, Mali, ²Immunogenetic Lab, Rockville, WA, United States**1272****PRELIMINARY OBSERVATIONS ON THE FEASIBILITY OF USING A MAGNETIC PROBE FOR ISOLATION OF SCHISTOSOME EGGS FROM URINE****Renata Russo Frasca Candido**¹, Robert Charles Woodward¹, Carlos Graeff-Teixeira², Malcolm Kenneth Jones³, Timothy Guy St. Pierre¹¹The University of Western Australia, Crawley, Australia, ²Pontificia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil, ³The University of Queensland, Brisbane, Australia**1273****SOCIAL DETERMINANTS OF PREVENTIVE CHEMOTHERAPY UPTAKE DURING MASS-DRUG ADMINISTRATION INTERVENTIONS FOR SCHISTOSOMIASIS IN SUB-SAHARAN AFRICA: A SYSTEMATIC REVIEW****Carlos A. Torres-Vitolas**, Fiona Fleming, Nadia Ben Meriem, Neerav Dhanani, Elizabeth Hollenberg*Schistosomiasis Control Initiative, Imperial College London, London, United Kingdom***1274****INFLAMMATORY BIOMARKERS ARE RELATED TO CRITICAL PREGNANCY OUTCOMES RELATED TO CRITICAL PREGNANCY OUTCOMES****Ajibola I. Abioye**¹, Emily A. McDonald¹, Sangshin Park¹, Jonathan D. Kurtis², Hannah Wu¹, Sunthorn Pond-Tor², Palmera Baltazar³, Luz P. Acosta³, Remigio M. Olveda³, Veronica Tallo³, Jennifer F. Friedman¹¹Department of Pediatrics, The Warren Alpert Medical School of Brown University, Providence, RI, United States, ²Department of Pathology, The Warren Alpert Medical School of Brown University, Providence, RI, United States, ³Research Institute for Tropical Medicine, Manila, Philippines, Leyte, Philippines**1275****AN EVOLUTION OF PARASITOLOGICAL- AND SEROLOGICAL-BASED METHODS FOR DIAGNOSIS OF INTESTINAL SCHISTOSOMIASIS IN HIGH-LOW ENDEMIC SETTINGS****Hajri Alshehri**¹, Michelle C. Stanton¹, Aaron Atuhaire², Moses Arinaitwe², Aida Wamboko², Moses Adriko², Narcis B. Kabatereine², J. Russell Stothard¹¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Vector Control Division, Ministry of Health, Kampala, Uganda**1276****EFFICACY AND SAFETY OF PRAZIQUANTEL IN PRESCHOOL-AGED AFRICAN CHILDREN WITH INTESTINAL OR URINARY SCHISTOSOMIASIS - AN INDIVIDUAL-PATIENT DATA META-ANALYSIS****Piero L. Olliaro**¹, Michel Vaillant², Francisca Mutapi³, Nicholas Midzi⁴, Takafira Muduluzua⁵, Welcome M. Wami⁶, Norman Naush⁷, Moussa Sacko⁸, Abdoulaye Dabo⁹, Mariama S. Lemine¹⁰, Amadou Garba¹⁰

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Maria Cristina C. Espirito-Santo¹, Pedro Paulo Chieffii², Fabiana Martins de Paula², Vera Lúcia Pagliusi Castilho², Elenice Messias do Nascimento Gonçalves², Magali Orban², João Renato Rebello Pinho², João Renato Rebello Pinho², Expedito José de Albuquerque Luna², Ronaldo Cesar Borges Gryscheck¹
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Martina R. Laidemitt¹, Martin W. Mutuku², Gerald M. Mkoji², Eric S. Loker¹
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Ashley Tseng, Stephen Lee, Grace O'Brien, Natalie Dang
McGill University, Montreal, QC, Canada

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Louis-Albert Tchuem Tchuénté
University of Yaoundé I, Yaoundé, Cameroon

Water, Sanitation, Hygiene and Environmental Health

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Sydney C. Hubbard¹, Manjunath B. Shankar¹, Bishwa B. Adhikari¹, Warren Malambo², Sunkyoung Kim¹, Martin I. Meltzer¹, Joan M. Brunkard¹
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Imperial College London, London, United Kingdom

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Leon Espira, Joseph N. Eisenberg
University of Michigan, Ann Arbor, MI, United States

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Stella M. Hartinger¹, Maribel Riveros¹, Gabriela Salmon-Mulanovich¹, Hector Verastegui¹, Nestor Nuño², Guido Bendezu¹, Theresa J. Ochoa¹, Daniel Mäusezahl²

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Vasco Carvalho, Fiona Vincer
The MENTOR Initiative, Crawley, United Kingdom

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Sonia T. Hegde¹, James Trostle², Joseph Eisenberg¹
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Kelly K. Baker, William T. Story, Cody Hansen, Evans Walsler-Kuntz, Miriam B. Zimmerman
University of Iowa College of Public Health, Iowa City, IA, United States

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Ilenga Nkhata¹, Christina Wakefield², Laurie Markle¹, Rim Abdullah³, David A. Larsen³

¹Akros, Lusaka, Zambia, ²The Manoff Group, Washington, DC, United States,

³Syracuse University, Syracuse, NY, United States

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Aysha Khan¹, Ejaz Hussain¹, Syed Iqbal Azam², Farah Bader¹, Lexy Jamison¹, Sahrish Durrani¹, Elizabeth Thomas¹, Julia M. Baker¹, Saba Wasim², Wasi Shah¹, Khalil Ahmed³, Zeba Rasmussen¹

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A QUALITATIVE ASSESSMENT OF MOTIVATORS AND BARRIERS TO HANDWASHING BEHAVIORS IN AN EMERGENCY SETTING IN NORTH KIVU, DEMOCRATIC REPUBLIC OF CONGO

Lauren S. Blum¹, Anicet Yemweni², Victoria Trinius¹, Mimi Kambere³, Foyeke Tolani⁴, Marion O'Reilly⁴, Jelena V. Allen¹, Susan T. Cookson⁵, Thomas Handzel⁶, Pavani K. Ram⁶

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EVALUATION OF COMMUNITY-DERIVED ECOLOGICAL SANITATION TECHNOLOGY IN THE PERUVIAN AMAZON

Jessica Rothstein, Krista Liguori, Steven J. Chow, Margaret Kosek, Peter J. Winch

Johns Hopkins University, Baltimore, MD, United States

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Maria S. Ruiz-Diaz, Gustavo J. Mora-Garcia, Doris E. Gomez-Camargo
Universidad de Cartagena, Cartagena de Indias, Colombia

CTropMed® Exam Executive Committee Meeting

Hilton - Johnson B (East Building, First Floor)

Tuesday, November 7, 12:15 p.m. - 1:30 p.m.

Late Breaker Abstract Session 87

Late Breakers in Basic Science/Molecular Biology

Convention Center - Room 337/338 (Level 300)

Tuesday, November 7, 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 Schedule booklet in your registration packet for the presentation schedule.

CHAIR

Naomi Forrester

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

Rebekah Kading

Colorado State University, Fort Collins, CO, United States

Mid-Day Session 88

Career Trajectories and Work-Life Balance in Academia, Government and the Private Sector of the Infectious Disease Arena

Convention Center - Room 339/340 (Level 300)

Tuesday, November 7, 12:15 p.m. - 1:30 p.m.

This panel discussion, organized by members of the American Committee on Arthropod-Borne Viruses (ACAV), will convey the unique experience of working on infectious diseases from the perspective of different career tracks and through the lens of eminent leaders in the field. The following points will be addressed: a) How to advance professionally taking these different paths (climbing the ladder); b) What opportunities enable a 'personalized' work-life balance in these settings (workplace climate and flexibility).

CHAIR

A. Desiree LaBeaud

Stanford University, Stanford, CA, United States

Devika Sirohi

Purdue University, West Lafayette, IN, United States

PANELISTS

Anna P. Durbin

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Thomas P. Monath

BioProtection Systems Corp./NewLink Genetics, Inc., Devens, MA, United States

Katey Owen

Bill & Melinda Gates Foundation, Seattle, WA, United States

Ann Powers

Centers for Disease Control and Prevention, Fort Collins, CO, United States

Meet the Professors 89

Meet the Professors B: Enigmatic and Teaching Cases

Convention Center - Room 341/342 (Level 300)

Tuesday, November 7, 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. The Professors will discuss how their career has developed as examples for students and trainees.

CHAIR

David R. Boulware

University of Minnesota, Minneapolis, MN, United States

PRESENTER

Michele Barry

Stanford University, Stanford, CA, United States

Poster Session B Viewing

Convention Center - Hall F and G (Level 100)

Tuesday, November 7, 1:45 p.m. - 4 p.m.

Symposium 90

Transmission-Blocking Vaccines: What We Have Achieved So Far

Convention Center - Ballroom I (Level 400)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

Progress toward eradication of malaria requires efficient development of novel transmission-blocking interventions, such as rapidly acting and highly efficacious therapeutics and vaccines. Transmission blocking vaccines (TBVs) induce antibodies that target antigens expressed by the parasite in the mosquito host and can be an integral part of measures for malaria elimination. This symposium aims to discuss recent advances in transmission blocking vaccine development. In this session, scientists involved in developing and testing TBV will describe advances in different methodologies to measure malaria transmission. The session will discuss the latest results of Pfs230D1M-EPA/Alhydrogel and Pfs25M-EPA/Alhydrogel, a transmission blocking vaccine against *Plasmodium falciparum* malaria that was recently performed in Mali. Discussion will cover direct skin feeding assay (DSF) in this study, which has been proposed as a valuable tool for measuring the *in natura* transmission of malaria parasites from human hosts to mosquito vectors across heterogeneous populations. The session will demonstrate the advances of clinical development of a Pfs48/45-based transmission blocking malaria vaccine and discuss immune response to vaccination with the leading TBV candidates Pfs25 and Pfs230. The session will conclude with an explanation of recent discoveries and design of mosquito based malaria TBVs.

CHAIR

Camila H. Coelho

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

1:45 p.m.

CLINICAL DEVELOPMENT OF A PFS48/45-BASED TRANSMISSION-BLOCKING MALARIA VACCINE

Robert Sauerwein

Radboud University Medical Center, Nijmegen, Netherlands

2:05 p.m.

ANAPN1 MOSQUITO-BASED MALARIA TBV, VERSION 2.0: RE-DESIGN AND DELIVERY STRATEGIES

Rhoel David Dinglasan

University of Florida Emerging Pathogens Institute, Gainesville, FL, United States

2:25 p.m.

SAFETY AND IMMUNOGENICITY OF PFS230D1M-EPA/ALHYDROGEL AND PFS25M-EPA/ALHYDROGEL, A TRANSMISSION-BLOCKING VACCINE AGAINST *PLASMODIUM FALCIPARUM* MALARIA, IN ADULTS IN MALI

Issaka Sagara

University of Science, Techniques and Technologies of Bamako (USTTB), Bamako, Mali

2:45 p.m.

ASSESSING HUMORAL RESPONSE TO MALARIA TRANSMISSION-BLOCKING VACCINES

Camila Coelho

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

Scientific Session 91

Malaria: Chemotherapy and Drug Resistance - Molecular Biology

Convention Center - Ballroom II (Level 400)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

CHAIR

Allison Demas

Harvard T.H. Chan School of Public Health, Boston, MA, United States

Mariusz Wojnarski

Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

1:45 p.m.

1294

A NON-KELCH13 MOLECULAR MARKER OF ARTEMISININ RESISTANCE IDENTIFIED BY *IN VITRO* SELECTION OF RECENTLY-ADAPTED WEST AFRICAN *PLASMODIUM FALCIPARUM* ISOLATES

Allison R. Demas¹, Wesley Wong¹, Angela Early², Seth Redmond², Selina Bopp¹, Daniel E. Neafsey², Sarah K. Volkman¹, Daniel L. Hartl³, Dyann F. Wirth¹

¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²The Broad Institute, Cambridge, MA, United States, ³Harvard University, Cambridge, MA, United States

(ACMCIP Abstract)

2 p.m.

1295

PHENOTYPIC CHANGES AND DRUG SENSITIVITY ASSOCIATED WITH AN ATG18 MUTATION IN *PLASMODIUM FALCIPARUM*

Kimberly F. Breglio¹, Richard T. Eastman¹, David Roberts², Anna Katharina Simon², Craig J. Thomas¹

¹National Institutes of Health, Rockville, MD, United States, ²University of Oxford, Oxford, United Kingdom

(ACMCIP Abstract)

2:15 p.m.

1296

MULTIPLEX COMPETITIVE GROWTH ASSAYS FOR MEASURING THE BIOLOGICAL IMPACT OF FITNESS IN DRUG-RESISTANT *PLASMODIUM FALCIPARUM*

Manuela Carrasquilla, Oliver Billker, Julian Rayner, Marcus Lee
Wellcome Trust Sanger Institute, Cambridge, United Kingdom

2:30 p.m.

1297

A MALARIA GENETIC CROSS GENERATED IN A HUMANIZED MOUSE INDICATE MULTI-GENE CONTROL OF RESISTANCES TO ARTEMISININ AND PIPERAQUINE

Sage Z. Davis¹, Lisa Checkley¹, Richard S. Pinapati¹, Ashley Vaughan², Matthew Fishbaugher², Nelly Camargo², Marina McDew-White³, Shalini Nair³, François H. Nosten⁴, Stefan Kappe², Ian Cheeseman³, Timothy JC Anderson³, Michael T. Ferdig¹

¹Eck Institute for Global Health, Department of Biological Sciences, University of Notre Dame, South Bend, IN, United States, ²Center for Infectious Disease Research, Seattle, WA, United States, ³Texas Biomedical Research Institute, San Antonio, TX, United States, ⁴Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Mahidol, Mahidol, Thailand

(ACMCIP Abstract)

2:45 p.m.

1298

ISOLATION OF PIPERAQUINE RESISTANT RODENT MALARIA PARASITE FROM MUTATOR MALARIA

Makoto Hirai, Mie Ikeda, Shin-Ichiro Tachibana, Toshihiro Mita
Juntendo University, Bunkyo-ku, Japan

3 p.m.

1299

CURRENT STATE OF MALARONE RESISTANCE IN CAMBODIA AND ITS IMPLICATIONS ON THE TREATMENT OF PLASMODIUM FALCIPARUM IN SOUTHEAST ASIA

Mariusz Wojnarski¹, Panita Gosi¹, Andreea Waltmann², Jessica Lin², Catherine Berjohn³, Michele Spring¹, Suwanna Chaorattanakawee¹, Nonlawat Boonyalai¹, Pattaraporn Vanachayangkul¹, Dustin Harrison³, Somethy Sok⁴, Mali Ittiverakul¹, Nillawan Buathong¹, Soklyda Chann⁵, Worachet Kuntawunginn¹, Vireak Heang³, Nareth Kong⁶, Bolin Chum³, Agus Ratchmat³, Andrew Vaughn³, Satharath Prom⁴, Dysoley Lek⁶, Philip Smith¹, Mark Fukuda¹, David Saunders¹, Chanthap Lon¹

¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²Division of Infectious Diseases, University of North Carolina, Chapel Hill, NC, United States, ³Naval Medical Research Unit-2, Phnom Penh, Cambodia, ⁴Ministry of National Defense, Department of Health, Phnom Penh, Cambodia, ⁵Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, ⁶National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia

3:15 p.m.

1300

TRANSCRIPTIONAL RESPONSE OF P. VIVAX PARASITES TO CHLOROQUINE IN VIVO

Adam Kim¹, Jean Popovici², Didier Menard², David Serre¹
¹University of Maryland, Baltimore, MD, United States, ²Institut Pasteur in Cambodia, Phnom Penh, Cambodia

(ACMCIP Abstract)

Scientific Session 92

Malaria: Defining Strategies and Challenges for Optimal Use of Malaria Diagnostics

Convention Center - Ballroom III (Level 400)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

CHAIR

Johanna P. Daily
Albert Einstein College of Medicine, Bronx, NY, United States

Lauren Cohee
Institute for Global Health, University of Maryland, Baltimore, MD, United States

1:45 p.m.

1301

ESTIMATING HEALTH IMPACT OF RAPID DIAGNOSTIC TESTS FOR MALARIA

Elina Pradhan, Jessica Cohen, Joshua Salomon
Harvard T.H. Chan School of Public Health, Boston, MA, United States

2 p.m.

1302

EVIDENCE OF CHANGING CASE MANAGEMENT BEHAVIOURS FOLLOWING AN INTERVENTION TO INTRODUCE MALARIA RAPID DIAGNOSTIC TESTS TO PRIVATE PHARMACIES IN KINSHASA

Marcel Lama¹, Willy Onema¹, Robi Okara², Katie MacDonald¹, Nikki Charman², Stephen Poyer²

¹Population Services International/ASF, Kinshasa, Democratic Republic of the Congo, ²Population Services International, Nairobi, Kenya

2:15 p.m.

1303

IMPACT OF A MALARIA RAPID DIAGNOSTIC TEST DETECTING PLASMODIUM FALCIPARUM-SPECIFIC HISTIDINE-RICH PROTEIN-2 (RDT-PfHRP2) ON THE MANAGEMENT OF FEBRILE CHILDREN UNDER-5 YEARS OF AGE IN A HIGH SEASONAL MALARIA TRANSMISSION AREA

Francois Kiemde¹, **Petra Mens**², Achille Bonko¹, Marc Tahita¹, Palpiguine Lompo¹, Halidou Tinto¹, Michael Boele van Hensbroek², Henk Schallig²

¹Institut de Recherche en Science de la Sante-Unité de Recherche Clinique de Nanoro, Nanoro, Burkina Faso, ²Academic Medical Centre, Amsterdam, Netherlands

2:30 p.m.

1304

ASSESSING THE FIELD SENSITIVITY OF MALARIA ANTIGEN DETECTION TESTS USING AN ULTRA-SENSITIVE BEAD-BASED ASSAY

Mateusz Plucinski¹, Eric Rogier¹, Pedro R. Dimbu², Filomeno Fortes², Eric S. Halsey¹, Michael Aidoo¹

¹Centers for Disease Control and Prevention Malaria Branch, Atlanta, GA, United States, ²National Malaria Control Program, Luanda, Angola

2:45 p.m.

1305

PREVALENCE AND OUTCOMES OF P. FALCIPARUM INFECTIONS DETECTED ONLY BY ULTRA-SENSITIVE PCR IN SCHOOL CHILDREN IN SOUTHERN MALAWI

Anna Opoku-Agyeman¹, Gillian Mbambo², Sudhanshu Joshi², Matthew Adams², Jenna E. Coalson³, Mark L. Wilson³, Terrie E. Taylor⁴, Don P. Mathanga⁵, Miriam K. Laufer², Lauren M. Cohee²

¹University of Maryland Baltimore County, Baltimore, MD, United States, ²Division of Malaria Research, Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ³Department of Epidemiology, University of Michigan School of Public Health, Ann Arbor, MI, United States, ⁴Department of Osteopathic Medical Specialties, College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, ⁵Malaria Alert Center, University of Malawi College of Medicine, Blantyre, Malawi

3 p.m.

1306

SENSITIVITY COMPARISONS AMONG MOLECULAR DIAGNOSTIC TOOLS FOR MALARIA DIAGNOSIS REQUIRED FOR MALARIA ELIMINATION IN MADAGASCAR

Stéphanie Ramboarina¹, Fidiarivelo Rabearifeno², Fanomezansoa Ralinoro¹, Lovanirina Andrianjafy¹, Melinda Zikursh³, Brunette Razanadrazina¹, Thierry Franchard¹, Sedera Mioramalala¹, Peter A. Zimmerman³, Arsene Ratsimbasa¹
¹National Malaria Control Program, Androhibe, Antananarivo, Madagascar, ²Faculty of Sciences, University of Ankatso, Antananarivo, Madagascar, ³Case Western Reserve University, Cleveland, OH, United States

3:15 p.m.

1307

REAL-TIME DETECTION OF DEFECTIVE MRDTS IN THE FIELD: THE APPLICATION OF A SURVEILLANCE-RESPONSE SYSTEM FOR POST-MARKET SURVEILLANCE OF DIAGNOSTICS

Santiago Ferro¹, Patrick Adah², Orode Doherty², Kayla Seadon¹, Ernest Yeung¹, Nora Zwingerman³

¹Fio Corporation, Toronto, ON, Canada, ²Africare, Lagos, Nigeria, ³University of Toronto, Toronto, ON, Canada

Symposium 93

Movement of Tropical Diseases in Highly-Connected World

Convention Center - Ballroom IV (Level 400)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

Numbers of travelers are increasing year by year. In 2016 alone, more than 1.2 billion people traveled internationally. They could be exposed to various local pathogens during their trip depending on the places, activities and risk behaviors of the person. Some of them develop the diseases after leaving the area and therefore might be seen by physicians are not familiar with local diseases. For example, physicians in Europe or in the U.S. might see returned travelers who have acquired malaria, dengue, scrub typhus, melioidosis, schistosomiasis or other tropical disease during travel. On the other hand, physicians in Asia might see western travelers who have acquired lyme disease in Europe and develop classic skin lesions while they travel in Asia. Clinical approaches to derive at a correct diagnosis or management of these cases are always challenging. It requires clinical skills, epidemiological knowledge and good laboratory support. A manifestation may render many differential diagnoses depending on epidemiological background and underlying conditions. On the other hand, unexpected or unusual presentations may lure doctors away from common diseases. Physicians tend to manage the patients based on their own experiences with diseases occurring locally. Sharing knowledge with experts from various parts of the world will broaden the perspective on clinical approach, management, prevention and control. This symposium will provide insight into real clinical cases. Several cases from different parts of the world will be demonstrated. Some cases will be presented with the unusual manifestations of common tropical diseases. The others will be uncommon cases clinically imitating common diseases. The audience will be challenged and stimulated with various kinds of clinical dilemmas needing both didactic knowledge and pragmatic approach throughout the session.

CHAIR

Watcharapong Piyaphanee
Mahidol University, Bangkok, Thailand

1:45 p.m.

CLINICAL CASE PRESENTATION/DISCUSSION: MOVEMENT OF TROPICAL DISEASES IN HIGHLY-CONNECTED WORLD

Yupaporn Wattanagoon
Mahidol University, Bangkok, Thailand

2:05 p.m.

CLINICAL CASE PRESENTATION/DISCUSSION: MOVEMENT OF TROPICAL DISEASES IN HIGHLY-CONNECTED WORLD

Wirongrong Chierakul
Mahidol University, Bangkok, Thailand

2:25 p.m.

CLINICAL CASE PRESENTATION/DISCUSSION: MOVEMENT OF TROPICAL DISEASES IN HIGHLY-CONNECTED WORLD

William M. Stauffer
University of Minnesota, Minneapolis, MN, United States

2:45 p.m.

CLINICAL CASE PRESENTATION/DISCUSSION: MOVEMENT OF TROPICAL DISEASES IN HIGHLY-CONNECTED WORLD

Andreas Neumayr
Swiss Tropical and Public Health Institute, Basel, Switzerland

Scientific Session 94

West Nile and Other Viruses

Convention Center - Room 318/319/320 (Level 300)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

CHAIR

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

Jonathan B. Parr
University of North Carolina, Chapel Hill, NC, United States

1:45 p.m.

1308

Presentation by Burroughs Wellcome Fund-ASTMH Fellowship Recipient

DRIED BLOOD SPOTS ALLOW FOR EFFICIENT, LARGE SCALE SURVEYS OF HEPATITIS C VIREMIA

Jonathan B. Parr¹, Evans Lodge¹, Vera Holzmayr², Jacques Pepin³, Eric H. Frost³, Michael W. Fried¹, David R. McGivern¹, Stanley M. Lemon¹, Corinna Keeler¹, Michael Emch¹, Kashamuka Mwandagalirwa¹, Antoinette Tshetu⁴, Franck Fwamba⁵, Jeremie Muwonga⁵, Steven R. Meshnick¹, Gavin Cloherty²
¹University of North Carolina, Chapel Hill, NC, United States, ²Abbott Laboratories, Abbott Park, IL, United States, ³University of Sherbrooke, Sherbrooke, QC, Canada, ⁴Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ⁵Programme National de Lutte contre le SIDA et les IST, Kinshasa, Democratic Republic of the Congo

2 p.m.

1309

A NOVEL ROLE OF SCHLAFEN4 IN WEST NILE VIRUS REPLICATION AND PATHOGENESIS

Francoise Azouz, Keeton Krause, Lauren Ching, Vivek Nerurkar, Mukesh Kumar
University of Hawaii at Manoa, Honolulu, HI, United States

2:15 p.m.

1310

A CROSS-SECTIONAL STUDY OF NEUROCOGNITIVE OUTCOMES POST-WEST NILE VIRUS INFECTION

Shannon E. Ronca¹, Melissa N. Garcia¹, Sushmita Datta², Koushik Govindarajan², Ponnada Narayana², Lucrecia Salazar², Steven P. Woods³, Rodrigo Hasbun², Kristy O. Murray¹
¹Baylor College of Medicine, Houston, TX, United States, ²UTHealth, Houston, TX, United States, ³The University of Houston, Houston, TX, United States

2:30 p.m.

1311

EVOLUTION OF STRUCTURAL VARIATION IN THE UNTRANSLATED REGIONS OF THE WEST NILE VIRUS GENOME

Stacey L. Scroggs¹, Johnny A. Sena², Anitha Sundararajan², Faye D. Schilkey², Gregory D. Ebel³, Kathryn A. Hanley¹

¹New Mexico State University, Las Cruces, NM, United States, ²National Center for Genome Resources, Santa Fe, NM, United States, ³Colorado State University, Fort Collins, CO, United States

2:45 p.m.

1312

THE IMPACT OF INTRODUCTION OF JAPANESE ENCEPHALITIS VACCINE IN INDIA - THE SUCCESS STORY

Pradeep Haldar¹, Shalini Khare², Padmalochan Biswal²

¹Government of India, New Delhi, India, ²PATH, New Delhi, India

3 p.m.

1313

IMPAIRING THE INFECTION PROCESS OF YELLOW FEVER VIRUS IN *Aedes Aegypti* BY MANIPULATING THE MOLECULAR HINGE REGION OF THE ENVELOPE PROTEIN

Yan-Jang S. Huang¹, John T. Nuckols², Amy C. Lyons¹, So Lee Park¹, Alan D. Barrett³, Stephen Higgs¹, Dana L. Vanlandingham¹

¹Kansas State University, Manhattan, KS, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³University of Texas Medical Branch, Galveston, TX, United States

3:15 p.m.

1314

A PAN-VIRAL CAPTURE SEQUENCING APPROACH TO ELUCIDATE THE VIROME OF ACUTE FEVER AND ENHANCE VIRAL SURVEILLANCE IN WEST AFRICA

Katherine J. Siddle¹, Hayden Metsky², Simon Ye², Mouhamad Sy³, Patrick Brehio⁴, Adrienne Gladden-Young⁴, James Qu⁴, Christopher Tomkins-Tinch⁴, Daniel Park⁴, Christian Happi⁵, Daouda Ndiaye³, Christian B. Matranga⁴, Pardis C. Sabeti¹

¹Harvard University, Cambridge, MA, United States, ²Massachusetts Institute of Technology, Cambridge, MA, United States, ³Universite Cheikh Anta Diop, Dakar, Senegal, ⁴The Broad Institute, Cambridge, MA, United States, ⁵Redeemer's University, Osun State, Nigeria

Symposium 95

Accelerating Research Toward the Control of Cryptosporidium

Convention Center - Room 321/322/323 (Level 300)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

Cryptosporidium has long been recognized as an agent of diarrheal illness in young children and the immunocompromised (e.g., those with AIDS). However, Global Enteric Multicenter Study (GEMS) brought widespread international recognition to the fact that Cryptosporidium is a major diarrheal pathogen that stunts linear growth and increases risk for a fatal outcome. Of the two main species associated with diarrheal disease in mammals, >75% of the human pediatric diarrheal infections attributed to Cryptosporidium are due to *C. hominis*, which is human host-restricted in nature. Based on the acceptance of the enormous human epidemiologic disease burden attributed to *C. hominis*, there have been calls for accelerated programs to develop therapeutic drugs to treat and vaccines to prevent *C. hominis*. However, there are daunting obstacles on the

path to developing drugs and vaccines against *C. hominis*. Principal among these is the inability to culture this parasite *in vitro*, which, were it possible, would facilitate high-throughput screening of potential drugs. The only mammalian model other than human volunteers that results in infection and diarrhea following oral challenge with *C. hominis* is gnotobiotic piglets. Since physiologically relevant animal models of diarrheal infection with human Cryptosporidium strains are limited, the use of closely monitored human experimental challenge studies (human volunteer challenges) are in development. A pivotal experimental challenge study with *C. hominis* in adult volunteers is planned to test the hypothesis that an initial episode of diarrheal illness with ingestion of *C. hominis* oocysts may confer some level of protection against diarrhea following a repeat challenge with the same *C. hominis* strain. Nonetheless, the ability to initiate human challenge studies is precluded by the availability of *C. hominis* oocysts which are regulated by the U.S. FDA. The process of generating challenge oocysts according to current regulatory standards has been a daunting obstacle. This symposium will discuss the epidemiological data substantiating the global burden of diarrheal disease due to Cryptosporidium. Second, the session will describe the current status of *in vitro* methods in use for identifying potential therapeutics against Cryptosporidium. Third, the symposium will present the use of the gnotobiotic piglet model for the development of drugs and vaccines against Cryptosporidium. The symposium will feature a report on the status of development of the human volunteer challenge model for Cryptosporidium. The session will conclude with a discussion of the regulatory obstacles that have been encountered in the development of the human volunteer challenge model.

CHAIR

Wilbur H. Chen

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

1:45 p.m.

THE BURDEN OF CRYPTOSPORIDIUM DIARRHEAL DISEASE AMONG CHILDREN <24 MONTHS OF AGE

Khitam Muhsen

Tel Aviv University, Tel Aviv, Israel

2 p.m.

IN VITRO SCREENING FOR DRUGS AGAINST CRYPTOSPORIDIUM

Christopher D. Huston

University of Vermont College of Medicine, Burlington, VT, United States

2:15 p.m.

UNDERSTANDING CRYPTOSPORIDIUM THROUGH THE USE OF THE GNOTOBIOTIC PIGLET MODEL

Saul Tzipori

Tufts University, Cummings School of Veterinary Medicine, North Grafton, MA, United States

2:30 p.m.

THE DEVELOPMENT OF A HUMAN VOLUNTEER CHALLENGE MODEL FOR *C. HOMINIS*

Wilbur Chen

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

2:45 p.m.

REGULATORY AND FEASIBILITY OBSTACLES IN ESTABLISHING *C. HOMINIS* OOCYSTS FOR CHALLENGE

Gerald Quinnan, Jr.

Emmes Corporation, Rockville, MD, United States

Symposium 96

Safely Feeding the Planet: A Look to the Future

Convention Center - Room 324/325/326 (Level 300)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

Every year, one in ten people falls ill after eating contaminated food, and nearly half a million die. Foodborne illness also impedes global development by injuring children, straining health care systems and harming economies, tourism and trade. Last but not least, food safety, nutrition and food security are inextricably linked. In this symposium, a diverse panel will explore “big-picture” themes in global food-borne disease, safety and supply chains, as well as new initiatives and challenges facing the global food system, a multi-trillion dollar enterprise that affects nearly everyone on the planet.

CHAIR

Claire Panosian Dunavan

University of California Los Angeles School of Medicine, Los Angeles, CA, United States

Stephen Luby

Stanford University School of Medicine, Stanford, CA, United States

1:45 p.m.

OVERVIEW OF GLOBAL FOODBORNE DISEASE AND FOOD SAFETY MILESTONES

Claire Panosian Dunavan

University of California Los Angeles School of Medicine, Los Angeles, CA, United States

2:05 p.m.

FROM FSMA TO SAFELY FEEDING THE WORLD: THE CASE FOR CAPACITY BUILDING IN AFRICA

Michael Taylor

Meridian Institute, Washington, DC, United States

2:25 p.m.

HIDDEN DANGERS AND PERVERSE INCENTIVES IN THE GLOBAL SPICE TRADE: THE CASE OF BANGLADESH

Jenna Forsyth

Stanford University, School of Earth, Energy and Environmental Sciences, Stanford, CA, United States

2:45 p.m.

INNOVATING FOR URBAN AGRICULTURE: THE STORY OF THE VERTICAL FARM

Dickson Despommier

Columbia University, New York, NY, United States

Symposium 97

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

Convention Center - Room 327/328/329 (Level 300)

Tuesday, November 7, 1:45 p.m. - 3:30 p.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 2017 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

Philip Armstrong

The Connecticut Agricultural Experiment Station, New Haven, CT, United States

1:45 p.m.

ACME ANNUAL BUSINESS MEETING AND AWARDS PRESENTATION

Gonzalo M. Vazquez-Prokopec

Emory University, Atlanta, GA, United States

2 p.m.

HOOGSTRAAL MEDAL PRESENTATION

2:15 p.m.

SC JOHNSON (SCJ) INNOVATION AWARD

2:30 p.m.

CDC'S ROLE IN THE GLOBAL ZIKA RESPONSE: A PUBLIC HEALTH ENTOMOLOGY CALL TO ACTION

Audrey Lenhart

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

3 p.m.

NETWORKING AND SOCIAL TIME

Symposium 98

A Frank Discussion about Sustainable Healthcare Delivery with Rwandan, Malawian, Haitian and American Global Health Care Leaders

Convention Center - Room 331/332 (Level 300)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

The global health community has shifted its focus to sustainability with the introduction of the new Sustainable Development Goals. However, sustainable solutions to problems cannot be designed in absentia or isolation. Often the best and most well-intentioned

interventions designed for sustainability result in short-term “fixes”. While those in academia work to develop solutions, the voice of those charged with implementing and evaluating long-term solutions may be invited into the conversation too late. Panel members of on-the-ground health care leaders will share lessons learned: stories of success and failure in their personal work on sustainable health care solutions. Stories shared will include tackling quality improvement in Rwandan hospitals, working in Malawi with a Ministry of Health with limited resources and one of the worst nurse-to-patient ratios, moving from silos to integration in Haiti and beyond, and tackling infection control in the Navajo Nation. All of these settings grapple with high rates of infectious diseases, whether HIV, malaria, diarrheal and/or respiratory diseases. Panel members will give special attention to the role of building capacity, improving quality and augmenting the health workforce. The geographic diversity of the panel will provide the audience with perspective on how one size truly does not fit all in health care delivery.

CHAIR

Kimberly Baltzell
University of California San Francisco, San Francisco, CA, United States

1:45 p.m.

CATALYZING IMPLEMENTATION OF QUALITY IMPROVEMENT THROUGH MENTORING AND COACHING IN RESOURCE-LIMITED SETTINGS: LESSONS FROM RURAL DISTRICT HOSPITALS IN RWANDA

Anatole Manzi
Partners In Health, Boston, MA, United States

2 p.m.

MOVING FROM SILOS TO INTEGRATION TO IMPROVE HEALTH IN HAITI

Marc Julmisse
Hôpital Universitaire de Mirebalais, Mirebalais, Haiti

2:15 p.m.

HOW AN NGO AND THE MINISTRY OF HEALTH HARMONIZED TO BRING HEALTH CARE TO RURAL MALAWI

Vera Shaba
Partners In Health, Neno, Malawi

2:30 p.m.

CHALLENGES AND OPPORTUNITIES FOR INFECTION PREVENTION AND CONTROL IN THE NAVAJO NATION

Valerie Tenequer
Chinle Comprehensive Health Care Facility, Chinle, AZ, United States

Symposium 99

Internet and Other Digital ‘Big Data’ to Enhance Epidemic Surveillance and Public Health Decision-Making in Tropical and Low- to Middle-Income Countries

Convention Center - Room 337/338 (Level 300)
Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

In recent years digital ‘big data’ sources have been adopted to enhance communicable disease surveillance, particularly in tropical regions with rising internet access and with limited conventional surveillance infrastructure. Such data sources

include internet search engine logs, social media, automated newswire scraping and crowd-sourced participatory disease surveillance. This symposium will highlight the concepts and rationale behind developing such ‘digital epidemiology’ approaches to tropical diseases. Case studies will examine the accuracy, advantages and drawbacks of applying such real-time data sources to the surveillance and response to global health threats such as Zika, dengue, influenza, Ebola, cholera and malaria, particularly in low-and-middle-income countries. Barriers to the use of such novel forms of surveillance in outbreaks and epidemics will be explored, and a framework for implementing digital ‘big data’ into public health practice and decision-making will be presented. The first presenter will ‘set the stage’ for this symposium and provide an introductory overview and timeline of ‘digital epidemiology’, including fundamental concepts and data types (for instance, internet search engine, social media, internet newswire scraping and participatory surveillance). A wide range of pathogen case examples will be provided, including some of the first applications of digital disease detection to dengue and cholera. The next speaker will focus on the role of internet newswire scraping and the interactive disease-mapping HealthMap web-tool in the response to the recent Zika epidemic in the Americas. The practical use of HealthMap will be demonstrated for clinicians and public health end-users in the audience. Zika forecasting models which employ real-time HealthMap and Google data with other more conventional data streams will be discussed. Following is a presenter who will demonstrate how his statistical physics background in the characterization and modeling of the Internet and other large-scale information networks such as massive air-flight databases and granular population datasets were recently applied to the Ebola epidemic, including the estimation of intervention effectiveness and forecasting of international spread. The final speaker will cover the promises and challenges of participatory and crowd-sourced communicable disease surveillance in tropical regions such as Puerto Rico and Southeast Asia. Valuable perspectives will be offered on how implementing such new technologies in LMIC contrasts with their use in high-resource areas. This presentation will also address uses of participatory surveillance in a One Health context, including animal surveillance.

CHAIR

Simon Pollett
Walter Reed Army Institute of Research, Silver Spring, MD, United States
Matthew Biggerstaff
Centers for Disease Control and Prevention, Atlanta, GA, United States

1:45 p.m.

AN INTRODUCTORY OVERVIEW AND TIMELINE OF DIGITAL EPIDEMIOLOGY: CONCEPTS, DATA SOURCES AND APPLICATIONS TO TROPICAL DISEASES

Rumi Chunara
New York University, New York, NY, United States

2:05 p.m.

THE USE OF INTERNET-NEWSWIRE SCRAPING, SEARCH ENGINE DATA AND CROWD-SOURCED HEALTH TRACKING SYSTEMS IN THE RESPONSE TO THE ZIKA PANDEMIC AND OTHER PUBLIC HEALTH EVENTS

Mauricio Santillana
Harvard Medical School, Boston, MA, United States

2:25 p.m.

LARGE-SCALE INFORMATION NETWORKS TO SUPPORT THE FORECASTING AND RESPONSE TO THE EBOLA AND OTHER EPIDEMICS

Alessandro Vespignani
Northeastern University, Boston, MA, United States

2:45 p.m.

PARTICIPATORY AND INTERNET-BASED COHORTS TO ENHANCE EPIDEMIC SURVEILLANCE IN TROPICAL AND LOWER-RESOURCE SETTINGS: OPPORTUNITIES AND CHALLENGES

Jennifer Olsen
Skoll Global Threats Fund, San Francisco, CA, United States

Scientific Session 100

Filariasis: Molecular Biology, Immunology and Diagnostics

Convention Center - Room 339/340 (Level 300)
Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

CHAIR

Subash Babu
NIH-NIRT-ICER, Chennai, India

Sandra Bonne-Annee
National Institutes of Health, Bethesda, MD, United States

1:45 p.m.

1315

WUCHERERIA BANCROFTI INFECTION IS LINKED TO SYSTEMIC ACTIVATION OF CD4 AND CD8 T CELLS

Inge Kroidl¹, Mkunde Chachage², Jonathan Mnkai², Jaco J. Verweij³, Myrna Berninghoff¹, Lucas Maganga², Leonard Maboko², Petra Clowes², Michael Hoelscher¹, Elmar Saathoff¹, Christof Geldmacher¹
¹Medical Center of the University of Munich (LMU), Munich, Germany, ²National Institute for Medical Research Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, ³Laboratory for Medical Microbiology and Immunology, Elisabeth Tweesteden Hospital, Tilburg, Netherlands

(ACMCIP Abstract)

2 p.m.

1316

MODULATION OF HUMAN INNATE LYMPHOID CELL FUNCTION BY IL-10 AND TGF-BETA

Sandra Bonne-Annee, Thomas Nutman
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

2:15 p.m.

1317

BIOMARKERS OF ACTIVE INFECTION WITH ONCHOCERCA VOLVULUS

Sasisekhar Bennuru¹, Georgiette Oduro-Boateng¹, Papa M. Drame¹, David Abraham², Sara Lustigman³, Thomas B. Nutman¹
¹National Institutes of Health, Bethesda, MD, United States, ²Thomas Jefferson University, Philadelphia, PA, United States, ³New York Blood Center, New York, NY, United States

2:30 p.m.

1318

AN INVESTIGATION OF ONCHOCERCA VOLVULUS GEOGRAPHIC POPULATION-SPECIFIC SECRETED MIRNA PROFILES

Carmelle T. Norice-Tra¹, Ian Misner¹, 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)

2:45 p.m.

1319

DEVELOPMENT OF AN ANTIGEN-CAPTURE IMMUNOASSAY FOR THE DIAGNOSIS OF ACTIVE LOA LOA INFECTION

Papa M. Drame¹, Marco Biamonte², Thomas B. Nutman¹
¹National Institutes of Health, Bethesda, MD, United States, ²Drugs and Diagnostics for Tropical Diseases, San Diego, CA, United States

(ACMCIP Abstract)

3 p.m.

1320

COMPARISON OF PCR-METHODS FOR ONCHOCERCA VOLVULUS DETECTION IN SKIN BIOPSIES FROM THE TSHOPO PROVINCE, DRC

Jessica Prince-Guerra¹, Vitaliano A. Cama², Nana Wilson², Josias Likwela³, Nestor Ndakala⁴, J. Muzinga Muzinga⁴, Nicholas Ayebazibwe⁵, Yassa Ndjakani⁶, Naomi Awaca³, D. Mumba⁷, Antoinette Tshefu⁸, Paul Cantey²
¹ASM/Centers for Disease Control and Prevention Fellowship Program, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Programme National de la Lutte contre l'Onchocercose, Kinshasa, Democratic Republic of the Congo, ⁴FELTP, Kinshasa, Democratic Republic of the Congo, ⁵AFENET, Kampala, Uganda, ⁶CDC-DRC, Kinshasa, Democratic Republic of the Congo, ⁷Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo, ⁸Ecole de Sante Publique, Kinshasa, Democratic Republic of the Congo

3:15 p.m.

1321

IDENTIFYING "WINDOWS OF OPPORTUNITY" FOR THE DETECTION OF PARASITE MATERIAL IN THE EXCRETA/FECES OF VECTOR AND NON-VECTOR MOSQUITOES

Nils Pilonne¹, Darren Cook², Lisa J. Reimer², Steven A. Williams¹
¹Smith College, Northampton, MA, United States, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 101

Progress Towards Understanding and Preventing Key Causes of Child Mortality Through the CHAMPS Surveillance Network

Convention Center - Room 341/342 (Level 300)
Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

Current data on child mortality are limited by needs for extrapolation and modeling from datasets with limited clinical and diagnostic information. The Child Health and Mortality Prevention Surveillance (CHAMPS) Network, funded by the Bill & Melinda Gates Foundation, is designed to yield high-quality mortality burden data, and to drive action to reduce preventable child deaths. An innovative feature of CHAMPS is collection of post-mortem tissues through a non-disfiguring, rapid technique termed "minimally invasive tissue sampling" (MITS). CHAMPS combines social behavioral science, 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. This symposium will describe mortality surveillance methods, preliminary results from community engagement and mortality surveillance and prospects for effecting change through enhanced understanding of causes of child deaths in high-mortality settings in sub-Saharan Africa and South Asia. The objectives of this symposium are: 1) to describe standardized data collection methods to determine cause of death across diverse CHAMPS surveillance sites, including an assessment of strengths and limitations; 2) to describe social behavioral science findings that have shaped community engagement strategies, and initial data on community acceptability of CHAMPS; 3) to describe preliminary causes of death among neonates, infants and children under five years of age, based on the first CHAMPS sentinel data collection efforts anticipated from Mozambique, South Africa, Kenya, Mali and Bangladesh; 4) to illuminate how CHAMPS surveillance data are used to produce improvements in public health response at the local level, using examples from Kisumu County, Kenya. The session will open with an overview of standardized data collected on pediatric deaths notified by CHAMPS surveillance sites, which include innovative laboratory diagnostics and pathology, as well as medical records abstraction and verbal autopsy interviews. The session will introduce the Determination of Cause of Death (“DeCoDe”) expert panel process that aims to integrate these data sources systematically across diverse locations. Data from social behavioral research related to acceptability of mortality surveillance and MITS in representative CHAMPS surveillance sites will be presented. Early findings from the CHAMPS surveillance system and preliminary causes of death will be shared. Finally, to illustrate the central importance of local action in response to surveillance findings, colleagues from Kenya will describe diverse current and intended uses of CHAMPS mortality surveillance data within Kisumu County.

CHAIR

Robert F. Breiman
Emory Global Health Institute, Emory University, Atlanta, GA, United States
Samba Sow
CVD-Mali, Bamako, Mali

1:45 p.m.

THE CHAMPS APPROACH FOR DETERMINATION OF CAUSES OF DEATH (DECODE)

Dianna Blau
Centers for Disease Control and Prevention, Atlanta, GA, United States

2:05 p.m.

COMMUNITY ENGAGEMENT AND FORMATIVE RESEARCH TO ADVANCE MORTALITY SURVEILLANCE IN CHAMPS

Khatia Munguambe
Centro de Investigação em Saúde de Manhiça (CISM), Manhiça, Mozambique

2:25 p.m.

PRELIMINARY CAUSES OF UNDER 5 CHILD MORTALITY ACROSS THE CHAMPS NETWORK

Pratima Raghunathan
Centers for Disease Control and Prevention, Atlanta, GA, United States

2:45 p.m.

HOW KISUMU COUNTY MINISTRY OF HEALTH TRANSLATES CHAMPS SURVEILLANCE DATA TO ACTION IN KENYA

Dickens Onyango
Kisumu County Ministry of Health, Kenya, Kisumu, Kenya

Symposium 102

Pregnancy and Infectious Disease: Ethical, Legal and Global Challenges in Clinical Research

Convention Center - Room 343/344 (Level 300)

Tuesday, November 7, 1:45 p.m. - 3:30 p.m.

Global efforts to develop clinical interventions aimed at stemming the Zika outbreak starkly illuminate a well-known paradox in clinical research: Although pregnant women rely on medical treatments and preventions for a wide variety of health conditions, they are frequently underrepresented in—or altogether excluded from—clinical research studies of those interventions. As a consequence, there is a dearth of research to support interventions that would benefit pregnant women and their potential offspring. Health care providers working with this population must instead rely on anecdote and trial and error when making decisions about treatment and prevention, subjecting each woman, and the fetus she is carrying, to uncertain risk of harm for uncertain benefit. Because pregnancy can affect metabolism rates, and standard dosing is not always accurate, harms can include failure to treat, as well as exposure to medically ineffective or unsafe dosages of medication. Those outcomes raise numerous ethical issues related to social justice, equity, respect for autonomy and the duty to minimize harm and maximize benefit. The intertwined interests of pregnant women and their developing fetuses add an additional layer of ethical and legal complexity. All the foregoing are magnified in the context of infectious disease outbreaks, where risks and potential benefits of rapidly developed interventions may be unknown. This international and multidisciplinary symposium panel, representing the disciplines of medicine, law, bioethics and public health, will offer expert insights on the inclusion of pregnant women in global infectious disease research. Speakers will address the ethical and legal challenges specific to including pregnant women in infectious disease research, such as Ebola, Zika, malaria research and HIV. The panel collectively has experience related to infectious disease research with pregnant women, including: conducting and designing clinical research; participating in multidisciplinary efforts to craft ethics guidance; and, examining systemic obstacles that prevent pregnant women’s participation. Addressing the ethical and legal issues related to including pregnant women in infectious disease research is vital to ensuring that pregnant women and their future children will ultimately benefit from interventions essential to their health and well-being.

CHAIR

Anna Mastroianni
University of Washington, Seattle, WA, United States
Miriam K. Laufer
University of Maryland, Baltimore, MD, United States

1:45 p.m.

THE ETHICAL CHALLENGES IN CONDUCTING MALARIA RESEARCH AMONG PREGNANT WOMEN

Titus Divala

Blantyre Malaria Project, University of Malawi College of Medicine, Blantyre, Malawi

2:05 p.m.

ETHICALLY APPROPRIATE POLICY GUIDANCE FOR OUTBREAKS IN LMICS: IMPLICATIONS FOR EBOLA RESEARCH

Jeff Kahn

Johns Hopkins Berman Institute of Bioethics, Baltimore, MD, United States

2:25 p.m.

ZIKA: THE GAP BETWEEN THEORETICAL AND LIVED EXPERIENCES

Leslie M. Henry

University of Maryland, Baltimore, MD, United States

2:45 p.m.

LEGAL BARRIERS TO THE INCLUSION OF PREGNANT WOMEN IN RESEARCH

Anna Mastroianni

University of Washington, Seattle, WA, United States

TropStop Office Hours

Convention Center - Pratt Street West Lobby Foyer (Level 300)

Tuesday, November 7, 3 p.m. – 4 p.m.

Meet 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

Abdoulaye Djimde

Malaria Research and Training Center, University of Science Techniques and Technologies, Bamako, Mali

Alison Krentel

Bruyere Research Institute, Ottawa, ON, Canada

Exhibit Hall Open

Convention Center - Swing Hall (Level 100)

Tuesday, November 7, 3:15 p.m. - 4:15 p.m.

Coffee Break

Convention Center - Swing Hall (Level 100)

Tuesday, November 7, 3:30 p.m. - 4 p.m.

Poster Session B Dismantle

Convention Center - Hall F and G (Level 100)

Tuesday, November 7, 4 p.m. - 6:15 p.m.

Symposium 103

Mechanisms of Immunity to Malaria – Implications for Vaccine Development

Convention Center - Ballroom I (Level 400)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

A detailed understanding of human immunity to malaria is crucial for advancing and informing the development and evaluation

of vaccines for malaria and the development of biomarkers of immunity for vaccine development and evaluation in clinical trials. In this symposium, the speakers will address the current state of knowledge on immunity to malaria, highlight recent major insights into immunity, and present new data on this topic, with a particular focus on mechanisms and targets of human immunity. This will include immunity to malaria caused by *P. falciparum* and *P. vivax*, and will consider humoral and cell-mediated components of the immune response.

CHAIR

James Beeson

Burnet Institute, Melbourne, Australia

Chris King

Case Western Reserve University, Cleveland, OH, United States

4 p.m.

NEW DEVELOPMENTS IN MECHANISMS OF ACQUIRED IMMUNITY TO *PLASMODIUM VIVAX* MALARIA

Christopher L. King

Case Western Reserve University, Cleveland, OH, United States

4:20 p.m.

T CELL IMMUNITY TO *P. FALCIPARUM* - INSIGHTS FROM FIELD STUDIES

Margaret Feeney

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

4:40 p.m.

MECHANISMS OF HUMORAL IMMUNITY TO DIFFERENT STAGES OF *P. FALCIPARUM* MALARIA

James Beeson

Burnet Institute, Melbourne, Australia

5 p.m.

CORRELATES OF PROTECTION FROM CONTROLLED HUMAN MALARIA INFECTION STUDIES IN AFRICAN ADULTS

Melissa Kapulu

Kenya Medical Research Institute, Kilifi, Kenya, Kenya

Symposium 104

Monitoring Antimalarial Resistance and *Plasmodium falciparum* Genetic Diversity in Africa: What We Know Now

Convention Center - Ballroom II (Level 400)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

Information on population-level genetics and genomics of the *Plasmodium falciparum* parasite is critical for our understanding of patterns in malaria transmission and the impacts of malaria control interventions. Data on molecular markers of resistance to artemisinin and partner drugs can serve as an early warning to guide further clinical investigations of potentially failing treatments. Genomic data on antigen diversity and selection of specific genotypes can help to guide vaccine development and monitor for vaccine 'escape'. The sustainability of efforts to catalog parasite genetic diversity in Africa hinges on developing approaches that build capacity in the region. This symposium highlights two such efforts, the PMI-supported Antimalarial Resistance in Africa (PARMA) network, and the *Plasmodium* Diversity Network Africa (PDNA). PARMA was established in

2014 to support PMI countries to incorporate molecular testing of drug resistance markers into standard antimalarial Therapeutic Efficacy Studies and to transfer capacity for laboratory testing to local institutions. PARMA has been supporting activities in eight PMI countries since its inception, with plans to extend to at least four more countries in 2017. PDNA is an African-led collaboration of scientists that was first established in 2013 and has now grown to include collaborating institutions in 15 countries. PDNA's goal is the standardized generation and analysis of *Plasmodium* genomic data to inform malaria control and elimination efforts. Symposium presentations will also synthesize the latest knowledge in molecular monitoring of drug resistance and in overall parasite genomic diversity, drawing from data collected across both networks in several African countries. Finally, the topic of lessons learned through capacity-building networks will be discussed through a moderated format which will focus on sharing presenters' experiences and encouraging interaction with the audience.

CHAIR

Eric S. Halsey
Centers for Disease Control and Prevention; U.S. President's Malaria Initiative, Atlanta, GA, United States

Abdoulaye Djimde
University of Science, Techniques and Technology of Bamako, Bamako, Mali

4 p.m.

PMI-SUPPORTED ARTEMISININ RESISTANCE MONITORING IN AFRICA (PARMA NETWORK)

Meera Venkatesan
United States Agency for International Development, Washington, DC, United States

4:15 p.m.

PLASMODIUM DIVERSITY NETWORK AFRICA (PDNA): AN AFRICA-LED NETWORK FOR MALARIA GENETICS

Abdoulaye Djimde
University of Science, Techniques, and Technologies of Bamako, Mali, Bamako, Mali

4:30 p.m.

CURRENT PATTERNS OF ANTIMALARIAL RESISTANCE MARKERS ACROSS PMI COUNTRIES IN AFRICA

Daouda Ndiaye
Cheikh Anta Diop University, Dakar, Senegal, Dakar, Senegal

4:55 p.m.

GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* IN PDNA MEMBER COUNTRIES

Alfred A. Ngwa
Medical Research Council Unit, Banjul, Gambia

Scientific Session 105

Malaria: Mass Drug Administration and Reactive Case Detection for Malaria Elimination

Convention Center - Ballroom III (Level 400)

Tuesday, November 7, 4 p.m. - 5:45 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

4 p.m.

1322

IMPACT OF TWO ANNUAL CYCLES OF MASS DRUG ADMINISTRATION ON TEMPORAL TRENDS OF CLINICAL MALARIA

Julia Mwesigwa¹, Jane Achan¹, Archibald Worwui¹, Jean-Pierre Van geertruyden², Umberto D'Alessandro¹

¹Medical Research Council Unit The Gambia, Banjul, Gambia, ²University of Antwerp, Antwerp, Belgium

4:15 p.m.

1323

SPEEDING UP MALARIA ELIMINATION; A CLUSTER RANDOMIZED CONTROLLED TRIAL OF MASS DRUG ADMINISTRATION IN SOUTHEAST MYANMAR, AN AREA WITH ARTEMISININ RESISTANCE

James Heaton¹, Alistair McLean², Myo Maung Maung Swe¹, Kyaw Soe¹, Chanida Indrasuta², Zay Soe Khant², Mallika Imwong³, Elizabeth Ashley¹, Arjen Dondorp³, Nicholas White³, Frank Smithuis¹

¹Myanmar Oxford Clinical Research Unit, Yangon, Myanmar, ²Medical Action Myanmar, Yangon, Myanmar, ³Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

4:30 p.m.

1324

REACTIVE CASE DETECTION WITH TARGETED MASS DRUG ADMINISTRATION: INTERRUPTING MALARIA TRANSMISSION AND ACHIEVING ELIMINATION BEYOND INTERVENTION AREAS IN NORTHWESTERN PERU

Antonio M. Quispe¹, Fernando A. Quintana², Edwar Pozo³, Margaret N. Kosek⁴, Eduardo Gotuzzo⁵

¹Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Dirección Regional de Salud, Tumbes, Peru, ³Dirección Regional de Salud, Piura, Peru, ⁴Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁵Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru

4:45 p.m.

1325

REACTIVE CASE DETECTION FOR MALARIA IN AMHARA NATIONAL REGIONAL STATE, ETHIOPIA: DESCRIPTIVE AND IMPACT EVALUATION ANALYSIS

Asefaw Getachew¹, Asnakew Yeshiwondim¹, Pooja Bansil², Belendia Serda¹, Berhane Tesfay¹, Adem Agmas¹, Melkamu T. Zeleke¹, Girma S. Guesses¹, Asmamaw L. Ayenew¹, Worku M. Workie¹, Teklehaimanot G. Kidanemariam³, Duncan Earle⁴, Caterina Guinovart⁵, Richard W. Steketee²

¹PATH MACEPA, Addis Ababa, Ethiopia, ²PATH MACEPA, Seattle, WA, United States, ³Amhara National Regional State Health Bureau, Addis Ababa, Ethiopia, ⁴PATH MACEPA, Lusaka, Zambia, ⁵PATH MACEPA/ISGlobal collaboration, Barcelona, Spain

5 p.m.

1326

EVALUATING THE EFFICIENCY OF REACTIVE CASE DETECTION TO ACHIEVE MALARIA ELIMINATION IN RURAL SOUTHERN ZAMBIA USING FOLLOW-UP HOUSEHOLD VISITS AND PARASITE GENOTYPING

Kelly M. Searle¹, Julia Pringle¹, Harry Hamapumbu², Michael Musonda², Ben Katowa², Tamaki Kobayashi¹, Jennifer C. Stevenson², Douglas E. Norris¹, Philip E. Thuma², William J. Moss¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Macha Research Trust, Macha, Zambia

5:15 p.m.

1327

ACHIEVING INTERRUPTION OF LOCALLY TRANSMITTED PLASMODIUM FALCIPARUM MALARIA CASES THROUGH PILOTING A BASIC ESSENTIAL PACKAGE OF ACTIVITIES FOR MALARIA ELIMINATION IN THE CONTEXT OF ARTEMISININ RESISTANCE, 2015-2017

Soy Ty Kheang¹, Say Chy¹, Sokomar Nguon¹, Kong Meng Seak¹, John Hustedt¹, Sam An Sen¹, Linna Khorn¹, Sovann Ek¹, Bunthy Om², Pisal Heng², Sovannaroth Siv², Rekol Huy², Rida Slot³

¹University Research Co., LLC, Chevy Chase, MD, United States, ²National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ³President's Malaria Initiative, U.S. Agency for International Development, Phnom Penh, Cambodia

5:30 p.m.

1328

A MULTI-COUNTRY INITIATIVE TO ACCELERATE ELIMINATION BY REDUCING CROSS-BORDER IMPORTATION OF MALARIA

Immo Kleinschmidt¹, Bongani Dlamini², Nyasha Mwendera², Phelele Fakudze², Kudzai Makomva², Simon Kunene³

¹London School of Hygiene & Tropical Medicine/Elimination 8, London, United Kingdom, ²Elimination 8, Windhoek, Namibia, ³Swaziland Ministry of Health, Mbabane, Swaziland

Symposium 106

Science is Real: Climate Change Impacts on Vector Borne-Diseases

Convention Center - Ballroom IV (Level 400)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

This symposium will address the impact of climate change on vector-borne diseases and how to assess those outcomes. Much of the work demonstrating climate effects on vector-borne diseases goes hand in hand with enhanced prediction of zones that could potentially become more suitable for vector-borne disease transmission in the future. Accurate prediction of these future vector-borne disease outbreaks could mobilize and target limited resources in a proactive and potentially more efficient manner than what has been done with previous emerging diseases. The connection between climate change and variability, and vector-borne disease risk will be discussed from varied perspectives: climate science, disease ecology, mathematical modeling, and archaeo-historic. The session will feature a panel discussion and networking period to highlight the importance of establishing ongoing collaborations and data-sharing networks to ensure the future inclusion of climate change data in global health initiatives, despite federal mandates and restrictions. The first speaker will present his use of remotely sensed climate data to predict vector-borne disease risk for

Rift Valley fever and chikungunya outbreaks. The next talk will present the ecological context of climate change impacts on vector-borne disease systems, particularly the impacts of local microclimate on mosquito population dynamics and vector-borne disease transmission. The following presenter will address how mathematical models can capture key nonlinear responses of mosquitoes and vectors to temperature, ultimately affecting vector-borne disease risk under changing climates. The final speaker will showcase the ways in which archaeo-historic datasets can provide cost-effective ways to investigate climate impacts on disease over time, using malaria as a case study. The session will conclude with a panel discussion on climate change collaborations and networks in restricted funding climate.

CHAIR

A Desiree LaBeaud
Stanford University, Stanford, CA, United States

Elyse Grossi-Soyster
Stanford University, Stanford, CA, United States

4 p.m.

CLIMATE TELECONNECTIONS ASSOCIATED WITH RIFT VALLEY FEVER AND CHIKUNGUNYA OUTBREAKS

Assaf Anyamba
Universities Space Research Association, Greenbelt, MD, United States

4:20 p.m.

ESTIMATING VECTOR-BORNE DISEASE TRANSMISSION IN A VARIABLE ENVIRONMENT

Courtney Murdock
University of Georgia, Athens, GA, United States

4:40 p.m.

NONLINEAR EFFECTS OF TEMPERATURE SHAPE THE RESPONSE OF VECTOR-BORNE DISEASE TO CLIMATE CHANGE

Erin Mordecai
Stanford University, Stanford, CA, United States

5 p.m.

IMPROVING VECTOR-BORNE DISEASE PREDICTION MODELING USING CLIMATE PROXY AND ARCHAEO-HISTORIC DATA

Krish Seetha
Stanford University, Stanford, CA, United States

Scientific Session 107

Zika I

Convention Center - Room 318/319/320 (Level 300)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

CHAIR

Nisha Duggal
Centers for Disease Control and Prevention, Fort Collins, CO, United States

Mauricio L. Nogueira
Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil

4 p.m.

1329

IMMUNE PROFILING AND NETWORK MODELING OF ZIKA VIRUS INFECTION IN CHILDREN WITH OR WITHOUT PRIOR EXPOSURE TO DENGUE VIRUS IN A COHORT STUDY IN NICARAGUA

Daniela Michlmayr¹, Theodore Pak², Adeeb Rahman³, Eun-Young Kim⁴, Seunghee Kim-Schulze⁵, Lionel Gresh⁶, Guillermina Kuan⁶, Andrew Kasarskis², Steven Wolinsky⁴, Angel Balmaseda⁷, Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Department of Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai, New York, NY, United States, ³Department of Oncological Sciences, Tisch Cancer Institute and the Immunology Institute, Icahn School of Medicine at Mount Sinai, New York, NY, United States, ⁴Division of Infectious Diseases, Feinberg School of Medicine, Northwestern University, Chicago, IL, United States, ⁵Sustainable Sciences Institute, Managua, Nicaragua, ⁶Health Center Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua, ⁷Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

4:15 p.m.

1330

LABORATORY IDENTIFICATION OF PERSISTENT ZIKA VIRAL RNA IN SEMEN OF A U.S. COHORT

Nisha Duggal, Paul Mead, Alison Hinckley, Sarah Hook, Erin McDonald, Mark Delorey, Heidi Becksted, Michael Anishchenko, Ryan Max, Amy Schwartz, Aaron Brault

Centers for Disease Control and Prevention, Fort Collins, CO, United States

4:30 p.m.

1331

STAGING EARLY AND LATE EVENTS IN ACUTE ZIKA VIRUS INFECTION USING RNA+ PUERTO RICAN AND CONTINENTAL U.S. BLOOD DONORS

Graham Simmons¹, Mars Stone¹, Kai Lu¹, Sonia Bakkour¹, Phillip C. Williamson², Donald J. Brambilla³, Cassia M. P. Busch¹, for the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III)⁴

¹Blood Systems Research Institute, San Francisco, CA, United States, ²Creative Testing Solutions, Tempe, AZ, United States, ³RTI International, Rockville, MD, United States, ⁴NHLBI, Rockville, MD, United States

4:45 p.m.

1332

PRIOR DENGUE VIRUS EXPOSURE SHAPES T CELL IMMUNITY TO ZIKA VIRUS IN HUMANS

Alba Grifoni¹, John Pham¹, Patrick H. O'Rourke¹, Bjoern Peters¹, Aruna D. de Silva², Michael J. Ricciardi³, Cassia G. Silveira⁴, Alvino Maestri⁴, Luzia M. de Oliveira-Pinto⁵, Paulo Vieira Damasco⁶, Mathew Collins⁷, Aravinda M. de Silva⁷, Sean A. Diehl⁸, Anna P. Durbin⁹, Cristhiam Cerpas¹⁰, Angel Balmaseda¹⁰, Guillermina Kuan¹¹, Josefina Coloma¹², Eva Harris¹², James E. Crowe Jr¹³, Mars Stone¹⁴, Phillip J. Norris¹⁴, Michael Busch¹⁴, Hector Vivanco-Cid¹⁵, Barney Graham¹⁶, Julie E. Ledgerwood¹⁶, David I. Watkins³, Esper G. Kallas⁴, Alessandro Sette¹, **Daniela Weiskopf**¹

¹La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States, ²Genetech Research Institute, Colombo, Sri Lanka, ³University of Miami Miller School of Medicine, Miami, FL, United States, ⁴University of Sao Paulo, Sao Paulo, Brazil, ⁵Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, ⁶Federal University of the State of Rio de Janeiro (UNIRIO), Rio de Janeiro, Brazil, ⁷University of North Carolina School of Medicine, Chapel Hill, NC, United States, ⁸University of Vermont, College of Medicine and Vaccine Testing Center, Burlington, VT, United States, ⁹Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ¹⁰National Virology Laboratory, National Center for Diagnosis and Reference, Ministry of Health, Managua, Nicaragua, ¹¹Health Center Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua, ¹²School of Public Health, University of California Berkeley, Berkeley, CA, United States, ¹³Vanderbilt University Medical Center, Nashville, TN, United States, ¹⁴Blood Systems Research Institute, San Francisco, CA, United States, ¹⁵Universidad Veracruzana, Veracruz, Mexico, ¹⁶Vaccine Research Center, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

5 p.m.

1333

INDEX CLUSTER STUDY OF ZIKA VIRUS INFECTION IN MANAGUA, NICARAGUA

Raquel Burger-Calderon¹, Karla González², Nery Sanchez³, José Victor Zambrana³, Sergio Ojeda³, Cristhiam Cerpas², Harold Suazo Laguna³, Fausto Bustos¹, Josefina Coloma¹, Guillermina Kuan⁴, Angel Balmaseda², Eva Harris¹
¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ²Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ³Sustainable Sciences Institute, Managua, Nicaragua, ⁴Health Center Sócrates Flores Vivas, Ministry of Health, Managua, Nicaragua

5:15 p.m.

1334

PREVALENCE AND INCIDENCE OF ZIKA VIRUS INFECTION AMONG HOUSEHOLD CONTACTS OF ZIKA PATIENTS, PUERTO RICO, 2016-2017

Eli Rosenberg¹, Katherine Doyle², Jorge L. Munoz-Jordan³, Liore Klein⁴, Laura Adams³, Matthew Lozier³, Tyler M. Sharp³, Gabriela Paz-Bailey²

¹Emory University Rollins School of Public Health, Atlanta, GA, United States, ²Division of HIV/AIDS Prevention, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, ⁴Caduceus Healthcare, San Juan, PR, United States

5:30 p.m.

1335

VIRAL LOAD DOES NOT SUPPORT ADE HYPOTHESIS IN DENGUE-PRIMED ZIKA-INFECTED PATIENTS

Ana Terzian¹, Alessandra Schanoski¹, Manlio Mota¹, Rafael Silva¹, Cassia Estofolete¹, Tatiana Colombo¹, Kathryn A. Hanley², Nikos Vasilakis³, Jorge Kalil⁴, **Mauricio L. Nogueira**¹

¹Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil, ²New Mexico State University, Las Cruces, NM, United States, ³University of Texas Medical Branch, Galveston, TX, United States, ⁴Universidade de Sao Paulo, Sao Paulo, Brazil

(ACMCIP Abstract)

Symposium 108

Challenges in Cholera Control and Elimination

Convention Center - Room 321/322/323 (Level 300)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

In 1817, two hundred years ago, the *cholera bacillus* first escaped from the delta region of the Ganges River. Carried by travelers along trade routes, the disease spread rapidly. By the early 1820s, trade and colonization had carried the disease throughout Asia, the Middle East, Eastern Africa and the Mediterranean coast. This was the first of seven cholera pandemics that have cumulatively caused millions of deaths around the globe, and unquantifiable human suffering, and social and economic disruption. The first observation of the comma-shaped "*vibrio*" *bacillus* was made by Filippo Pacini in 1854 in intestinal tissues of cholera victims, the same year that John Snow, one of the fathers of modern epidemiology, provided dramatic evidence of the transmission of cholera through contaminated water. Pacini's observation were later confirmed and expanded by Robert Koch, one of the fathers of modern microbiology. Two hundred years after its global spread and more than 150 years since the discovery of the causative micro-organism and its route of transmission, many parts of the world are still plagued by cholera, typically affecting the world's most poor and vulnerable populations. Every year

an estimated 2.8M cases of cholera occur and 91,000 deaths. This symposium will discuss the role of the current Oral Cholera Vaccines (OCV) in cholera control and present the results of a new systematic review and meta-analysis of the protection conferred by the current generation of OCV from trials and observational studies. Estimates of average protection from the standard two-dose regimen and a reduced one-dose regimen will be discussed, as well as estimates of protection over time to understand how the vaccine protection may wane. Comparative protection in key sub-groups including children will be explored. The Cholera Team Leader from the WHO will explain the role of the Global Task Force on Cholera Control and the Gavi-funded OCV stockpile. He will also share successes and challenges in introducing OCV to help control cholera from affected populations including recent experiences in outbreaks within the Horn of Africa. This symposium will also provide information on the current epidemiology of cholera in Asia and describe challenges in accurately understanding the true burden of disease. Finally the burden of disease and experiences in controlling cholera in Haiti both before and following Hurricane Matthew will be described.

CHAIR

Julia A. Lynch
International Vaccine Institute, Seoul, Republic of Korea

David Sack
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4 p.m.

KILLED WHOLE CELL ORAL CHOLERA VACCINE EFFICACY AND EFFECTIVENESS: A META-ANALYSIS

Andrew Azman
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4:20 p.m.

KILLED WHOLE CELL ORAL CHOLERA VACCINE INTRODUCTION: SUCCESSES AND CHALLENGES

Dominique Legros
World Health Organization, Geneva, Switzerland

4:40 p.m.

CHOLERA IN ASIA

Anna Lena Lopez
The Institute of Child Health and Human Development at the University of the Philippines Manila, Manila, Philippines

5 p.m.

EXPERIENCE WITH CHOLERA CONTROL IN HAITI

Louise Ivers
Massachusetts General Hospital, Partners in Health (PIH), Boston, MA, United States

Symposium 109

Evidence-Based Stratification of Malaria Risk: The Role of System and Operational Factors to Successfully and Sustainably Eliminate Transmission

Convention Center - Room 324/325/326 (Level 300)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

Tremendous success has been achieved in reducing malaria

burden, but significant challenges remain to increase coverage of effective interventions and move towards elimination strategies. Historical eradication programs such as smallpox have demonstrated the importance of shifting from mass interventions to surveillance-driven elimination measures. In contrast with successful historical eradication programs, malaria elimination must be achieved with a combination of imperfect and impermanent interventions. The increasing heterogeneity of malaria transmission as it declines towards zero requires targeting interventions to where they will be most effective, prioritizing population groups underserved by current strategies, while avoiding over-allocation of limited operational and financial resources. Identifying the most appropriate mix of interventions and how to reach sufficient coverage of target populations for a given place and time, requires disentangling malaria dynamics into the drivers of transmission and of persistent parasite reservoir. Improving system factors driving the effectiveness of malaria programs such as operations, organization, financing and delivery of malaria preventive and curative services will be important to accelerate towards malaria elimination. Opportunities for risk stratification and identifying system determinants accurately have only recently become available given unprecedented availability of remotely-sensed environmental covariates, and new analytical methods for high resolution mapping and modeling of relevant malaria metrics. In addition, analysis of survey and operational data enable the direct evaluation of aspects of systems on program performance, and suggest ways to overcome system bottlenecks. The success of future malaria elimination programs will rely on countries successfully applying analytical tools to make operationally-meaningful stratifications where optimized packages of interventions are targeting at-risk populations to achieve sustainable elimination. This symposium will describe how national malaria programs and their partners design and use operational stratification. Specific emphasis will be given to how malaria dynamics can be decomposed into metrics that can be linked to suitable malaria intervention packages with mathematical models. The example of the Cambodia malaria program will illustrate how the stratification framework can be applied to inform elimination strategies. Based on analysis of extensive survey data, the impact of system factors regarding the effective coverage of malaria interventions and its equitable distribution within populations will be addressed. Lessons learned from operational programs in Zambia to address system gaps will be presented.

CHAIR

Arnaud Le Menach
Clinton Health Access Initiative, Boston, MA, United States

Jaline Gerardin
Institute for Disease Modeling, Seattle, WA, United States

4 p.m.

MALARIA RISK STRATIFICATION AND UNDERSTANDING SYSTEM AND OPERATIONAL DETERMINANTS FOR PLANNING OF TARGETED ELIMINATION INTERVENTIONS

Justin M. Cohen
Clinton Health Access Initiative, Boston, MA, United States

4:15 p.m.
USING MATHEMATICAL MODELS TO DETERMINE RELEVANT MALARIA INTERVENTION STRATA TO ACHIEVE MALARIA ELIMINATION

Emilie Pothin
Swiss Tropical and Public Health Institute, Basel, Switzerland

4:35 p.m.
FROM THEORY TO PRACTICE: INCORPORATING MALARIA MODELING OUTPUT WITH SURVEILLANCE METRICS TO INFORM OPERATIONALLY-RELEVANT STRATIFICATION AND INTERVENTIONS IN CAMBODIA

Siv Sovannaroeth
Chief of Technical Bureau, National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia

4:55 p.m.
SYSTEM CONSTRAINTS AND THEIR IMPACT ON DISTRIBUTION AND EFFECTIVENESS OF MALARIA INTERVENTION

Katya Galactionova
Swiss Tropical and Public Health Institute, Basel, Switzerland

5:15 p.m.
MALARIA ELIMINATION IN ZAMBIA

Busiku Hamainza
National Malaria Control Center, Lusaka, Zambia

Symposium 110

American Committee of Medical Entomology (ACME) Symposium II: New and Young Investigators in Medical Entomology

Convention Center - Room 327/328/329 (Level 300)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

This symposium features the work of new and young investigators (graduate students, post-docs, and research fellows) who are working in the laboratories of ACME members or are themselves ACME members. The main aims are to provide an overview of the diverse sub-disciplines in medical entomology and to increase the visibility of early stage investigators. 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, sandflies, black flies, lice, kissing bugs, and bedbugs), of research approaches (to include applied and basic research, and emphasize burgeoning approaches/technologies), geographic regions and institutions, and of demographics (to balance representation of age, gender, race, ethnicity, and training levels).

CHAIR

Philip Armstrong
The Connecticut Agricultural Experiment Station, New Haven, CT, United States
Gonzalo M. Vazquez-Prokopec
Emory University, Atlanta, GA, United States

4 p.m.
PRESENTATION BY ACME TRAVEL AWARD RECIPIENT

4:15 p.m.
PLANT OILS ARE CAPABLE OF ENHANCING DIVERSE INSECTICIDES AGAINST SUSCEPTIBLE AND RESISTANT STRAINS OF MOSQUITOES

Edmund Norris
Iowa State University, Ames, IA, United States

4:30 p.m.
GENOMIC ANALYSIS OF BEHAVIORAL RESISTANCE IN ANOPHELES COLUZZII POINTS TOWARDS FLIGHT ACTIVITY AS THE UNDERLYING MECHANISM

Jacob I. Meyers
Texas A&M University, College Station, TX, United States

4:45 p.m.
CLIMATE IMPACTS ON BLACKLEGGED TICK HOST-SEEKING BEHAVIOR

Max McClure
Columbia University, New York, NY, United States

5 p.m.
Aedes Aegypti GENETIC DIVERSITY AND ARBOVIRAL DISEASE TRANSMISSION

Andrea Gloria-Soria
Yale University, New Haven, CT, United States

5:15 p.m.
Trypanosoma cruzi TRANSMISSION ECOLOGY AT NON-HUMAN PRIMATE FACILITIES IN TEXAS

Carolyn Hodo
Texas A&M University, College Station, TX, United States

5:30 p.m.
THE BIOLOGY OF MOSQUITO SPERM

Ethan Degner
Cornell University, Ithaca, NY, United States

Symposium 111

Cystic Echinococcosis: Advocacy to Action

Convention Center - Room 331/332 (Level 300)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

Cystic echinococcosis (CE) is globally distributed in most pastoral areas of the world. The latest estimate for the global burden of CE is 188,000 new cases per annum resulting in 184,000 DALYs (0.98 DALYs per case). The expansion in use of ultrasound (US) in field and clinical studies resulted in the development of US-based cyst staging, the WHO CE cyst classification. It has facilitated the application of uniform standards and principles of treatment currently recommended for each cyst type, yet the individual treatment modalities are still not on firm grounds, not adapted to different settings and not implemented in many parts of the world. In addition, advanced CE requires a multidisciplinary approach for improved outcomes. Although US screening in endemic regions has been performed, guidelines do not exist for whom to screen and with which perspective for the cases detected in low-resource settings. In non-endemic regions CE is being encountered more frequently because of immigration of afflicted person from countries in which the disease is endemic, yet many clinicians are unfamiliar with CE. This symposium is proposed to align with the WHO Informal Working Group on Echinococcosis to address gaps in knowledge and foster collaborations.

CHAIR

Thomas Junghans
University of Heidelberg, Heidelberg, Germany

Abela-Ridder Bernadette
World Health Organization, Geneva, Switzerland

4 p.m.

WHAT MAKES CYSTIC ECHINOCOCCUS SPECIAL AMONG NTDS?

Abela-Ridder Bernadette
World Health Organization, Geneva, Switzerland

4:20 p.m.

APPLYING WHO CYSTIC ECHINOCOCCUS CYST CLASSIFICATION: INTERACTIVE CASE-BASED DISCUSSION

Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

4:40 p.m.

ADVANCES IN PAIR AND OTHER PERCUTANEOUS METHODS: IDENTIFYING THE RIGHT PATIENT

Enrico Brunetti
IRCCS San Matteo Hospital Foundation - University of Pavia, Pavia, Italy

5 p.m.

MULTIDISCIPLINARY MANAGEMENT FOR ADVANCED CE: A MUST FOR BETTER OUTCOMES

Thomas Junghans
University of Heidelberg, Heidelberg, Germany

5:20 p.m.

CE-SCREENING: WHOM, WHY AND WHAT ARE THE PRECONDITIONS AND LIMITATIONS?

Francesca Tamarozzi
University of Pavia, Pavia, Italy

Symposium 112

The USAID NTD Program – Ten Years of the Largest PCT NTD Implementation Program in History: Lessons Learned and New Directions

Convention Center - Room 337/338 (Level 300)
Tuesday, November 7, 4 p.m. - 5:45 p.m.

In 2006, the U.S. Agency for International Development (USAID) established the Neglected Tropical Disease (NTD) program to support the scale-up of integrated platforms targeting five NTDS: lymphatic filariasis (LF), onchocerciasis, trachoma, soil transmitted helminthiasis (STH) and schistosomiasis. A major objective of the program was to leverage the significant drug donations being made by pharmaceutical companies to fight these diseases through preventive chemotherapy (PCT). Initially focused on the distribution of medicines through mass drug administration (MDA), the distribution of drugs to all persons at risk of infection in a given geographic area, the USAID NTD program quickly grew in scope and scale to include delineation of disease distribution via NTD mapping, national capacity-building for supervision, administration and supply chain management, strengthening of monitoring and evaluation systems, impact evaluations and more. The USAID NTD program is now the single largest supporter for implementation of national PCT NTD programs in the world and has become both an exemplary public-private partnership and a

learning lab for WHO policy and best practices. Established as a proof of concept, the first three years of the program focused on 12 countries and a goal to provide at least 160 million treatments to 40 million people annually within five years. By the end of year four, the program was supporting over 70 million individuals with more than 165 million treatments annually. By 2016, ten years after the start of the program, 2,539 districts whose disease status had been unknown were mapped for at least one NTD, allowing for the expansion of MDA to nearly 300 million persons annually. This ten-year landmark also saw a total of two billion treatments with an estimated commercial value of \$15.7 billion USD donated to USAID supported countries equating to approximately \$26 dollars in donated medicine for every \$1 spent by USAID. USAID's NTD program accomplishments are now unparalleled, having supported the treatment of more than 985 million individuals in 33 countries. As countries begin to achieve their 2020 elimination goals, monitoring and evaluation activities are becoming increasingly important, nearly doubling in quantity every two years. Between 2012 and 2016 alone, 3,348 districts have had disease assessments carried out, mostly for decisions on stopping treatment for LF or trachoma. This symposium will build on the lessons learned over the last ten years in terms of scale-up, advocacy, and partnership, and provide participants with an insight to program successes and challenges. It will include insight into how the program has impacted WHO, partners and countries and provide some ideas on what the next ten years may hold.

CHAIR

Darin S. Evans
U.S. Agency for International Development, Washington, DC, United States
Emily Wainwright
U.S. Agency for International Development, Washington, DC, United States

4 p.m.

NTDS CA. 2006: A GLOBAL SNAPSHOT

Eric Ottesen
Task Force for Global Health, Atlanta, GA, United States

4:20 p.m.

USAID BY THE NUMBERS: 10 YEARS OF IMPLEMENTATION SUPPORT

Violetta Yevstigneyeva
U.S. Agency for International Development, Washington, DC, United States

4:40 p.m.

RESULTS OF THE 2016 USAID NTD PROGRAM EVALUATION

Gilbert Burnham
Johns Hopkins, Bloomberg School of Public Health, Baltimore, MD, United States

5 p.m.

WHO POLICY AT SCALE

Dirk Engles
World Health Organization, Geneva, Switzerland

Scientific Session 113

Ectoparasite-Borne Diseases

Convention Center - Room 339/340 (Level 300)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

CHAIR

Mary Lynn Baniecki

The Broad Institute, Cambridge, MA, United States

Allen L. Richards

Naval Medical Research Center, Silver Spring, MD, United States

4 p.m.

1336

HOST BLOODMEAL REMNANT ANALYSIS DEMONSTRATES THE VARIABLE CONTRIBUTION OF WHITE FOOTED MICE TO ENZOOTIC TRANSMISSION OF LYME DISEASE SPIROCHETES

Heidi Goethert, Sam Telford

Tufts University School of Veterinary Medicine, N. Grafton, MA, United States

4:15 p.m.

1337

COMPARISON OF AN ULTRA-SENSITIVE PCR-BASED ASSAY TO TWO-TIER SEROLOGY IN THE DIAGNOSIS OF EARLY LYME DISEASE

John N. Aucott¹, Alison W. Rebman¹, Steven E. Schutzer², Ting Yang¹, Michael R. Mosel³, Mark J. Soloski¹, Mark W. Eshoo³

¹Johns Hopkins University, Baltimore, MD, United States, ²Rutgers New Jersey Medical School, Newark, NJ, United States, ³Ibis Biosciences, Inc., Carlsbad, CA, United States

4:30 p.m.

1338

GENOMIC SURVEILLANCE AND DIAGNOSIS OF TICK-BORNE DISEASE *BABESIA MICROTI*

Mary Lynn Baniecki Baniecki¹, Jade Moon², Kian Sani³, Jacob E. Jacob¹, Lisa Freimark¹, Pardis C. Sabeti¹

¹The Broad Institute of Massachusetts Institute of Technology and Harvard, Cambridge, MA, United States, ²Harvard University, Cambridge, MA, United States, ³Harvard University, Cambridge, MA, United States

4:45 p.m.

1339

NOVEL IMMUNO-DOMINANT *BABESIA MICROTI* ANTIGENS THAT INDUCE PROTECTIVE IMMUNITY AGAINST PARASITE CHALLENGE IN MICE

Nitin K. Verma¹, Edward E. Essuman¹, Hong Zheng¹, Ankit Puri¹, Peter J. Krause², Sanjai Kumar¹

¹CBER/Food and Drug Administration, Silver Spring, MD, United States, ²Yale School of Public Health and Yale School of Medicine, New Haven, CT, United States

5 p.m.

1340

SCRUB TYPHUS NO LONGER RESTRICTED TO THE TSUTSUGAMUSHI TRIANGLE

Allen L. Richards

Naval Medical Research Center, Silver Spring, MD, United States

Symposium 114

Etiology and Prevention of Neonatal Infections

Convention Center - Room 341/342 (Level 300)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

Newborn deaths account for more than 40% of all mortality in young children. One-quarter of these deaths are attributable to infection. Since 2000, substantive research has been conducted in South Asia and sub-Saharan Africa to investigate the etiologies, prevention and management of neonatal infection. This symposium will include four speakers who will present the results of recent studies that have evaluated the etiology of community-acquired neonatal sepsis, strategies for the prevention of nosocomial infections in newborns, and community-based strategies for the treatment of neonatal infections.

CHAIR

Pavani K. Ram

University at Buffalo, Buffalo, NY, United States

David H. Hamer

Boston University, Center for International Health and Development, Boston, MA, United States

4 p.m.

AETIOLOGY OF NEONATAL SEPSIS IN SOUTH ASIA (ANISA) MAIN STUDY RESULTS

Samir K. Saha

Child Health Research Foundation, Dhaka, Bangladesh

4:15 p.m.

ANTIMICROBIAL RESISTANCE IN NEWBORN INFECTIONS

Grace Chan

Harvard Medical School, Boston, MA, United States

4:30 p.m.

CHLORHEXIDINE VERSUS DRY CORD CARE: WHERE AND WHEN?

David H. Hamer

Boston University, Center for International Health and Development, Boston, MA, United States

4:45 p.m.

OPPORTUNITIES FOR INFECTION PREVENTION AND MANAGEMENT IN NEWBORNS

Pavani Ram

University at Buffalo, Buffalo, NY, United States

Symposium 115

Follow-Up Tools for Surgical Quality Assurance

Convention Center - Room 343/344 (Level 300)

Tuesday, November 7, 4 p.m. - 5:45 p.m.

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. Quality 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. For single-disease programs, like lymphatic filariasis or trachoma, low-income countries face challenges in developing their surgical capacity on their own. Addressing the global surgery burden requires collaboration among organizations and partners working in different disciplines to join together to meet the need of quality 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 and ensure surgical quality and readiness to explore opportunities for future collaboration between these two areas. Topics include an overview of the comprehensive activities conducted to assure trichiasis surgery quality in Tanzania, lessons learned from supportive supervision activities related to trichiasis surgery to ensure surgical quality, the Surgical Society of Ethiopia's experience with the hydrocele surgery follow-up tool, and experiences from Burkina Faso and Cameroon where the hydrocele surgery follow-up tool was adapted and used. Together, these presentations underscore the challenges and opportunities for quality surgery and provide a platform for integration across disease-specific programs to improve surgical care globally.

CHAIR

Emily W. Gower
University of North Carolina, Helen Keller International, Chapel Hill, NC, United States

Zeina Sifri
Helen Keller International, Washington, DC, United States

4 p.m.

FOLLOW-UP TOOLS TO ENSURE TT SURGICAL QUALITY IN TANZANIA

Jen Harding
Helen Keller International, Dar es Salaam, United Republic of Tanzania

4:20 p.m.

SUPPORTIVE SUPERVISION EXPERIENCES FROM THE MMDP PROJECT COUNTRIES WITH TT SURGEON TRAINING

Whitney Goldman
Helen Keller International, Washington, DC, United States

4:40 p.m.

FOLLOW-UP OF HYDROCELE SURGERY QUALITY OUTCOMES: THE EXPERIENCE OF THE SURGICAL SOCIETY OF ETHIOPIA

Aduaalem Deneke
Surgical Society of Ethiopia, Addis Ababa, Ethiopia

5 p.m.

EXPERIENCES FROM BURKINA FASO AND CAMEROON: QUALITY ASSURANCE USING THE HYDROCELE SURGERY FOLLOW-UP TOOL

Adama Guira
Ministry of Health, Kadiogo, Burkina Faso

Special Session 116

Speed-Networking with the Experts

Hilton - Holiday Ballroom 1 (East Building, Second Floor)

Tuesday, November 7, 5 p.m. - 6:45 p.m.

The fifth annual speed-networking session is organized by the five ASTMH subgroups: ASTMH Committee on Global Health (ACGH), the American Committee on Clinical Tropical Medicine and Travelers' Health (ACCTMTH/Clinical Group), the American Committee of Medical Entomology (ACME), the American Committee on Arthropod-Borne Viruses (ACAV) and the American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP). The session is designed to facilitate interactions between senior scientists, physicians and trainees in an informal setting in order to provide an array of important information 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.

Please note that this session is limited to those who pre-registered for the event.

CHAIR

Nikos Vasilakis (ACAV)
University of Texas Medical Branch, Galveston, TX, United States

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

Ryan Carroll (ACGH)
Massachusetts General Hospital, Boston, MA, United States

Janine Danko (Clinical Group - ACCTMTH)
Walter Reed Military Medical Center, Silver Spring, MD, United States

Richard Davis (ACMCIP)
University of Iowa, Iowa City, IA, United States

Scott Huang (ACME)
Kansas State University, Manhattan, KS, United States

Diana Ortiz (ACME)
Westminster College, New Wilmington, PA, United States

Plenary Session 117

Plenary Session III: Commemorative Fund Lecture

Convention Center - Ballroom III (Level 400)

Tuesday, November 7, 6:15 p.m. - 7 p.m.

The Commemorative Fund Lecture is presented annually by an invited senior researcher resident in the tropics.

CHAIR

Patricia F. Walker

University of Minnesota and HealthPartners Travel and Tropical Medicine Center, St. Paul, MN, United States

COMMEMORATIVE FUND LECTURE



Jane Cardosa, DPhil
Chief Scientific Officer
Sentinext Therapeutics
Penang, Malaysia and
Founding Director, Institute of Health &
Community Medicine
Sarawak, Malaysia

Dr. Jane Cardosa completed a bachelor's degree at Princeton University in 1974, an M.Phil. at Columbia University in New York in 1975 and a D.Phil. at Oxford University in 1984. She has extensive experience conducting research in developing countries and has combined basic research with translational research in Penang and in Sarawak, Malaysia. She has also been actively involved in disease surveillance activities, especially for dengue, Japanese encephalitis and enterovirus 71, as well as for other emerging diseases. Dr. Cardosa has served on a number of international scientific boards and committees, using the insight she developed from working in developing countries to address global health problems. Among others she has been a member of the WHO Advisory Group on Dengue and other Flavivirus Vaccines, the Scientific Board of the Bill & Melinda Gates Foundation initiative, Grand Challenges in Global Health, and the Scientific Advisory Board of the Grand Challenges Canada. In February 2009, she had the honor of giving a Tanner Lecture on Emerging Infectious Diseases on the occasion of the 500th anniversary of Brasenose College, Oxford University. Dr. Cardosa is now retired from academic service and is committed to developing novel vaccines needed by children in developing countries. She is Chief Scientific Officer of Sentinext Therapeutics, a biotechnology startup based in Penang, Malaysia, and is currently deeply involved in overseeing the manufacture of a Virus-Like Particle (VLP) vaccine for enterovirus 71, a virus that causes large outbreaks in the Asia Pacific during which there is significant mortality and morbidity, including encephalitis and flaccid paralysis. A phase I clinical trial is planned for mid-2017.

Special Session 118

Minutes to Die Documentary Film

Convention Center - Ballroom I (Level 400)

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

From a Kenyan hospital to a rice paddy in India, victims of venomous snakebites are the faces of death and disability of a staggeringly widespread global crisis the world knows little about. The documentary *Minutes to Die* takes viewers to the homes and hospital beds of snakebite victims, to labs where scientists are working to manufacture antivenom and develop additional antidotes, to meetings of public health officials from the World Health Organization. Unpacking the limitations of rural medical infrastructure, the economic challenges of antivenom, and the financial devastation to the families of snakebite victims—who are mostly agricultural workers and children—the film makes clear that this health issue is also very much an issue of poverty, inequity, and social justice. *Minutes to Die* is directed by James Reid and funded by the Lillian Lincoln Foundation. The 62-minute film will be followed by a panel discussion.

7:15 p.m.

INTRODUCTION

James Reid

Director, *Minutes to Die* Documentary Film

7:30 p.m.

MINUTES TO DIE DOCUMENTARY FILM

8:30 p.m.

PANEL DISCUSSION

Bernadette Abela-Ridder

World Health Organization, Geneva, Switzerland

David Williams

Global Snakebite Initiative, Melbourne, Australia

Symposium 118A

Harvey, Irma and Maria: Direct Impacts and Global Health Implications of Climate Change and Extreme Weather Events

Convention Center - Ballroom II (Level 400)

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

Recent hurricanes Harvey, Irma and Maria resulted in hundreds of deaths, tens of thousands of people with lost homes and property damage, and billions of dollars of economic loss in the Caribbean and southern United States. These are but three of the extreme weather events noted in 2017, which also saw numerous typhoons in the Pacific Region and extreme drought in the Western Horn of Africa. Scientific data increasingly link extreme weather events, including unprecedented summer warmth, forest fires, drought, flooding, hurricanes/typhoons and tornados to global warming as a result of greenhouse gas accumulation, noting that recent years are consistently among the warmest on record. In this special symposium, we will hear from front-line health workers regarding their efforts to monitor and mitigate the health impacts of these extreme weather events as well as explore the greater global health implications of climate change

Wednesday, November 8

Registration

Convention Center - Pratt Street West Lobby (Level 300)
Wednesday, November 8, 7 a.m. - 5 p.m.

Speaker Ready Room

Convention Center - Room 336 (Level 300)
Wednesday, November 8, 7 a.m. - 5 p.m.

TropStop- Student/Trainee Lounge

Convention Center - Pratt Street West Lobby Foyer (Level 300)
Wednesday, November 8, 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 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.

Meeting Sign-Up Room

Hilton - Stone Room and Chase Room (West Building, Third Floor)
Wednesday, November 8, 7 a.m. - 10 p.m.

ASTMH Past Presidents Meeting

Hilton - Holiday Ballroom 1 (East Building, Second Floor)
Wednesday, November 8, 7 a.m. - 8 a.m.

Diploma Course Certification Committee Meeting

Hilton - Johnson B (East Building, First Floor)
Wednesday, November 8, 7 a.m. - 8 a.m.

Scientific Program Committee Meeting

Hilton - Key Ballroom 7/8 (West Building, Second Floor)
Wednesday, November 8, 7 a.m. - 8 a.m.

Press Room

Convention Center - Room 330 (Level 300)
Wednesday, November 8, 8 a.m. - 5 p.m.

Burroughs Wellcome Fund/ASTMH Fellowship Committee Meeting

Hilton - Johnson A (East Building, First Floor)
Wednesday, November 8, 8 a.m. - 10 a.m.

Scientific Session 119

Malaria: Advances in Modeling and Technology for Malaria

Convention Center - Ballroom I (Level 400)
Wednesday, November 8, 8 a.m. - 9:45 a.m.

CHAIR

Katelyn A. Walzer
Duke University, Durham, NC, United States

Oliver J. Watson
Imperial College London, MRC Centre for Outbreak Analysis and Modelling, London, United Kingdom

8 a.m.

1341

A SYSTEMIC FUNCTIONAL ANALYSIS OF THE PHOSPHOINOSITIDE METABOLIC PATHWAY IN *PLASMODIUM FALCIPARUM*

Angana Mukherjee, Dominic Gagnon, Zeinab Ebrahimzadeh, Dave Richard
Centre for Infectious Diseases and Immunology, Laval University, Quebec, QC, Canada

8:15 a.m.

1342

CAPTURING DIFFERENTIAL PROTEIN TURNOVER DYNAMICS IN ARTEMISININ RESISTANT *PLASMODIUM FALCIPARUM* USING PULSE-SILAC

Tuo Yang, Simon Cobbold, Stanley C. Xie, Leann Tilley
The University of Melbourne, Melbourne, Australia

8:30 a.m.

1343

USING SINGLE-CELL TRANSCRIPTOMICS TO ELUCIDATE SEXUAL COMMITMENT AND DIFFERENTIATION IN *PLASMODIUM FALCIPARUM*

Katelyn A. Walzer, Liane Y. Emerson, Danielle Kubicki, David L. Corcoran, Jen-Tsan Ashley Chi
Duke University, Durham, NC, United States

(ACMCIP Abstract)

8:45 a.m.

1344

CHARACTERIZING THE POTENTIAL BIAS WITHIN GENOMIC TOOLS FOR INFERRING CHANGES IN *PLASMODIUM FALCIPARUM* TRANSMISSION INTENSITIES

Oliver J. Watson, Robert Verity, Lucy Okell, Azra Ghani
MRC Centre for Outbreak Analysis and Modelling, Imperial College London, London, United Kingdom

9 a.m.

1345

THE CONSEQUENCES OF CENSORING NEW INFECTIONS WHEN DERIVING ANTIMALARIAL EFFICACY AGAINST UNCOMPLICATED *P. FALCIPARUM* MALARIA

Prabin Dahal, on behalf of the WWARN Methods Study Group
WorldWide Antimalarial Resistance Network, Oxford, Oxford, United Kingdom

9:15 a.m.

1346

SINGLE CELL GENOMICS OF MALARIA INFECTIONS

Simon G. Trevino¹, Standwell Nkhoma², Shalini Nair¹, Timothy Anderson¹, Karla Moncada³, Benjamin Daniel³, **Ian H. Cheeseman¹**

¹Texas Biomedical Research Institute, San Antonio, TX, United States, ²Malawi-Wellcome-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ³UTHSCSA, San Antonio, TX, United States

(ACMCIP Abstract)

9:30 a.m.

1347

VARYING IMPACT OF MALARIA INTERVENTIONS AT DISTRICT LEVEL - IMPLICATIONS OF A MATHEMATICAL MODEL FOR STRATEGIC PLANNING

Manuela Runge¹, Emilie Pothin¹, Renata Mandike², Ally Mohamed², Susan Rumisha³, Fabrizio Molteni¹, Tom Smith¹, Christian Lengeler¹

¹Swiss Tropical and Public Health Institute; University of Basel, Basel, Switzerland, ²Ministry of Health, Community Development, Gender, Elderly and Children, Dar es Salaam, United Republic of Tanzania, ³National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

Symposium 120

Quantifying Immunity to Malaria

Convention Center - Ballroom II (Level 400)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

Understanding the human immune response to malaria has been challenging due to high variation in responses between individuals. Although immune responses are observed following infection, there is no consistent immune signature of infection or protection. Both the high antigenic diversity of malaria proteins as well as the within-infection antigenic variation of proteins leads to complexity in the immune response. As a result of the lack of conclusive data on the development of immune responses, mathematical models have traditionally incorporated immunity in a fairly simple manner, often ignoring any variation in immune responses among individuals. With the advent of more sophisticated genomic techniques to measure signatures of immunity, a more finely tuned incorporation of immunity into models may soon be possible. This symposium will bring together malaria immunologists and mathematical modelers to present the current state of the field and to address the quantification of immunity to malaria. They will discuss how best to include these measures in mathematical models, focusing on what features are likely essential and what aspects can safely be ignored. The symposium will focus on *Plasmodium falciparum* malaria, the deadliest of the human malaria species. Types of modeling considered will span various scales from within host population dynamics to those of epidemiological patterns of disease transmission but will focus on models where immune dynamics can quantitatively be incorporated. The goal of the symposium is to provide engagement across disciplines on the role of quantification of immune responses for use in modeling.

CHAIR

Lauren M. Childs
Virginia Tech, Blacksburg, VA, United States

Caroline Buckee
Harvard T.H. Chan School of Public Health, Boston, United States

8 a.m.

ANTIBODY CORRELATES OF PROTECTION FROM CONTROLLED HUMAN MALARIA INFECTIONS

James Tuju

Kenya Medical Research Institute - Wellcome Trust, Kilifi, Kenya

8:25 a.m.

DISENTANGLING ANTIBODY RESPONSES TO MALARIA: MARKERS OF EXPOSURE OR MARKERS OF IMMUNITY?

Isabel Rodríguez-Barraquer

University of California San Francisco, San Francisco, United States

8:50 a.m.

MODELLING THE ACQUISITION OF CLINICAL IMMUNITY TO FALCIPARUM MALARIA: PARASITE DIVERSITY, ANTIBODIES AND CROSS-REACTIVITY

Michelle Gatton

University of Technology, Brisbane, Australia

9:15 a.m.

INFERENCE OF IMMUNE RESPONSE FROM POPULATION DATA MUST ACCOUNT FOR COHORT SELECTION ON INDIVIDUAL CHARACTERISTICS

Gabriela Gomes

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 121

School-Based Malaria Interventions: Impact on Health and Transmission

Convention Center - Ballroom III (Level 400)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

School-aged children have the highest burden of malaria infection in many malaria-endemic regions but are not specifically targeted by current malaria control interventions. Malaria has profound effects on the health and educational achievement of this group. Increasing evidence suggests that school-aged children also play a significant role in maintaining malaria transmission in communities. Targeting interventions to schools may be an effective and sustainable strategy to decrease the burden of malaria in school-aged children, and in the wider community. This symposium will address the public health impact of school-based interventions to treat malaria and will also explore the possible impact on transmission. The speakers will present the most recent data from school-based interventions that assess the benefit of treating malaria on health and educational achievement and evidence from epidemiological studies and a clinical trial that identify school-aged children as a major reservoir of malaria transmission. The final speaker will integrate the results of these and other studies into a systematic review that identifies key features that determine the success or failure of a wide range of school-based interventions. The panel will discuss the future directions for school-based interventions to improve health and reduce malaria transmission.

CHAIR

Miriam K. Laufer

University of Maryland, Institute for Global Health, Baltimore, MD, United States

Lauren M. Cohee

University of Maryland Institute for Global Health, Baltimore, MD, United States

8 a.m.

MALARIA IN SCHOOL-AGE CHILDREN: IMPACT ON HEALTH AND EDUCATION

Don P. Mathanga

University of Malawi College of Medicine, Blantyre, Malawi

8:20 a.m.

BEYOND HEALTH OUTCOMES: RESULTS OF RECENT TRANSMISSION STUDIES IN BURKINA FASO AND REVIEW OF THE EVIDENCE SUPPORTING THE SIGNIFICANT ROLE FOR SCHOOL-AGE CHILDREN IN TRANSMISSION

Bronner Gonçlaves

London School of Hygiene & Tropical Medicine, London, United Kingdom

8:40 a.m.

EVALUATION OF THE COMMUNITY-LEVEL IMPACT OF IPT FOR MALARIA IN SCHOOLCHILDREN: RESULTS FROM THE START-IPT TRIAL IN UGANDA

Catherine Maiteki-Sebuguzi

Uganda Ministry of Health, National Malaria Control Programme, Kampala, Uganda

9 a.m.

WHERE DO WE GO FROM HERE? SYSTEMATIC REVIEW OF SCHOOL-BASED MALARIA TREATMENT INTERVENTIONS AND KEY FACTORS IN DESIGNING FUTURE INTERVENTIONS

Lauren M. Cohee

University of Maryland Institute for Global Health, Baltimore, MD, United States

Symposium 122

Translational Research Initiatives in the Practice of Travel Medicine

Convention Center - Ballroom IV (Level 400)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

Military personnel are a subset of travelers who are uniquely vulnerable to infectious disease threats during overseas deployment. Translational research efforts at the Uniformed Services University Infectious Diseases Clinical Research Program (IDCRP) focus on research gaps related to the prevention and treatment of infectious disease threats in the deployment/travel setting. Travelers' diarrhea (TD), the most common illness encountered by deployed forces, continues to be met with challenges in providing optimal care while balancing safety issues of antibiotic use. Furthermore, diagnostics in this area are often absent in the deployment setting, and rely on WWII technologies. Culture-independent methods are rapidly growing in promise, but practicable implementation of these methods is still met with challenges. In the area of vector-borne disease, dengue, Chikungunya and Zika infections are emerging and re-emerging threats that currently lack methods of exposure assessment which are critical to inform the burden of disease and identify the effectiveness of individual and population-based vector control measures. Lastly, across the spectrum of travel and deployment health delivery, outcomes research is becoming ever more important in the effort to transition the evidence-based medicine knowledge that has been gained into individual and population health interventions that work. In this symposium, speakers will review recently published and unpublished data from translational research initiatives conducted in the deployment setting by the IDCRP in partnership with military

sites outside the continental United States. The first speaker will review the performance characteristics of the TaqMan Array PCR Card assay for detecting TD enteropathogens from stool smears obtained on Whatman FTA Elute cards and how this may change the future of diagnostics in forward deployed settings. The next talk will focus on clinical practice guidelines that were developed using the results of a TD treatment trial (TrEAT-TD) which lays the groundwork for future implementation science initiatives. Results from a prospective cohort study evaluating the seroprevalence of antibodies to *Anopheles* and *Aedes* specific salivary gland antigens, following group deployment to destinations in Central/South America and Africa will be presented as a potential tool necessary for exposure assessment and eventual outcomes necessary to evaluate vector-borne disease risk reduction. The final speaker will present research related to knowledge, attitudes and practices of travel medicine providers, the impact of knowledge gaps on disease burden and cost and provide a framework for which future implementation science initiatives in travel medicine could be considered.

CHAIR

Tahaniyat Lalani

Uniformed Services University of the Health Sciences, Infectious Disease Clinical Research Program, Rockville, MD, United States

David Tribble

Uniformed Services University of the Health Sciences, Infectious Disease Clinical Research Program, Bethesda, MD, United States

8 a.m.

PERFORMANCE CHARACTERISTICS OF A FILTER PAPER BASED STOOL COLLECTION METHOD AND THE TAQMAN ARRAY CARD PCR ASSAY FOR DETECTION OF PATHOGENS ASSOCIATED WITH TRAVELERS' DIARRHEA

Michele D. Tisdale

Infectious Disease Clinical Research Program, Portsmouth, VA, United States

8:20 a.m.

DEVELOPMENT AND IMPLEMENTATION OF DEPLOYMENT HEALTH GUIDELINES FOR MANAGEMENT OF ACUTE DIARRHEA AND GASTROENTERITIS

Mark S. Riddle

Naval Medical Research Center, Silver Spring, MD, United States

8:40 a.m.

UTILITY OF BIOMARKERS FOR DETERMINING *Aedes* AND *Anopheles* spp. EXPOSURE DURING DEPLOYMENTS TO HIGH-RISK REGIONS FOR MALARIA OR ARBOVIRAL INFECTIONS

Tahaniyat Lalani

Infectious Disease Clinical Research Program, Portsmouth, VA, United States

9 a.m.

DEPLOYMENT AND TRAVEL HEALTH: KNOWLEDGE, ATTITUDES, PRACTICE AND OUTCOMES STUDY (KAPOS)

Patrick Hickey

Uniformed Services University, Bethesda, MD, United States

Scientific Session 123

Zika II

Convention Center - Room 318/319/320 (Level 300)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

CHAIR

Lenore Pereira

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

Tyler M. Sharp

Centers for Disease Control and Prevention, San Juan, PR, United States

8 a.m.

1348

POTENTIAL FOR ZIKA VIRUS TRANSMISSION FROM MATERNAL CIRCULATION TO FETAL BLOOD STREAM BY A PARAPLACENTAL ROUTE ACROSS AMNIOCHORIONIC MEMBRANE AND FETAL SKIN

Matthew Pettitt¹, Takako Tabata¹, Daniela Michlmayr², Henry Puerta-Guardo², Eva Harris², Lenore Pereira¹

¹University of California San Francisco, San Francisco, CA, United States,

²University of California Berkeley, Berkeley, CA, United States

8:15 a.m.

1349

RAPID DEVELOPMENT OF A REPLICATING VIRAL RNA VACCINE FOR ZIKA VIRUS

Jesse Erasmus, Amit P. Khandhar, Brian Granger, Jacob Archer, Christopher Fox, Steven G. Reed, Rhea Coler, Dan Stinchcomb, Neal Van Hoesen
Infectious Disease Research Institute, Seattle, WA, United States

8:30 a.m.

1350

DIFFERENCES IN PREVALENCE OF SYMPTOMATIC ZIKA VIRUS INFECTION BY AGE AND SEX

Matthew J. Lozier¹, Rachel Burke², Juan Lopez³, Veronica Acevedo¹, Manuel Amador¹, Jennifer S. Read¹, Amanda Jara⁴, Stephen H. Waterman¹, Roberto Barrera¹, Jorge Muñoz-Jordan¹, Brenda Garcia-Rivera⁵, Tyler M. Sharp¹
¹Centers for Disease Control and Prevention, San Juan, Puerto Rico, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Florida State University, Tallahassee, FL, United States, ⁴University of Georgia, Athens, GA, United States, ⁵Puerto Rico Department of Health, San Juan, Puerto Rico

8:45 a.m.

1351

INCIDENCE OF ZIKA VIRUS INFECTION AND EFFECT OF PRE-EXISTING DENGUE VIRUS EXPOSURE ON ZIKA VIRUS INFECTION AND DISEASE IN A PEDIATRIC COHORT IN NICARAGUA

Angel Balmaseda¹, Damaris Collado², Juan Carlos Mercado¹, José Victor Zambrana², Sergio Ojeda², Nery Sanchez², Douglas Elizondo², Josefina Coloma³, Lionel Gresh², Leah Katzelnick³, Raquel Burger-Calderon³, Aubree Gordon⁴, Guillermina Kuan⁵, Eva Harris³

¹Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ²Sustainable Sciences Institute, Managua, Nicaragua, ³Division of Infectious Diseases and Vaccinology, School of Public Health, University of California Berkeley, Berkeley, CA, United States, ⁴Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ⁵Health Center Sócrates Flores Vivas, Ministry of Health, Berkeley, CA, United States

9 a.m.

1352

ANALYZING THE IMMUNE RESPONSE TO ZIKA VIRUS USING REPORTER VIRUS PARTICLES, ANTI-ZIKV ANTIBODIES AND EPI TOPE MAPPING

Chuck Whitbeck¹, Anu Thomas¹, Aubrey Bryan¹, Lewis J. Stafford¹, Ross Chambers¹, Gopal Sapparapu², James E. Crowe Jr², Edgar Davidson¹, Benjamin J. Doranz¹

¹Integral Molecular, Inc., Philadelphia, PA, United States, ²Vanderbilt University, Nashville, TN, United States

9:15 a.m.

1353

ZIKA VIRUS CLINICAL ISOLATES REPLICATE IN HUMAN PROSTATE CELLS AND ORGANOID

Jennifer L. Spencer, Anismrita Lahon, Linda L. Tran, Ravi P. Arya, Megan B. Vogt, David R. Rowley, Jason T. Kimata, Rebecca R. Rico-Hesse
Baylor College of Medicine, Houston, TX, United States

9:30 a.m.

1354

REPLICATION OF ZIKA VIRUS AND CYTOMEGALOVIRUS IN FIRST-TRIMESTER HUMAN PLACENTAS SHOWS DIVERGENT PATTERNS OF INFECTION AND PATHOGENESIS THAT COULD AFFECT TRANSMISSION

Lenore Pereira¹, Takako Tabata¹, Matthew Pettitt¹, Henry Puerta-Guardo², Daniela Michlmayr², Eva Harris²

¹University of California San Francisco, San Francisco, CA, United States,

²University of California Berkeley, Berkeley, CA, United States

Symposium 124

Medical Education and Public Health Challenges in Iraq

Convention Center - Room 321/322/323 (Level 300)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

Modernization of health and education systems in Iraq face many challenges – political instability, psychological trauma and shifting populations as a result of conflict, rebuilding of medical infrastructure, privatization of health care services and rapid growth. All this in the setting of an economy that is highly dependent on the price of oil. Since 1927 Iraq has established 23 medical schools, with many excellent physicians working in national and regional facilities. However, medical education has focused on producing independent primary care physicians, thus providing limited opportunities to educate students on the full spectrum of public health careers and interdisciplinary teams that are now in such tremendous demand all over the world– health services management, specialty medicine, health policy and social sciences. With support of the U.S. government, the broader international community and non-profit organizations such as the Washington, DC-based IREX (International Research and Exchange), the Al Kindy College of Medicine at the University of Baghdad has initiated significant outreach activities designed to help modernize medical education structure and simultaneously to develop new research and teaching collaborations outside of Iraq. Thus this symposium will provide what is believed to be the first opportunity for Iraqi faculty and administration to speak directly to ASTMH and provide first-hand perspectives on medical education, public health priorities and the prospects for establishment of mutually beneficial international collaboration in global health and clinical tropical medicine.

CHAIR

Michael A. Kron

Medical College of Wisconsin, Milwaukee, WI, United States

8 a.m.
PUBLIC HEALTH PRIORITIES AND MEDICAL SCHOOL ADMINISTRATION IN IRAQ

Mohammed A. Alqortasi
Al Kindy College of Medicine, University of Baghdad, Baghdad, Iraq

8:20 a.m.
MEDICAL EDUCATION AND CURRICULUM IN IRAQ

Ekhlas K. Hameed
Al Kindy College of Medicine, University of Baghdad, Baghdad, Iraq

8:40 a.m.
MEDICAL SCHOOLS GRADUATE COMPETENCIES IN RESPONSE TO WOMEN AND CHILD HEALTH PRIORITY NEEDS

Taghreed Alhaidari
Al Kindy College of Medicine, University of Baghdad, Baghdad, Iraq

9 a.m.
SURGERY AND MEDICAL EDUCATION IN IRAQ

Ibtesam Khalid Al-Shadidi
Al Kindy College of Medicine, University of Baghdad, Baghdad, Iraq

Symposium 125

***Wolbachia* for Biocontrol of Arboviruses**

Convention Center - Room 324/325/326 (Level 300)
Wednesday, November 8, 8 a.m. - 9:45 a.m.

This symposium brings together experts in the field application of *Wolbachia* to achieve *Aedes* sp. mosquito population suppression, or replacement with *Wolbachia* infected mosquitoes, with an overarching goal of preventing arbovirus disease transmission. This symposium, which will showcase laboratory science leading to community level field trials and measurements of disease impact, is timely given the global backdrop of endemic dengue, epidemic Zika and emergent Yellow Fever transmission. The session will begin with an update on the expansion of the Eliminate Dengue Program and progress in the deployment of *Wolbachia* into *Ae. aegypti* mosquito populations and describe clinical trial methods, with a worked example, to enable the impact of novel mosquito control strategies on clinical epidemiology to be measured. Following will be a description of community and stakeholder engagement activities and the entomological and epidemiological outcomes of *Wolbachia* deployments in the city of Yogyakarta, Indonesia. The session will explain the deployment of *Wolbachia*-infected male mosquito releases for the suppression of the *Aedes albopictus* population numbers in China, as well as the application of *Wolbachia*-infected male mosquito releases for the suppression of the *Aedes albopictus* and *Aedes aegypti* populations in the U.S. The symposium will be of interest to a wide audience but particularly to those working in the field of public health, arbovirology and entomology.

CHAIR

Cameron Simmons
Monash University, Clayton, Australia

Amy Morrison
University of California Davis, Davis, CA, United States

8 a.m.
THE ELIMINATE DENGUE PROGRAM

Cameron Simmons
Monash University, Clayton, Australia

8:15 a.m.
WOLBACHIA DEPLOYMENTS IN YOGYAKARTA, INDONESIA; ENTOMOLOGY AND PUBLIC HEALTH

Adi Utarini
University of Gadjha Mada, Yogyakarta, Indonesia

8:30 a.m.
WOLBACHIA AS A BIOLOGICAL PESTICIDE TO REDUCE POPULATIONS OF ARBOVIRUS VECTOR MOSQUITOES

Steve Dobson
University of Kentucky, Lexington, KY, United States

8:55 a.m.
SCALE UP FROM FIELD TRIAL TO OPERATION: THE COMBINED IIT/SIT APPROACH TO ELIMINATE THE PRIMARY DENGUE VECTOR *Aedes albopictus* IN CHINA

Xi Zhiyong
University of Michigan, Ann Arbor, MI, United States

Symposium 126

Chagas Disease: Regional Differences in Clinical Research and Patient Care

Convention Center - Room 327/328/329 (Level 300)
Wednesday, November 8, 8 a.m. - 9:45 a.m.

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 for Chagas disease research and knowledge production. However, even within the Latin American region, procedures and algorithms can vary greatly. Therefore, the symposium will focus mainly on regional differences in the management of patients with cardiac disease and the dynamic of congenital *T. cruzi* transmission and, in addition, will provide an update on research and clinical trials. Encompassing different themes and issues within this broader scope, the symposium will raise the debate regarding management of patients with cardiac disease due to Chagas, describing health workers' approach to the treatment of cardiomyopathy. It will provide an update of current clinical trials testing new regimens of benzimidazole in monotherapy or in combination, as well as a new compound of shorter regimen than the current therapies. It will also present the dynamics of congenital transmission, taking regional differences into particular account, with an emphasis on how the variable lineage of *T. cruzi* relates to differences across Latin America, based on the results of recent research. Finally, the symposium will present a proposal for an algorithm to assist health workers in the decision-making process for how to assess response to etiological treatment, since no practical algorithm is currently available in national guidelines.

CHAIR

Sergio Sosa Estani
Drugs for Neglected Diseases initiative - Latin America, Rio de Janeiro, Brazil

Joaquim Gascon
Universitat de Barcelona, Barcelona, Spain

8 a.m.
REAL-WORLD MANAGEMENT OF HEART FAILURE IN CHAGAS DISEASE: INSIGHTS FROM THE BENEFIT TRIAL

Carlos Morillo
Alberta Health Services, Calgary, AB, Canada

8:20 a.m.
UPDATE ON CURRENT CLINICAL TRIALS FOR IMPROVING ETIOLOGICAL TREATMENT OF CHAGAS DISEASE

Joaquim Gascon
Institut de Salut Global de Barcelona, Universitat de Barcelona, Barcelona, Spain

8:40 a.m.
REGIONAL DIFFERENCES IN CONGENITAL TRANSMISSION OF *T. CRUZI* IN LATIN AMERICA

Pierre Buekens
Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA, United States

9 a.m.
DECISION-MAKING ALGORITHM FOR THE EVALUATION OF THERAPEUTIC RESPONSE IN THE HEALTH CARE SYSTEM

Yanina Sguassero
Centro Rosarino de Estudios Perinatales, Rosario, Argentina

Symposium 127

Melioidosis-An Emerging Threat to Low-and-Middle-Income Countries

Convention Center - Room 331/332 (Level 300)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

Melioidosis is a neglected tropical infectious disease that is a potentially serious public health concern in many LMIC nations. Infections are transmitted by soil aerosols and water that are contaminated with *Burkholderia pseudomallei*, a gram-negative soil bacterium. A lack of awareness among health care personnel contributes to underreporting of cases in several endemic countries, and few countries have reliable long-running melioidosis surveillance programs. A recent disease incidence model predicted 165,000 cases and 89,000 deaths per year, while mortality rates can be as high as 70% in some countries. The highest risk zones for melioidosis include Southeast Asia, South Asia, tropical Australia, Western sub-Saharan Africa and South America where *B. pseudomallei* is likely to survive in the soil. Further, the incidence of Type 2 diabetes, which is a major risk factor for melioidosis, is also soaring in developing countries. A long and costly administration of antibiotics is required for treatment, and chronic infections have a poor prognosis. This symposium will address current status and gaps in the understanding of *B. pseudomallei* genomics, pathogenesis, resistance and diagnostic/prognostic methods.

CHAIR

Mohan Natesan
United States Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States

Enoka M. Corea
University of Colombo, Colombo, Sri Lanka

8 a.m.
PATHOGENESIS OF MELIOIDOSIS: FROM HUMAN IMMUNE RESPONSE PERSPECTIVE

Ganjana Lertmemongkolchai
Khon Kaen University, Khon Kaen, Thailand

8:20 a.m.
ANTIBIOTIC RESISTANCE MECHANISMS IN *BURKHOLDERIA PSEUDOMALLEI*

Herbert P. Schweizer
University of Florida, Gainesville, FL, United States

8:40 a.m.
LARGE-SCALE COMPARATIVE GENOMIC COMPARISONS OF *BURKHOLDERIA PSEUDOMALLEI* PROVIDE INSIGHTS INTO DIAGNOSTICS, HORIZONTAL GENE TRANSFER, ANTIMICROBIAL RESISTANCE AND VIRULENCE

Jason Sahl
Northern Arizona University, Flagstaff, AZ, United States

9 a.m.
HOST AND PATHOGEN SPECIFIC BIOMARKERS FOR MELIOIDOSIS MANAGEMENT

Mohan Natesan
United States Army Research Institute of Infectious Diseases, Frederick, MD, United States

Symposium 128

New Tools and Strategies for the Next Phase of the Global Filariasis Elimination Program

Convention Center - Room 337/338 (Level 300)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

The Global Program to Eliminate Lymphatic Filariasis (GPELF) is the largest public health intervention to date based on mass drug administration. More than 6 billion doses of treatment were provided to hundreds of millions of people in more than 60 countries between 2000 and 2015. Many millions of people have been cured of their infections, and millions of cases of infection and disability have been prevented by this program. While this is an amazing record, global elimination of LF will not be achieved in a number of countries by the target date of 2020. Translational and operational research progress such as modified treatment strategies, improved diagnostics, and social science-guided improvement of compliance have the potential to help struggling countries to get on track for LF elimination. This symposium will consider the program's impressive accomplishments and ongoing challenges at this critical time and consider evidence-based options for improvement.

CHAIR

Gary J. Weil
Washington University School of Medicine, St. Louis, MO, United States

Taniawati Supali
University of Indonesia, Jakarta, Indonesia

8 a.m.
PROGRESS IN 2016 AND POTENTIAL ACHIEVEMENTS BY 2020 IN THE GLOBAL PROGRAM TO ELIMINATE LYMPHATIC FILARIASIS

Jonathan King
World Health Organization, Geneva, Switzerland

8:20 a.m.

ALTERNATIVE TREATMENT OPTIONS FOR LF ELIMINATION PROGRAMS: SEMIANNUAL MDA, "ALBENDAZOLE SEULE" AND IDA

Peter Fischer

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

8:40 a.m.

LET'S DO THE NUMBERS: A FRESH LOOK AT DIAGNOSTICS, HOTSPOTS, AND ENDPOINTS

Gary J. Weil

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

9 a.m.

STRATEGIES TO RE-ENERGIZE PROGRAMS AND INCREASE MDA COMPLIANCE

Alison Krentel

Bruyère Research Institute, Ottawa, ON, Canada

Symposium 129

How to Ensure the Efficacy of Drugs in Soil-Transmitted Helminth Control Programs?

Convention Center - Room 339/340 (Level 300)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

Soil-transmitted helminths (STHs) are a group of parasitic worms that infect millions of children in sub-tropical and tropical countries, resulting in malnutrition, growth stunting, intellectual retardation and cognitive deficits. To fight against STHs, preventive chemotherapy (PC) programs based on mass drug administration (MDA) with one of the benzimidazole (BZ) drugs, namely albendazole (ALB) or mebendazole (MEB), are currently implemented. While the laudable long-term aim is to eliminate STHs as a public health problem by 2020, there are three factors that could jeopardize the success of these programs. First, the therapeutic efficacy of the ALB and MEB differs across STH species. Both drugs are highly efficacious against *Ascaris lumbricoides*, but ALB is more efficacious against hookworms, and both drugs are unsatisfactory against *Trichuris trichiura* infections. Second, there is reliance on two drugs with the same mode of action, and hence the emergence of anthelmintic resistance (AR) as drug coverage expands may occur, as substantiated in veterinary medicine. Moreover, the development of AR against one benzimidazole drug would most likely be accompanied by poor anthelmintic drug efficacy of the other BZ drug. Third, there is a paucity of anthelmintic drugs that are both licensed and commercially available for the treatment of STH infections in humans. Thus, should AR against BZ drugs eventually emerge and spread, MDA-based control of STHs will be even more limited than at present with few acceptable alternative options. The Bill & Melinda Gates Foundation has therefore recently funded two projects, focusing on anthelmintic drug combinations and AR ("Starworms"). This symposium will present exciting new findings generated in the framework of these projects. The session will discuss how the efficacy of drugs in STH control programs could be ensured, and hence sustaining the success of PC programs to eliminate STHs as a public problem by 2020. To this end, there will be a brief introduction of both the rationale and the urgency of strategies to

mitigate the emergence of AR, and the need for diagnostic tools both to monitor drug efficacy and to detect early emergence of AR. Subsequently, the session will present an overview of both published and unpublished clinical trials evaluating the efficacy of alternative drugs and drug combinations against STHs. The symposium will also present the results from ongoing studies designed to validate diagnostic tools for the assessment of both drug efficacy and the emergency of AR in STH endemic countries where MDA programs are ongoing.

CHAIR

Bruno Levecke

Ghent University, Merelbeke, Belgium

Jennifer Keiser

Swiss Tropical and Public Health Institute, Basel, Switzerland

8 a.m.

HOW CAN WE ENSURE THE EFFICACY OF DRUGS IN SOIL-TRANSMITTED HELMINTH CONTROL PROGRAMS?

Bruno Levecke

Ghent University, Merelbeke, Belgium

8:15 a.m.

DOSE-FINDING OF IVERMECTIN IN PRESCHOOL AND SCHOOL-AGED CHILDREN INFECTED WITH *TRICHURIS TRICHIURA* IN CÔTE D'IVOIRE

Jean Coulibaly

University Félix Houphouët Boigny, Abidjan, Côte D'Ivoire

8:35 a.m.

EFFICACY OF DRUG COMBINATIONS AGAINST SOIL-TRANSMITTED HELMINTHS: AN UPDATE

Jennifer Keiser

Swiss Tropical and Public Health Institute, Basel, Switzerland

8:55 a.m.

COMPARISON OF KATO-KATZ THICK SMEAR, MINI-FLOTAC, FECPAKG2 AND QPCR FOR THE ASSESSMENT OF THE EFFICACY OF A SINGLE ORAL DOSE OF ALBENDAZOLE AGAINST SOIL-TRANSMITTED HELMINTHS

Johnny Vlamincx

Ghent University, Merelbeke, Belgium

9:15 a.m.

THE OCCURRENCE OF SS - TUBULIN POLYMORPHISMS ASSOCIATED WITH BENZIMIDAZOLE RESISTANCE IN SOIL-TRANSMITTED HELMINTHS

Nour Rashwan

McGill University, Montreal, Quebec, Canada

Symposium 130

Challenges and Opportunities of Conducting Clinical Trials in Pregnant Women and Future Infants in Resource-Limited Settings

Convention Center - Room 341/342 (Level 300)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

Conducting clinical trials in low and middle-income countries (LMICs) is essential to deliver new and improved medical interventions that are safe, effective, appropriate and accessible for the affected population. Pregnant women and their unborn children in LMICs are particularly vulnerable to a range of

infections that can lead to significant mortality and morbidity to mother and baby. There is a need to develop medical products to prevent and treat infection in pregnancy and that can be implemented effectively in LMICs. However, the systematic exclusion of pregnant women from clinical trials conducted by product developers, as well as the challenges (scientific, ethical, social, cultural) of conducting research in pregnant women limit the development, testing and approval of safe, affordable and effective products for pregnant women. Furthermore, such trials can be costly and of long duration where extended infant follow-up post-trial is included. There is a need to maximize the impact of research through collaboration and data sharing from individual trials conducted in pregnant women. This symposium focuses on the practical challenges faced and lessons learned by researchers conducting clinical trials in pregnant women in LMICs. The presentations will focus on malaria, HIV and Zika infection in pregnant women and will share practical experiences from sub-Saharan Africa (Malawi and Mozambique), Asia (Thailand) and South America (Brazil). The symposium will include a final discussion session to summarize recommendations on best practice for conducting clinical trials in pregnant women, including consideration of good participatory practices, ethical and social aspects, as well as how such research can best be conducted in a collaborative network (North and South). The symposium should be of interest to individuals and organizations dealing directly with clinical trials in LMICs and working in the field of maternal and child health.

CHAIR

Pauline Beattie
European and Developing Countries Clinical Trials Partnership (EDCTP), The Hague, Netherlands

Michael Turner
Wellcome Trust, London, United Kingdom

8 a.m.

REPRODUCTIVE HEALTH AND COMMUNITY ENGAGEMENT IN CLINICAL TRIALS

Khátia Munguambe
Universidade Eduardo Mondlane and Centro de Investigacao em Saude de Manhica (CISM), Maputo, Mozambique

8:20 a.m.

EFFECTS OF MALARIA-HIV CO-INFECTIONS ON MOTHER-TO-CHILD-TRANSMISSION OF HIV

Victor Mwapasa
Malawi College of Medicine, Blantyre, Malawi

8:40 a.m.

EFFECT OF MALARIA AND OTHER TROPICAL INFECTIONS ON MATERNAL AND CHILD HEALTH

Rose McGready
University of Oxford and Shoklo Malaria Research Unity, Mae Sot, Thailand

9 a.m.

SOCIAL, ETHICAL AND LEGAL IMPLICATIONS OF RESEARCH IN PREGNANT WOMEN DURING THE ZIKA OUTBREAK

Ruth Faden
Johns Hopkins University, Berman Institute of Biomedical Ethics, Baltimore, United States

Symposium 131

Acute Febrile Illness and Acute Encephalitis Surveillance in India in the Context of the Global Health Security Agenda: Unveiling Emerging Pathogens and Informing Disease Prioritization

Convention Center - Room 343/344 (Level 300)

Wednesday, November 8, 8 a.m. - 9:45 a.m.

Acute Febrile Illness (AFI) and Acute Encephalitis Syndrome (AES) are major public health syndromes in India that affect thousands of people every year. Despite advances in laboratory diagnostics, there are still gaps in understanding the burden, etiologic spectrum, and risk factors associated with these syndromes in India. CDC India, Government of India, Manipal University, and the National Institute of Mental Health and Neurosciences (NIMHANS), as part of Global Health Security, are collaborating to determine the specific causes of AFI and AES and to recommend data-driven interventions to reduce illness and mortality. This project, initiated in 2014, is currently being implemented in select districts in 14 states across India as an ongoing surveillance activity, identifying previously-undiagnosed fever and AES pathogens and providing new insights on the burden and geographical distribution of influenza, Japanese encephalitis, leptospirosis, scrub typhus, dengue, malaria, Kyasanur Forest Disease and more than 70 other pathogens. Public health impact and next steps for disease prioritization at the district, state and national level will be discussed during the symposium by leaders of the surveillance activities and Government of India leadership.

CHAIR

Kayla F. Laserson
Centers for Disease Control and Prevention, Delhi, India

Jagdish Prasad
Ministry of Health and Family Welfare, Delhi, India

8 a.m.

ACUTE ENCEPHALITIS SYNDROME SURVEILLANCE ACROSS INDIA

V. Ravi
National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore, India

8:20 a.m.

ACUTE FEVER ILLNESS (AFI) SURVEILLANCE ACROSS INDIA

Dr Govindakarnarvar Arunkumar
Manipal Centre for Virus Research, Manipal University, Manipal, India

8:40 a.m.

DEFINING AND REFINING RESEARCH PRIORITIES USING SURVEILLANCE DATA

Soumya Swaminathan
Indian Council of Medical Research, Delhi, India

9 a.m.

CHANGING DISEASE SURVEILLANCE: DETECT AND RESPONSE; GHSA IMPACT ON PUBLIC HEALTH IN INDIA

Akshay Chandra Dhariwal
National Centre for Disease Control, Delhi, India

Exhibit Hall Open

Convention Center - Swing Hall (Level 100)

Wednesday, November 8, 9:30 a.m. - 10:30 a.m.

Coffee Break

Convention Center - Swing Hall (Level 100)

Wednesday, November 8, 9:45 a.m. - 10:15 a.m.

Poster Session C Set-Up

Convention Center - Hall F and G (Level 100)

Wednesday, November 8, 9:45 a.m. - 10:15 a.m.

Get a Shot. Give a Shot.®

Convention Center - Pratt Street Lobby (Level 300)

Wednesday, November 8, 10 a.m. – 1 p.m.

Walgreens' Get a Shot. Give a Shot.® campaign has helped provide more than 20 million lifesaving vaccines to children in need around the world through the United Nations Foundation's Shot@Life campaign. Now, TropMed17 giving attendees an opportunity to give back to the global health communities we serve. Receive your annual flu shot and provide lifesaving vaccines to families in developing countries. Immunizations are one of the world's biggest public health success stories, but not all communities have the same access to vaccines.

Under the Net

Convention Center - Pratt Street Lobby (Level 300)

Wednesday, November 8, 10 a.m. – 1 p.m.

Walk in the shoes of 11-year-old Amisa, a refugee living in the Nyarugusu Refugee Camp in Tanzania, through a virtual reality experience (VR) presented by the UN Foundation's Nothing But Nets campaign. Under the Net is the story of Amisa, her mother and six siblings as they struggle to survive each day with no protection from mosquitoes that carry malaria at night. Be sure to stop by the Nothing But Nets exhibit and watch Amisa's story through her eyes – as only VR can present it.

Project Zero

Convention Center - Pratt Street Lobby (Level 300)

Wednesday, November 8, 10 a.m. – 1 p.m.

Don't miss the latest virtual reality (VR) films by Huffington Post's Project Zero, an ongoing series created to raise awareness around neglected tropical diseases and efforts to fight them. Three 360-degree VR films tell the untold stories of the victims and health workers battling Elephantiasis, River Blindness and Sleeping Sickness in some of the most remote and underdeveloped regions of the world. Explore the challenges of and progress toward eliminating these diseases in an experience provided through the VR format.

Poster Session C Viewing

Convention Center - Hall F and G (Level 100)

Wednesday, November 8, 10:15 a.m. - Noon

Symposium 132

Approaches to Malaria Elimination in Southern Africa, Southeast Asia and South America: What Operational Research is Needed to Complete the Task?

Convention Center - Ballroom I (Level 400)

Wednesday, November 8, 10:15 a.m. - Noon

Progress in malaria control and elimination is driven by the hard work and dedication of national malaria programs and supported by the malaria research community. An important part of this support is to ensure that the operational research questions originate based on the needs and priorities of the national malaria programs. In doing so, real-world experience can generate the questions researchers need to investigate, with the results feeding back to the malaria programs for piloting, evaluation, potential large-scale implementation, and strategy and policy change. This symposium will feature current and former national malaria program managers and key surveillance personnel from four different malaria-endemic settings offer their practical insights and strategic vision on the operational research needed to reach malaria elimination. National malaria program leaders from Brazil, Indonesia, Swaziland and Thailand, all low-transmission countries aiming to eliminate malaria, will describe the technical challenges and highlight the operational gaps they experience in each of their respective settings, and interact with malaria researchers to identify the operational research questions and solutions to address their programmatic needs. The American Society of Tropical Medicine and Hygiene meeting provides an important opportunity for malaria programs to highlight the challenges they experience in the field and offer guidance on how the malaria research community can best support malaria elimination at country and regional levels. By having a unique set of epidemiologically-diverse countries presenting, similar challenges across national malaria programs will be highlighted, including identifying and mapping remaining *foci*, investigating and managing cases reported through the private sector, maintaining high levels of vector control coverage in remaining *foci*, surveillance and active case detection for mobile and migrant populations and preventing reintroduction. A "Research-meets-real-world-experience" feedback loop is critical to drive the most effective malaria elimination strategies, promote their uptake in the field, and support malaria programs in their efforts to eliminate the disease.

CHAIR

Adam Bennett

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

Elvieda Sariwati

National Malaria Control Program, Directorate of Vector-Borne Diseases, Ministry of Health, Jakarta, Indonesia

10:15 a.m.

APPROACHES TO MALARIA ELIMINATION IN INDONESIA: CHALLENGES OF POPULATION MOVEMENT BETWEEN ISLANDS AND THE OPERATIONAL RESEARCH NEEDED TO COMPLETE THE TASK

Elvieda Sariwati

National Malaria Control Program, Directorate of Vector-Borne Diseases, Ministry of Health, Jakarta, Indonesia

10:30 a.m.

APPROACHES TO MALARIA ELIMINATION IN BRAZIL: CHALLENGES ELIMINATING MALARIA TRANSMISSION FROM MINING AND OTHER REMOTE COMMUNITIES DEEP IN THE AMAZON

Ana Carolina Faria Silva Santelli

National Malaria Control Program, Ministry of Health of Brazil, Lago Sul, Federal District, Brazil

10:45 a.m.

APPROACHES TO MALARIA ELIMINATION IN SWAZILAND: CHALLENGES WITH MALARIA IMPORTATION AND HOW TO IMPROVE A CHEMOPREVENTION PROGRAM FOR TRAVELERS

Malambe Calsile

National Malaria Control Programme, Swaziland Ministry of Health, Mbabane, Swaziland

11 a.m.

APPROACHES TO MALARIA ELIMINATION IN THAILAND: ROLE OF FOCI MAPPING AND CLASSIFICATION FOR STRATIFYING SURVEILLANCE AND RESPONSE ACTIVITIES

Prayuth Sudathip

Bureau of Vector-borne Diseases, Nonthaburi, Thailand

Symposium 133

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

Convention Center - Ballroom II (Level 400)

Wednesday, November 8, 10:15 a.m. - Noon

The International *Plasmodium falciparum* (Pf) sporozoite (SPZ) vaccine consortium (I-PfSPZ-C), which includes more than 150 members from > 40 organizations in > 20 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 programs (MVP) campaigns to halt transmission of Pf in endemic areas. Stage 2 clinical trials have been completed or are in progress in the United States, Germany, Tanzania, Kenya, Mali, Burkina Faso and Equatorial Guinea, and will soon begin in Ghana and Gabon. 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 already completed clinical trials, 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, Equatorial Guinea, 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, Equatorial Guinea and the U.S. The presentations will also include data on two-dose and single-dose immunization regimens, and use of novel anti-malarials in PfSPZ-CVac, including drugs partners that can be used to combine mass drug administration (MDA) with MVP campaigns, and drugs 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.

SAFETY, IMMUNOGENICITY AND EFFICACY OF PFSPZ VACCINE AGAINST HETEROLOGOUS CHMI AT THREE AND SIX MONTHS

Alexandra L. Singer

Naval Medical Research Center, Silver Spring, MD, United States

10:35 a.m.

SAFETY, TOLERABILITY AND EFFICACY OF DOSE ESCALATING DIRECT VENOUS INOCULATION WITH RADIATION ATTENUATED *PLASMODIUM FALCIPARUM* NF54 SPOOROZOITES (PFSPZ VACCINE) AGAINST NATURAL MALARIA INFECTION AND CHMI IN HEALTHY MALIAN ADULTS

Ogobara K. Doumbo

University of Epidemiologie of Parasitic Diseases; ICER Mali, Faculty of Medicine and Dentistry, University of Sciences Techniques and Technologies, Bamako, Mali

10:55 a.m.

TOWARDS SINGLE-DOSE IMMUNIZATION WITH PFSPZ VACCINES

Benjamin Mordmüller

Institute of Tropical Medicine, Universitätsklinikum Tübingen, Tübingen, Germany

11:15 a.m.

COMPARISON BETWEEN PFSPZ VACCINE AND PFSPZ-CVAC IN AFRICA

Ally I. Olotu

Ifakara Health Institute and Bioko Malaria Vaccine Initiative, Malabo, Equatorial Guinea

Scientific Session 134

Malaria: Prevention - Many Points of View

Convention Center - Ballroom III (Level 400)

Wednesday, November 8, 10:15 a.m. – Noon

CHAIR

Matthew Coldiron

Epicentre, Paris, France

Carol H. Sibley

University of Washington, Seattle, WA, United States

10:15 a.m.

1355

PROTECTIVE EFFECTIVENESS OF SEASONAL MALARIA CHEMOPREVENTION IN NIGER: A PROSPECTIVE CASE-CONTROL STUDY

Matthew E. Coldiron¹, Bachir Assao², Alena Koscalova³, Michel Quere³, Céline Langendorf¹, Rebecca F. Grais¹
¹*Epicentre, Paris, France*, ²*Epicentre, Maradi, Niger*, ³*Médecins Sans Frontières, Geneva, Switzerland*

10:30 a.m.

1356

COMMUNITY-LED IMPLEMENTATION OF INTEGRATED MALARIA CONTROL IN SOUTHERN MALAWI

Robert S. McCann¹, Henk van den Berg¹, Michèle van Vugt², Dianne J. Terlouw³, Kamija S. Phiri⁴, Peter J. Diggle⁵, Themba Mzilahowa⁴, Lucinda Manda-Taylor⁴, Steve Gowelo⁴, Monicah Mburu¹, Alinune N. Kabaghe², Michael G. Chipeta⁵, Tumaini Malenga⁴, Willem Takken¹
¹*Wageningen University and Research, Wageningen, Netherlands*, ²*Academic Medical Centre, University of Amsterdam, Amsterdam, Netherlands*, ³*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*, ⁴*College of Medicine, University of Malawi, Blantyre, Malawi*, ⁵*Lancaster University, Lancaster, United Kingdom*

10:45 a.m.

1357

INSECTICIDAL WALL LINING FOR MALARIA CONTROL IN LIBERIA: RESULTS FROM A CLUSTER RANDOMIZED CONTROL TRIAL

David J. Giesbrecht¹, Julie Pontarollo², Jonas Ecke³, Sajid Kamal², Vincent Koko⁴, Levi Hinneh⁴, Oliver Pratt⁴, Richard Allan²
¹*University of Manitoba, Winnipeg, MB, Canada*, ²*The MENTOR Initiative, Crawley, United Kingdom*, ³*Purdue University, West Lafayette, IN, United States*, ⁴*National Malaria Control Program Liberia, Monrovia, Liberia*

11 a.m.

1358

IMPACT OF INDOOR RESIDUAL SPRAYING WITH ACTELLIC 300CS IN MALI ON KEY ENTOMOLOGICAL INDICATORS OF MALARIA TRANSMISSION

Arthur Sovi¹, Chitan Keita¹, Abdourhamane Dicko², Dereje Dengela³, Elie Bankineza¹, Jules Mihigo⁴, Kristen George⁵, Laura Norris⁵, Raymond Beach⁶, Richard M. Oxborough⁷
¹*U.S. Agency for International Development PMI AIRS Project, Abt Associates, Bamako, Mali*, ²*National Malaria Control Program, Bamako, Mali*, ³*U.S. Agency for International Development PMI AIRS Project, Abt Associates, Washington, DC, United States*, ⁴*U.S. Centers for Disease Control and Prevention, Bamako, Mali*, ⁵*U.S. President's Malaria Initiative, US Agency for International Development, Washington, DC, United States*, ⁶*Entomology Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁷*U.S. Agency for International Development PMI AIRS Project, Abt Associates, London, United Kingdom*

11:15 a.m.

1359

EVALUATION OF THE RESIDUAL EFFECTIVENESS OF FLUDORA FUSION WP-SB, A FORMULATED COMBINATION OF CLOTHIANIDIN AND DELTAMETHRIN, FOR THE CONTROL OF PYRETHROID-RESISTANCE MALARIA VECTORS ON BIKO ISLAND, EQUATORIAL GUINEA

Godwin Fuseini¹, Wonder Philip Phiri¹, Liberato Motobe Vaz¹, Raul Nguema¹, Abrahan Mathias¹, Jordan Smith¹, J. Luis Segura¹, Justin McBeath², Frederic Schmitt², Julie Niemczura de Carvalho³, Guillermo Garcia³, Christopher Schwabe³
¹*Medical Care Development International, Malabo, Equatorial Guinea*, ²*Bayer AG, Monheim, Germany*, ³*Medical Care Development International, Silver Spring, MD, United States*

11:30 a.m.

1360

THE IMPACT OF INDOOR RESIDUAL SPRAYING (IRS) WITH PIRIMIPHOS-METHYL ON ENTOMOLOGICAL INDICES IN A MALARIA HYPERENDEMIC REGION OF WESTERN KENYA

Bernard Abong'o¹, Diana Omoke¹, Eric Ochomo², Nabie Bayoh³, Kiambo Njangi⁴, Solomon Karuki⁴, Waqo Ejersa⁴, Robert Perry⁵, Laura Norris⁶, Brad Longman¹, John Gimnig⁷, Richard Oxborough⁸
¹*U.S. Agency for International Development PMI AIRS Project, Abt Associates, Kisumu, Kenya*, ²*Kenya Medical Research Institute, Centre for Global Health Research, Kisumu, Kenya*, ³*U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Nairobi, Kenya*, ⁴*National Malaria Control Programme, Nairobi, Kenya*, ⁵*U.S. President's Malaria Initiative, U.S. Agency for International Development, Nairobi, Kenya*, ⁶*U.S. President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States*, ⁷*U.S. Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, United States*, ⁸*U.S. Agency for International Development PMI AIRS Project, Abt Associates, London, United Kingdom*

11:45 a.m.

1361

DIFFERENTIAL IMPACTS OF INDOOR RESIDUAL SPRAYING ON THE CHARACTERISTICS OF MALARIA INFECTIONS IN A HIGH TRANSMISSION SETTING IN UGANDA

Joaniter I. Nankabirwa¹, John Rek², Emmanuel Arinaitwe², Patience Nayebare², Shereen Katrak³, Sarah Staedke⁴, Moses Kanya¹, Philip Rosenthal³, Isabel Barraquer Rodriguez³, Bryan Greenhouse³, Grant Dorsey³
¹*Makarere University Kampala, Kampala, Uganda*, ²*Infectious Diseases Research Collaboration, Kampala, Uganda*, ³*University of California San Francisco, San Francisco, CA, United States*, ⁴*London School of Hygiene & Tropical Medicine, London, United Kingdom*

Symposium 135

Lessons Learned From Dengue Vaccination Programs in Asia and Latin America

Convention Center - Ballroom IV (Level 400)
Wednesday, November 8, 10:15 a.m. - Noon

Supported with funding from Sanofi Pasteur

During the past five decades, global dengue incidence has increased 30-fold. Vector control efforts in most areas have failed to halt this spread. Eight dengue vaccine candidates were in clinical development as of Jan 2017. CYD-TDV is the only one that has completed large randomized trials, achieved licensure (13 countries), and to be implemented (sub-national immunization programs in The Philippines and Brazil). Dengue vaccines have substantial public health potential, through outbreak mitigation, disease reduction, health system stabilization, and stronger tourism and other economic outcomes. Additionally, lessons learned from this vaccine will pave the way for other dengue vaccines. This symposium will provide an overview of issues related to dengue vaccine introduction and evaluation based on the experience of implementing countries. The symposium will provide an introduction of and update on vaccine characteristics and a presentation of factors used by countries to decide on vaccine introduction. This will be followed by a review of criteria for the selection of target geographical areas and age groups for vaccine introduction and important principles for vaccine introduction. National experts from Brazil and The Philippines will present their countries' experience with introduction. This will include determining target populations, methods for assessing disease burden, choice of immunization platform,

Wednesday
November 8

social mobilization and communication, data on vaccine coverage by dose and lessons learned in program implementation. The two presentations will complement each other as Brazil used a community-based strategy across a wide age group while The Philippines implemented vaccine in a school-based program across a narrow age range. The final speaker will close with a presentation of methods and experience with assessing the impact and public health value of dengue vaccine. This talk will emphasize how vaccines can prevent or minimize outbreaks and the subsequent disruption of health care services, increased school and work absenteeism and reduction of economic activities such as tourism. The symposium will provide some of the first information from real-world experiences with dengue vaccine introduction, including identification of target groups, introduction strategy, demand generation, building an adolescent platform, minimizing immunization drop-outs and success in implementation as judged by coverage. Our primary goal is to provide field-based information on dengue vaccine implementation to public health officials, academicians and key decision makers from dengue endemic countries.

CHAIR

Bradford D. Gessner
AMP, Paris, AK, United States

Sonia Raboni
Universidade Federal do Paraná, Paraná, Brazil

10:15 a.m.

UPDATE ON VACCINE LICENSING AND PUBLIC SECTOR PROGRAMS AND INTRODUCTION STRATEGIES IN EARLY ADOPTING ASIA AND LATIN AMERICA COUNTRIES

Isabelle Delrieu
AMP, Paris, France

10:35 a.m.

LARGE-SCALE PUBLIC SECTOR VACCINATION PROGRAMS: THE EXPERIENCE FROM INTRODUCTION IN BRAZIL

Sonia Raboni
Universidade Federal do Paraná, Curitiba - Paraná, Brazil

10:55 a.m.

LARGE-SCALE PUBLIC SECTOR VACCINATION PROGRAMS: THE EXPERIENCE FROM INTRODUCTION IN THE PHILIPPINES

Julius Leccionos
Philippine Children's Medical Center, Manila, Philippines

11:15 a.m.

DENGUE VACCINATION IMPACT ASSESSMENT

Bradford Gessner
AMP, Paris, France

Symposium 136

Innovative Approaches to Monitor Resistance and Resistance Management for Effective Vector Control

Convention Center - Room 318/319/320 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

Indoor residual spraying (IRS) and insecticide treated nets (ITNs) continue to be the frontline of vector control interventions. IRS and ITNs have been scaled up across malaria endemic countries,

particularly in sub-Saharan Africa, during the past two decades, which has been associated with a dramatic decline in malaria mortality and morbidity. At same time, the emergence and rapid spread of resistance to insecticides, which the efficacy of ITNs and IRS are dependent on, presents growing threats to malaria control gains. It is incumbent on all malaria stakeholders to join hands and make concerted efforts to prevent, slow down and mitigate the impact of insecticide resistance before it undermines malaria vector control programs. The first step in resistance management is establishment of strong, reliable and regular entomological monitoring that includes resistance monitoring to best understand the spatial and temporal distribution of vectors and their resistance status at a local level. Drawing on country examples, this symposium will discuss how insecticide resistance monitoring has been built in insecticide-based vector control programs in 13 countries in Africa and empirical data generated from the monitoring has regularly been used to inform vector control programs, particularly IRS. This symposium also explores how some innovative tools have been used to identify genes and mutations responsible for resistance and detect and monitor metabolic resistance, such as specific biochemical substrates and lateral flow simple immune diagnostic tests, which are key to early detection of resistance. The session will discuss how Bayesian model-based geo-statistics have been used to characterize spatiotemporal variation in insecticide resistance of malaria vectors, how outputs from these will be used in further geospatial analyses of the relative influence of different potential drivers of selection for resistance and the impact of insecticide resistance on malaria transmission in the context of current interventions. The Global Plan for Insecticide Resistance Management launched by World Health Organization in 2012 recommends pre-emptive rotation of insecticides to help preserve the limited public health insecticides available for use in the horizon. However, thus far, there are very limited experiences around pre-emptive rotation and management resistance in malaria vector control. In this symposium, attendees will learn state-of-the-art approaches for evaluating new tools for mitigating the impact of resistance in malaria vectors.

CHAIR

Dereje O. Dengela
Abt Associates, Bethesda, MD, United States

Micheal Coleman
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:15 a.m.

HIGH INTENSITY PYRETHROID RESISTANCE AND EMERGING RESISTANCE TO CARBAMATES AND ORGANOPHOSPHATES – A MAJOR THREAT TO MALARIA VECTOR CONTROL

Aklilu Seyoum
Abt Associates, Accra, Ghana

10:35 a.m.

GEOSPATIAL PATTERNS OF INSECTICIDE RESISTANCE

Catherine Moyes
University of Oxford, Oxford, United Kingdom

10:55 a.m.

NEW TOOLS FOR MONITORING INSECTICIDE RESISTANCE

John Vontas
Agricultural University of Athens, Athens, Greece

11:15 a.m.

EVALUATING NEW TOOLS AND APPROACHES FOR MITIGATING THE IMPACTS OF INSECTICIDE RESISTANCE IN MALARIA VECTORS

Hilary Ranson

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Scientific Session 137

Malaria: Genetics and Genomics

Convention Center - Room 321/322/323 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

CHAIR

Alyssa Barry

Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia

Greg LaMonte

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

10:15 a.m.

1362

POPULATION GENOMICS IN *P. VIVAX*: LEVELS OF GENETIC DIVERSITY IN AMERICA

Thais Crippa de Oliveira¹, Priscila Thihara Rodrigues¹, Maria José Menezes¹, Raquel Muller Gonçalves-Lopes¹, Melissa Silva Bastos¹, Nathália Ferreira Lima¹, Susana Barbosa¹, Alexandra Lehmkuhl Gerber², Guilherme Loss Morais³, Luisa Berná⁴, Jody Phelan⁵, Carlos Robello⁴, Ana Tereza Ribeiro Vasconcelos², João Marcelo Alves¹, Marcelo Urbano Ferreira¹

¹University of Sao Paulo, Sao Paulo, Brazil, ²National Laboratory of Scientific Computation, Petrópolis, Brazil, ³National Laboratory of Scientific Computation, Petrópolis, Brazil, ⁴Pasteur Institute of Montevideo, Montevideo, Uruguay, ⁵London School of Hygiene & Tropical Medicine, London, United Kingdom

(ACMCIP Abstract)

10:30 a.m.

1363

FINE-SCALE POPULATION GENETICS OF *P. FALCIPARUM* IN NORTHERN NAMIBIA

Sofonias Tessema¹, Maxwell Murphy¹, Anna-Rosa Mupiri², Jennifer L. Smith³, Anna Chen¹, Jordan Wilhelm¹, Michelle S. Hsiang¹, Hugh J. Sturrock³, Davis Mumbengegwi², Bryan Greenhouse¹

¹University of California San Francisco, San Francisco, CA, United States, ²Multidisciplinary Research Center, University of Namibia, Windhoek, Namibia, ³Elimination Initiative, Global Health Group, University of California San Francisco, San Francisco, CA, United States

10:45 a.m.

1364

RELATING GENETIC SIGNATURES TO TRANSMISSION CONDITIONS RESPONSIBLE FOR THE EMERGENCE AND SPREAD OF MULTI-DRUG-RESISTANT PARASITES IN CAMBODIA

Edward A. Wenger¹, Roberto Amato², Joshua L. Proctor¹, Philip A. Eckhoff¹, Dominic Kwiatkowski²

¹Institute for Disease Modeling, Seattle, WA, United States, ²Sanger Institute, Cambridge, United Kingdom

11 a.m.

1365

COMPARATIVE LONGITUDINAL POPULATION GENOMIC SURVEYS OF *PLASMODIUM FALCIPARUM* MALARIA PARASITES IN FRENCH GUIANA AND THAILAND

Gustavo C. Cerqueira¹, Stephane Pelleau², Alexandre Melnikov¹, Steven F. Schaffner¹, Béatrice Volney², Ian H. Cheeseman³, Yassamine Lazrek², Félix Djossou⁴, Marina McDew-White³, Shalini Nair³, Aung P. Phy⁵, Elizabeth A. Ashley⁶, Timothy J. Anderson³, Eric Legrand², François Nosten⁵, Bruce Birren¹, Lise Musset², Daniel Neafsey¹

¹Broad Institute of Massachusetts Institute of Technology and Harvard,

Cambridge, MA, United States, ²Institute Pasteur de la Guyane, Cayenne, French Guiana, ³Texas Biomedical Research Institute, San Antonio, TX, United States, ⁴Tropical Disease Unit, Centre Hospitalier Andrée Rosemon, Cayenne, French Guiana, ⁵Shoklo Malaria Research Unit, Mahidol University, Mae Sot, Thailand

11:15 a.m.

1366

DUAL RNA SEQUENCING IDENTIFIES NOVEL HOST BIOMARKERS OF *PLASMODIUM* HEPATIC INFECTION

Gregory M. LaMonte, Pamela Orjuela-Sanchez, Lawrence Wang, Justine Swann, Shangzhong Li, Bing Yu Zou, Annie Cowell, Nathan Lewis, Elizabeth Winzeler

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

(ACMCIP Abstract)

11:30 a.m.

1367

PLASMODIUM VIVAX WHOLE GENOME SEQUENCING TO ASSESS GENETIC RELATEDNESS OF POLYCLONAL RELAPSES IN CAMBODIA

Nicholas F. Brazeau¹, Chanthap Lon², Pavitra Rao³, Christian Parobek⁴, Sujata Balasubramanian⁵, Mark M. Fukada⁶, Mariusz Wojnarski⁸, Philip Smith⁶, Michele Spring⁶, Jonathan J. Juliano⁵, Jane M. Carlton³, David L. Saunders⁶, Jessica T. Lin⁵

¹Department of Epidemiology, University of North Carolina Gillings School of Global Public Health, Chapel Hill, NC, United States, ²Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, ³Center for Genomics and Systems Biology, Department of Biology, New York, NY, United States, ⁴University of North Carolina School of Medicine, Chapel Hill, NC, United States, ⁵Division of Infectious Diseases, University of North Carolina School of Medicine, Chapel Hill, NC, United States, ⁶Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

11:45 a.m.

1368

ASSOCIATION BETWEEN DIFFERENT POLYMORPHISMS OF MTMR3 AND C1QTNF6 ON CHROMOSOME 22 AND SEVERE MALARIAL ANEMIA IN CHILDREN FROM WESTERN KENYA

Niraj Ganjawala¹, Angela O. Achieng¹, Evans Raballah², Qiuying Cheng¹, Douglas J. Perkins¹, Prakasha Kempaiah¹

¹University of New Mexico School of Medicine, Albuquerque, NM, United States, ²University of New Mexico/KEMRI Laboratories, Kisumu, Kenya

Symposium 138

Controlling Typhoid Disease: New Insights on Vaccines and Vaccination Strategies

Convention Center - Room 324/325/326 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

Typhoid fever disproportionately impacts children and poor populations, a trend that is likely to grow with increasing urbanization. Combined with the growing problem of multi-drug resistance, the prevention and control of *Salmonella enterica* serovar *Typhi* (*S. Typhi*) is a global health priority. At present, vaccines for typhoid fever are underutilized despite the substantial disease burden and a World Health Organization (WHO) recommendation for the use of typhoid vaccines. New vaccines and vaccination strategies are needed to enable programmatic implementation of typhoid control through vaccination. Typhoid Conjugate Vaccines (TCV)s, which may be given to children as young as six months of age and are expected to have longer duration of immunity than polysaccharide vaccines, should overcome many of the challenges that have impeded

uptake of the earlier vaccines. The expected pre-qualification (PQ) of at least one TCV in the near-term provides a unique opportunity to understand how these vaccines may be used to achieve the greatest impact and ensure typhoid vaccines finally reach those who need them most. Further, already licensed and prequalified vaccines, including an oral vaccine, have been used to control typhoid. Several new initiatives are underway to ensure that available vaccines are used to achieve the greatest impact and ensure typhoid vaccines finally reach those who need them most. The presentations will address typhoid from multiple perspectives in diverse settings.

CHAIR

Kathleen Neuzil
*University of Maryland School of Medicine, Center for Vaccine Development,
Baltimore, MD, United States*

Rosanna Lagos
Hospital de Niños Roberto Del Río, Santiago, Chile

10:15 a.m.

EVALUATING TYPHOID CONJUGATE VACCINES: THE CONTROLLED HUMAN INFECTION MODEL

Andrew Pollard
Oxford Vaccine Group, University of Oxford, Oxford, United Kingdom

10:35 a.m.

TYPHOID IN NEPAL: LESSONS FROM A POPULATION-BASED STUDY TO INFORM VACCINE INTRODUCTION

Buddha Basnyat
Oxford University Clinical Research Unit, Kathmandu, Nepal

10:55 a.m.

EVALUATION OF THE FIRST LARGE-SCALE PROGRAMMATIC IMPLEMENTATION OF TYPHOID CONJUGATE VACCINES IN NAVI-MUMBAI INDIA

Kashmira Date
Centers for Disease Control and Prevention, Atlanta, GA, United States

11:15 a.m.

UNDERSTANDING THE ROLE OF CHRONIC CARRIERS IN THE TRANSMISSION AND CONTROL OF TYPHOID FEVER: LESSONS FROM CHILE

Myron Levine
*University of Maryland School of Medicine, Center for Vaccine Development,
Baltimore, MD, United States*

Symposium 139

Improving the Triage and Management of Children with Acute Febrile Illnesses through Point-Of-Care Technologies

Convention Center - Room 327/328/329 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

The management of childhood infections remains challenging in resource-limited countries, resulting in many preventable deaths and the irrational use of medicines. The objective of this symposium is to share learning on how different innovative point-of-care technologies can improve the management of children with acute febrile illnesses at the outpatient level from a variety of studies conducted recently. First, a short overview will be given on the broader questions and reflections around the use point-of-care technologies in such settings. Médecins sans Frontières

is currently evaluating the accuracy of a smartphone-based cough sound acoustic analysis tool in detecting the different causes of respiratory infections with a focus on the diagnosis of pneumonia and differentiation of upper from lower respiratory tract infections. Results from a prospective diagnostic accuracy study in India will be presented. The Malawi Ministry of Health recently conducted a three-year implementation study of using pulse oximetry in rural health centers and with community health workers, including more than 14,000 children. Experiences and lessons learned, and potential future implications of pulse oximetry use for the triage and care of children with pneumonia at peripheral health care level in low-middle-income countries will be discussed. The Mahidol Oxford Tropical Research Unit has lead efforts on improving the rational use of antibiotics in patients with acute infections through the use of point-of-care C-reactive protein testing. Findings from a large multi-country clinical trial in Southeast Asia aiming at evaluating the impact of the C-reactive protein on antibiotic prescription, in the context of remote and primary healthcare settings will be presented. The Swiss Tropical and Public Health Institute has aimed at improving case management of children with acute febrile illnesses through the development and evaluation of a tablet-based disease management algorithm that uses different point-of-care tests (C-reactive protein, procalcitonin, hemoglobin and oximetry). Findings from a randomized clinical trial in 3192 children in Tanzania will be shown. The symposium will end with a moderated discussion, which will facilitate a structured discussion linking the different topics presented.

CHAIR

Valérie D'Acremont
Swiss Tropical and Public Health Institute, Basel, Switzerland

Kristina Keitel
Swiss Tropical and Public Health Organization, Basel, Switzerland

10:15 a.m.

USE OF COUGH SOUND ACOUSTIC ANALYSIS THROUGH MOBILE PHONES IN THE DIAGNOSIS OF CHILDHOOD PNEUMONIA IN INDIA – A FIELD EVALUATION STUDY

Nadia Lafferty
Médecins Sans Frontières, Barcelona, Spain

10:35 a.m.

IMPLEMENTATION LESSONS AND POTENTIAL IMPACT OF USING PULSE OXIMETRY FOR THE MANAGEMENT OF CHILD ACUTE RESPIRATORY INFECTION AT PRIMARY CARE AND COMMUNITY LEVEL IN MALAWI

Norman Lufesi
Ministry of Health, Lilongwe, Malawi

10:55 a.m.

C-REACTIVE PROTEIN IN THE MANAGEMENT OF ACUTE FEBRILE ILLNESS: FINDINGS FROM A MULTI-COUNTRY CLINICAL TRIAL IN SOUTHEAST ASIA

Thomas Althaus
Mahidol-Oxford Tropical Medicine Research Unit, Mahidol University, Bangkok, Thailand

11:15 a.m.

A NOVEL ELECTRONIC ALGORITHM USING PULSE OXIMETRY AND HOST BIOMARKER POINT-OF-CARE-TESTS FOR THE MANAGEMENT OF FEBRILE ILLNESS IN CHILDREN: FINDINGS FROM A RANDOMIZED CONTROLLED TRIAL IN TANZANIA

Kristina Keitel

Swiss Tropical and Public Health Institute, Basel, Switzerland

Symposium 140

Household Air Pollution and Health: Recent and Ongoing Research

Convention Center - Room 331/332 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

Globally, nearly three billion people rely on solid fuels for cooking, the vast majority in low- and middle-income countries (LMICs). The resulting household air pollution (HAP) is a leading risk factor in the global burden of disease, accounting for an estimated 2.8 million deaths annually, largely among women and young children. Much of this disease burden consists of pneumonia, the leading killer of young children. There is increasing evidence, however, that HAP is associated with low birthweight and stunting, as well as cardio-pulmonary diseases and cancer. While the health risks associated with HAP are becoming increasingly clear, however, recent field trials and other research of stove interventions in Asia and Sub-Saharan Africa have identified challenges in reducing HAP to levels that may be necessary to achieve health gains. Chief among these are technological limitations that limit the combustion efficiency of even advanced biomass cook stoves to reach targeted levels of emissions. Other factors include continued use of traditional biomass stoves, as well as continued exposure to air pollution from other sources including community biomass smoke, vehicle and industrial emissions, and lighting. This symposium will summarize the results of recent randomized controlled trials and observational studies designed to investigate the potential of improved cooking technology (stoves and fuel) to achieve significant reductions in HAP. It will address the need for field development and testing of technologies prior to programmatic implementation. It will also provide details on ongoing trials, including a multi-country intervention trial to assess the potential liquefied petroleum gas (LPG) cookstoves, likely the cleanest scalable intervention.

CHAIR

Thomas Clasen

Emory University, Rollins School of Public Health, Atlanta, GA, United States

Sumi Mehta

Global Alliance for Clean Cooking, Washington, DC, United States

10:15 a.m.

OVERVIEW OF RECENT RESEARCH ON CLEAN COOKING IN LOW-INCOME COUNTRIES

Sumi Mehta

Global Alliance for Clean Cooking, Washington, DC, United States

10:35 a.m.

CHALLENGES OF REDUCING EXPOSURE TO ACHIEVE HEALTH GAINS

Jill Baumgartner

McGill University, Montreal, Canada

10:55 a.m.

WHY IS IT SO DIFFICULT TO GET PEOPLE TO USE COOKING TECHNOLOGY THAT WILL REDUCE RESPIRATORY DISEASES, AND WHAT CAN BE DONE ABOUT IT?

Joshua Rosenthal

Fogarty International Center, Bethesda, MD, United States

11:15 a.m.

HAPIN: A MULTI-COUNTRY LPG INTERVENTION TRIAL

Thomas Clasen

Emory University, Rollins School of Public Health, Atlanta, GA, United States

Symposium 141

Interim Strategies on Onchocerciasis Elimination in Africa: National Approaches to Transmission Interruption in the Absence of Formal Guidance

Convention Center - Room 337/338 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

The new guidelines for verification of elimination of transmission of onchocerciasis published by the World Health Organization in 2016 set new, more stringent thresholds for determining when mass treatment with ivermectin can safely be stopped. In previously guidance established for use in the Americas, the use of skin snips (<0.1% in children =5 years) and ocular infection were considered sufficient to assess transmission. These new thresholds, established for use in the African region and elsewhere, require the use of the far more sensitive OV16 ELISA test and focuses on a different age group (<0.1% in children <10 years). Unfortunately, these guidelines begin with the decision to stop-treatment and move to post-treatment surveillance while saying nothing about the operational steps of how to reach that point. This creates a challenge in much of the Africa region where the historic focus of onchocerciasis programs has been on morbidity control. In these countries, where treatment is required for as many as 15 years, the decision to begin treatment focused on areas with a prevalence of the parasite in the skin of =40%. With the introduction of a new threshold for elimination in the region, what areas need treatment has become a vital question. In addition, guidance on when alternative treatment strategies (such as twice per year treatment) are needed and deciding when a program is ready for an evaluation are also lacking. In the absence of needed guidance on these issues, many countries have established expert advisory committees in accordance with WHO guidelines and with the support of WHO, to review national data, advise on the development of elimination strategies, and advise national programs on how best to move forward until a common strategy is developed by WHO. This session will review the challenges faced by country programs and some of the interim strategies they have developed to address them. It will also include inputs from WHO on suggested ways forward while awaiting the evidence-base for additional guidance and possible linkages between national programs and the newly form Expanded Special Program for Neglected Diseases (ESPEN).

CHAIR

Yao Sodahlon

Task Force for Global Health, Atlanta, GA, United States

Sharon Roy

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

10:15 a.m.

THE CHALLENGES OF MOVING FROM CONTROL TO ELIMINATION AND THE NEED FOR INTERIM GUIDANCE

Darin S. Evans

U.S. Agency for International Development, Washington, DC, United States

10:30 a.m.

THE ETHIOPIAN ONCHOCERCIASIS ADVISORY COMMITTEE

Biruck Kebede

Ethiopia Ministry of Health, Addis Ababa, Ethiopia

10:45 a.m.

THE TOGO ONCHOCERCIASIS ADVISORY COMMITTEE

Siamevi Komla

Senior Consultant to the Togo Ministry of Health, Lome, Togo

11 a.m.

THE TANZANIAN ONCHOCERCIASIS ADVISORY COMMITTEE

Andreas M. Nshala

Neglected Tropical Diseases Control Program, HDI Tanzania, Dar Es Salaam, United Republic of Tanzania

11:15 a.m.

THE NIGERIAN ONCHOCERCIASIS ADVISORY COMMITTEE

B.E.B. Nwoke

Imo State University Nigeria, Oweri, Nigeria

11:30 a.m.

THE ROLE OF ESPEN FOR NATIONAL COMMITTEES

Maria Rebollo

WHO/AFRO/ESPE, Brazzaville, Republic of the Congo

11:45 a.m.

UPDATE: PROGRESS TOWARDS FORMAL OPERATIONAL GUIDANCE

Paul Cantey

World Health Organization, Geneva, Switzerland

Symposium 142

The Evidence is In: Schistosomiasis Control in the 21st Century

Convention Center - Room 339/340 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

This symposium will review and interpret the five-year results of large-scale, randomized, operational research trials on the use of targeted MDA for control of schistosomiasis in endemic areas of Africa. In addition, new field studies will be presented on the role of circulating antigen-based diagnostic testing (in contrast to microscopic egg detection) for surveillance in areas that have been previously reduced to low infection prevalence via MDA. Results of these projects, funded by SCORE, the Schistosomiasis Consortium for Operational Research and Evaluation, are being used to define practical next steps in regional and national schistosomiasis control policy, including dealing with the problem of persistent hot spots within *Schistosoma* transmission zones, and the role of 'egg-negative' schistosomiasis as a continuing local health threat. SCORE's modeling projects, now calibrated using multi-country, multi-community project data, can now project the five- and ten-year outcomes for new control programs, and offer insights on the incremental benefits of adding social and environmental interventions to supplement MDA. Speakers

will relate their new findings on: i) The five-year impact of school- vs. community-based mass drug administration for *S. mansoni* in Kenya and in Tanzania; ii) The performance of point-of-care antigen detection diagnostics for rapid community screening in follow up of mass treatment campaigns in Egypt; iii) Projections of the influence of persisting 'hot spot' villages on chances for regional elimination, and the long-term value of supplemental interventions to disrupt transmission.

CHAIR

Charles H. King

Case Western Reserve University, Center for Global Health and Disease, Cleveland, OH, United States

Daniel G. Colley

University of Georgia, Center for Tropical and Emerging Global Diseases, Athens, GA, United States

10:15 a.m.

GAINING CONTROL OF HIGH PREVALENCE *S. MANSONI* IN WESTERN KENYA

Pauline N. Mwinzi

Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya

10:40 a.m.

FIVE-YEAR IMPACT OF MDA IN TANZANIA: FOCUS ON *S. MANSONI*-ASSOCIATED MORBIDITY

Annette Olsen

University of Copenhagen, Copenhagen, Denmark

11:05 a.m.

REASSESSMENT OF *S. MANSONI* INFECTION IN THE NILE DELTA USING THE URINE-CIRCULATING CATHODIC ANTIGEN RAPID TEST VS. THE KATO-KATZ TEST: EXPERIENCE IN LOW-EMDEMICITY AREAS IN EGYPT

Reda M. Ramzy

National Nutrition Institute, Cairo, Egypt

11:30 a.m.

ARE WE ON THE WHO ROADMAP?: USING SCORE RESULTS TO PROJECT THE FUTURE OF SCHISTOSOMIASIS CONTROL

Charles H. King

Case Western Reserve University, Center for Global Health and Disease, Cleveland, OH, United States

Scientific Session 143

HIV and Tropical Co-Infections

Convention Center - Room 341/342 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

CHAIR

Hannah Kibuuka

Makerere University Walter Reed Project, Kampala, Uganda

Inge Kroidl

Medical Center of the University of Munich (LMU), Munich, Germany

10:15 a.m.

1369

HIV-EXPOSED BUT UNINFECTED INFANTS ARE AT INCREASED RISK FOR NEONATAL GBS DISEASE: SYSTEMATIC REVIEW AND META-ANALYSIS

Piet Cools¹, Janneke H. van de Wijgert², Vicky Jaspers³, Tania Crucitte³, Eduard Sanders⁴, Hans Verstraelen⁵, Mario Vanechoutte¹

¹Ghent University, Ghent, Belgium, ²Liverpool University, Liverpool, United

Kingdom, ³Institute of Tropical Medicine, Antwerp, Belgium, ⁴Oxford University, Oxford, United Kingdom, ⁵Ghent University Hospital, Ghent, Belgium

10:30 a.m.

1370

IMMUNOLOGICAL AND CLINICAL OUTCOMES OF HUMAN IMMUNODEFICIENCY VIRUS EXPOSED BUT UNINFECTED INFANTS COMPARED TO UNEXPOSED UNINFECTED INFANTS: A COHORT STUDY IN KISUMU, KENYA

Jessica Ray¹, David Midem², Fredrick Opinya², Ibrahim Daud², Sidney Ogolla², Maxwel Majiwa Omenda², Edwin Odhiambo², Peter Odada Sumba², Amy Nowacki³, Rosemary Rochford⁴, Arlene Dent¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Cleveland Clinic Foundation, Cleveland, OH, United States, ⁴University of Colorado School of Medicine, Denver, CO, United States

10:45 a.m.

1371

USE OF BED NETS A SURROGATE MARKER FOR RISK BEHAVIOR TOWARDS HIV

Inge Kroidl¹, Petra Clowes², Lucas Maganga², Leonard Maboko², Upendo Mwingira³, Michael Hoelscher¹, Elmar Saathoff¹

¹Medical Center of the University of Munich (LMU), Munich, Germany, ²National Institute for Medical Research Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, ³National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

11 a.m.

1372

DEMOGRAPHIC AND CONTEXTUAL FACTORS ASSOCIATED WITH HIV MORTALITY IN AN AFRICAN COHORT IN EAST AFRICA AND NIGERIA

Hannah Kibuuka¹, Francis Kiweewa¹, Ezra Musinye¹, Jonah Maswai², John Owouth³, Lucas Maganga⁴, Senate Amusu⁵, Michael Semwogerere¹, Christina Polyak⁶, Julie Ake⁶

¹Makerere University Walter Reed Project, Kampala, Uganda, ²Walter Reed Project, Kericho, Kenya, ³Walter Reed Project HIV Program, Kisumu West Districts, Kisumu, Kenya, ⁴Mbeya Medical Research Program, Mbeya, United Republic of Tanzania, ⁵U.S. Military HIV Research Program, Abuja, Nigeria, ⁶U.S. Military HIV Research Program, Bethesda, MD, United States

11:15 a.m.

1373

RATE OF VIREMIA AND ITS PREDICTORS AMONG ADULT HIV INFECTED PATIENTS IN THE AFRICAN HIV COHORT

Francis Kiweewa¹, Ezra Musinye¹, Hannah Kibuuka¹, Babajide Keshinro², Trevor A. Crowell³, Trevor A. Crowell³, Trevor A. Crowell³, Jonah Maswai⁴, John Owuoth⁵, Lucas Maganga Maganga⁶, Julie Ake Ake³, Christina Polyak³

¹Makerere University Walter Reed Project (MUWRP), Kampala, Uganda, ²Walter Reed Program-Nigeria, Abuja, Nigeria, ³U.S. Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴KEMRI/Walter Reed Project, Kericho, Kenya, ⁵Walter Reed Program, Kisumu, Kenya, ⁶Walter Reed Program-Tanzania, Mbeya, United Republic of Tanzania

11:30 a.m.

1374

CRYPTOCOCCAL ANTIGENEMIA IN HIV-INFECTED ADULTS IN THE AFRICAN COHORT STUDY

Valentine Sing'oei¹, John Owuoth¹, Kavitha Ganesan², Ben Andagalu¹, Senate Amusu³, Emmanuel Bahemana⁴, Francis Kiweewa⁵, Jonah Maswai⁶, Julie Ake², Allahna Esber², Trevor A. Crowell², Christina Polyak²

¹Kenya Medical Research Institute/Walter Reed Project, Kisumu, Kenya, ²U.S. Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³Walter Reed Program, Abuja, Nigeria, ⁴Mbeya Medical Research Centre, Mbeya, United Republic of Tanzania, ⁵Makerere University-Walter Reed Project, Kampala, Uganda, ⁶Kenya Medical Research Institute/Walter Reed Project, Kericho, Kenya

11:45 a.m.

1375

UNFAVORABLE TUBERCULOSIS OUTCOME ASSOCIATED WITH HIV, DRUG RESISTANCE, AND PREVIOUS TREATMENT IN INDONESIA

Dona Arlinda, Retna Mustika Indah, Aris Yulianto, Agus Dwi Harso, Armaji Kamaludi Syarief, Muhammad Karyana

Indonesia National Institute of Health Research and Development, Jakarta, Indonesia

Symposium 144

International Zika Cohort Studies in Pregnant Women

Convention Center - Room 343/344 (Level 300)

Wednesday, November 8, 10:15 a.m. - Noon

Understanding Zika infection during pregnancy and adverse maternal/fetal health outcomes and the risk of vertical transmission requires large cohort studies. These cohort studies are challenging to design and implement during an outbreak.

This symposium aims to describe several ongoing studies and opportunities for collaboration and sharing of common data elements to assess rare outcomes in order mitigate the risk of a waning epidemic.

CHAIR

Cristina Casseti

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

Nikos Vasilakis

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

10:15 a.m.

ZIP METHODOLOGY AND SUB-STUDIES

Carmen Zorrilla

University of Puerto Rico, San Juan, PR, United States

10:45 a.m.

EU ZIKA COHORT STUDIES ACTION/ALLIANCE/PLAN

Thomas Janeisch

University Hospital Heidelberg, Heidelberg, Germany

11:05 a.m.

CDC COHORT STUDIES

Margaret Honein

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

11:25 a.m.

INTERNATIONAL COORDINATION AND UTILITY OF INDIVIDUAL PATIENT DATA META-ANALYSIS (IPD)

Lauren Maxwell

World Health Organization, Geneva, Switzerland

Wednesday
November 8

Exhibit Hall Open and Light Lunch

Convention Center - Swing Hall (Level 100)
Wednesday, November 8, Noon - 2:30 p.m.

Poster Session 145

Poster Session C: Presentations and Light Lunch

Convention Center - Hall F and G (Level 100)
Wednesday, November 8, Noon - 1:45 p.m.

Poster Session C Directory

Alphaviruses (Includes Chikungunya): #1376 – 1383
Flaviviridae – Dengue: #1384 - 1412
Flaviviridae – Other: #1413 - 1430
Flaviviridae – West Nile: #1431 - 1433
Viruses – Other: #1434 - 1446
Arthropods/Entomology - Other: #1447 - 1457
Mosquitoes – Biochemistry and Molecular Biology:
#1458 - 1467
Mosquitoes – Insecticide Resistance and Control:
#1468 - 1478
Mosquitoes – Molecular Genetics: #1479 - 1487
Mosquitoes – Vector Biology – Epidemiology: #1488 - 1501
Global Health: #1502 - 1538
Malaria – Biology and Pathogenesis: #1539 - 1548
Malaria – Chemotherapy and Drug Resistance: #1549 - 1569
Malaria – Diagnosis: #1570 - 1586
Malaria – Drug Development – Preclinical Studies:
#1587 - 1601
Malaria – Elimination: #1602 - 1618
Malaria – Epidemiology: #1619 - 1645
Malaria – Genetics/Genomics: #1646 - 1663
Malaria – Immunology: #1664 - 1675
Malaria – Modeling: #1676 - 1686
Malaria – Other: #1687 - 1713
Malaria – Vaccines: #1714 - 1729
Malaria/Mosquitoes – Field Prevention: #1730 - 1746
Bacteriology – Enteric Infections: #1747 - 1760
Bacteriology – Trachoma: #1761 - 1769
Clinical Tropical Medicine: #1770 - 1794
Helminths – Nematodes – Filariasis (Epidemiology):
#1795 - 1809
Helminths – Nematodes – Filariasis (Immunology): #1810
Helminths – Nematodes – Filariasis (Other): #1811 - 1816
Helminths – Nematodes – Intestinal Nematodes:
#1817 - 1828
HIV and Tropical Co-Infection: #1208 - 1222
Kinetoplastida – Epidemiology (Including *Leishmania* and
Trypanosomes): #1829 – 1843
One Health: Interface of Human Health/Animal Diseases:
#1844 - 1859
Pneumonia, Respiratory Infections and Tuberculosis:
#1860 - 1874
Protozoa – Other Protozoa: #1875 - 1884
Water, Sanitation, Hygiene and Environmental Health:
#1885 - 1896

Alphaviruses (Includes Chikungunya)

1376

SEROPREVALENCE OF CHIKUNGUNYA IN VIETNAM - EVIDENCE OF PAST BUT NOT PRESENT TRANSMISSION

Quan Minh Tran, Vy Ha Nguyen, Phuong Thi Huynh, Thanh Thi Nguyen, Maciej F. Boni, Hannah Clapham
Oxford University Clinical Research Unit, Ho Chi Minh, Vietnam

1377

CHARACTERIZATION OF SINDBIS VIRUS CIRCULATING IN KENYAN ECOSYSTEMS

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²University of Cape Town, Cape Town, South Africa, ³Kenya Medical Research Institute, Nairobi, Kenya

1378

PREVALENCE OF CHRONIC JOINT PAIN FOLLOWING CHIKUNGUNYA INFECTION FROM A COLUMBIAN COHORT

Priyanka Kamalopathy¹, Liliana Encinales², Karen Martins³, Patrick Reid⁴, Nelly Pacheco², Shamila Pacheco², Eyda Bravo², Marianda Navarano², Carlos Encinales², Alexandra Porras², Alejandro Rico², Richard Amdur¹, Gary Firestein⁵, Gary Simon¹, Jeff Bethony¹, Aileen Chang¹

¹George Washington, Washington, DC, United States, ²Allied Research Society, Barranquilla, Colombia, ³U.S. Army Medical Research Institute for Infectious Disease, Washington, DC, United States, ⁴University of Nebraska, Lincoln, NE, United States, ⁵University of California, San Diego, CA, United States

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CHIKUNGUNYA - A RE-EMERGED TROPICAL DISEASE - DEVELOPMENT OF A NEW VACCINE

Nina Wressnigg, Urban Lundberg, Andrea Fritzer, Romana Hochreiter, Andreas Meinke
Valneva Austria GmbH, Vienna, Austria

1380

LOW FIDELITY ARBOVIRUS VACCINE STABILITY

Tiffany F. Kautz, Kamil Khanipov, Mathilde Guerbois, Yuriy Fofanov, Scott C. Weaver, Naomi L. Forrester
University of Texas Medical Branch, Galveston, TX, United States

1381

DENGUE AND CHIKUNGUNYA HUMAN TRANSMISSION IN WESTERN AND COASTAL KENYA: GEOGRAPHIC, CLIMACTIC, VECTORIAL AND SOCIODEMOGRAPHIC RISK FACTORS FOR EXPOSURE AND DISEASE

A. Desiree LaBeaud¹, Bryson A. Ndenga², Elysse N. Grossi-Soyster¹, David M. Vu¹, Amy R. Krystosik¹, Harun Njenga Ngugi³, Assaf Anyamba⁴, Richard Damoah⁵, Cornelius Kiptoo², John Vulule², Dunstan Mukoko⁶, Uriel Kitron⁷, Charles H. King⁸, Francis M. Mutuku⁹

¹Stanford University, Stanford, CA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³University of Nairobi/Chuka University, Nairobi/Chuka, Kenya, ⁴Universities Space Research Association and NASA Goddard Space Flight Center, Greenbelt, MD, United States, ⁵Morgan State University and NASA Goddard Space Flight Center, Greenbelt, MD, United States, ⁶Ministry of Health, Nairobi, Kenya, ⁷Emory University, Atlanta, GA, United States, ⁸Case Western Reserve University, Cleveland, OH, United States, ⁹Technical University of Mombasa, Mombasa, Kenya

1382**UTILIZING CERVIDS AS SENTINELS FOR EVALUATION OF EASTERN EQUINE ENCEPHALITIS EMERGENCE IN MAINE**Joan L. Kenney¹, Charles Lubelczyk², Susan P. Elias², Margaret Welch², Robert P. Smith², Sara Robinson³, John-Paul Mutebi¹¹*Centers for Disease Control and Prevention, Fort Collins, CO, United States,*²*Maine Medical Center Research Institute, Scarborough, ME, United States,*³*Maine Centers for Disease Control, Augusta, ME, United States***1383****EPITOPE EXPOSURE ON THE OUTER FACE OF THE CHIKUNGUNYA VIRUS ENVELOPE DETERMINES ANTIBODY NEUTRALIZING EFFICACY**Rachel H. Fong¹, Soma R. Banik¹, Jin Jing², Graham Simmons², Benjamin J. Doranz¹¹*Integral Molecular, Inc., Philadelphia, PA, United States,*²*Blood Systems Research Institute, San Francisco, CA, United States***Flaviviridae – Dengue****1384****EL NIÑO AND DENGUE PREDICTION IN ECUADOR**Rachel Lowe¹, Anna M. Stewart-Ibarra², Desislava Petrova³, Markel García-Díez⁴, Mercy J. Borbor-Cordova⁵, Raul Mejía⁶, Mary Regato⁷, Xavier Rodó³¹*London School of Hygiene & Tropical Medicine, London, United Kingdom,*²*SUNY Upstate Medical University, Syracuse, NY, United States,*³*Barcelona Institute for Global Health (ISGLOBAL), Barcelona, Spain,*⁴*Predictia Intelligent Data Solutions, Santander, Spain,*⁵*Escuela Superior Politécnica del Litoral (ESPOL), Guayaquil, Ecuador,*⁶*National Institute of Meteorology and Hydrology (INAMHI), Guayaquil, Ecuador,*⁷*National Institute of Public Health Research (INSPI), Guayaquil, Ecuador***1385****EFFICACY OF A DENGUE PURIFIED INACTIVATED VACCINE CANDIDATE IN MACAQUES REVEALS INSIGHTS ON ACCURATE CHARACTERIZATION OF POST-CHALLENGE VIRAL REPLICATION AND ON CORRELATES OF PROTECTION**Maria Beatriz Borges¹, Renata Carvalho-Pereira¹, Renato Marchevsky¹, Ygara S. Mendes¹, Luiz Gustavo Mendes¹, Leonardo Diniz-Mendes¹, Marcos Freire¹, Akira Homma¹, Edith Lepine², David Vaughn³, Clarisse Lorin², Marie-Pierre Malice², Elena Caride¹, Lucile Warter²¹*Fiocruz, Rio De Janeiro, Brazil,*²*GlaxoSmithKline Vaccines, Rixensart, Belgium,*³*GlaxoSmithKline Vaccines, Rockville, MD, United States***1386****DENGUE VIRUS SEROPREVALENCE IN MEXICO**Irma Y Amayo Larios¹, Mario Rosas-Rusell², Elsa Sarti³, Laura Tirado-Gomez², Esteban Puentes³, Lilita Castro-Porras², Victoria Castro-Borbonio², Gustavo Olaitz², José Ramos Castañeda¹¹*Instituto Nacional de Salud Pública, Cuernavaca, Mexico,*²*Universidad Nacional Autónoma de México, Ciudad de México, Mexico,*³*Sanofi Pasteur, Ciudad de México, Mexico***1387****DEVELOPING AND OPERATIONALIZING NATIONAL-LEVEL EARLY WARNING AND RESPONSE SYSTEMS (EWARS) FOR DENGUE AND OTHER Aedes-BORNE ARBOVIRAL DISEASES**Piero Olliaro¹, Axel Kroeger², Yesim Tozan³, Joacim Rocklöv⁴¹*Special Programme for Research and Training in Tropical Diseases, Geneva, Switzerland,*²*Center for Medicine and Society, University of Freiburg, Freiburg, Germany,*³*New York University College of Global Public Health, New York, NY, United States,*⁴*Epidemiology and Global Health Unit, Department of Public Health and Clinical Medicine and Umeå Centre for Global Health Research, Umeå University, Umea, Sweden***1388****PATTERNS OF CELLULAR IMMUNITY AFTER INFECTION WITH A HUMAN CHALLENGE STRAIN**Alba Grifoni¹, Michael Angelo¹, Bjoern Peters¹, Aruna D. de Silva², Sean A. Diehl³, Jason Botten³, Johnathan Boyson³, Beth D. Kirkpatrick³, Stephen S. Whitehead⁴, Anna P. Durbin⁵, Alessandro Sette¹, Daniela Weiskopf¹¹*La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States,*²*Genetech Research Institute, Sri Lanka, Sri Lanka,*³*University of Vermont, College of Medicine and Vaccine Testing Center, Burlington, VT, United States,*⁴*National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States,*⁵*Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States***1389****OPTIMIZATION OF THE PLAQUE REDUCTION NEUTRALIZATION TEST ON 96-WELL PLATES FOR DIVERSE DENGUE VIRUS 1-4 STRAINS**Ana Coello Escoto¹, Leah Katzelnick¹, Christian Chavez¹, Henrik Salje², Derek Smith³, Richard Jarman⁴, Derek Cummings¹, Stephen Whitehead⁵¹*University of Florida, Gainesville, FL, United States,*²*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States,*³*University of Cambridge, Cambridge, United Kingdom,*⁴*Walter Reed Army Institute of Research, Silver Spring, MD, United States,*⁵*National Institutes of Health, Bethesda, MD, United States***1390****FLAVIVIRUS SEROPREVALENCE IN THE DEMOCRATIC REPUBLIC OF THE CONGO**Alexandra C. Willcox¹, Matthew Collins¹, Ross Boyce¹, Antoinette Tshetu², Aravinda de Silva¹, Steven R. Meshnick¹¹*University of North Carolina at Chapel Hill, Chapel Hill, NC, United States,*²*Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo***1391****SPACE-TIME INTERACTION OF DENGUE CASES IN AN AGENT-BASED MODEL**

Jeon-Young Kang, Jared Aldstadt

*University at Buffalo, Amherst, NY, United States***1392****IMMUNOGENICITY OF THE CYD TETRAVALENT DENGUE VACCINE (CYD-TDV) USING A COMPRESSED SCHEDULE: RANDOMIZED PHASE II STUDY IN U.S. ADULTS**Judith Kirstein¹, William Douglas², Manoj Thakur³, Mark Boaz², Thomas Papa⁴, Anna Skipetrova⁴, Eric Plennevaux⁴¹*Advanced Clinical Research, West Jordan, UT, United States,*²*Benchmark Research, Sacramento, CA, United States,*³*Sanofi Pasteur, Swiftwater, PA, United States,*⁴*Sanofi Pasteur, Lyon, France***1393****SPATIOTEMPORAL EPIDEMIOLOGY OF DENGUE IN MYANMAR 2012-2016**Win Zaw¹, Zaw Lin², July Ko Ko¹, Neriza M. Pantanilla³, Steeve Ebener³, Richard J. Maude¹¹*Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand,*²*Vector Borne Disease Control, Department of Public Health, Ministry of Health, Nay Pyi Taw, Myanmar,*³*AeHIN GIS Lab, Manila, Philippines***1394****SPATIOTEMPORAL EPIDEMIOLOGY OF DENGUE IN THAILAND 2010-2016**Nattwut Ekampirat¹, Darin Areechokchai², Nipon Chinanonwait², Steeve Ebener³, Richard J. Maude¹¹*Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand,*²*Bureau of Vector Borne Disease, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand,*³*AeHIN GIS Lab, Manila, Philippines*

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INTEGRATED IMMUNOGENICITY ANALYSIS OF A TETRAVALENT DENGUE VACCINE (CYD-TDV) UP TO 4 YEARS AFTER VACCINATION

Claire Vigne¹, Martin Dupuy¹, Aline Richetin-Guilluy¹, Bruno Guy¹, Nicholas Jackson², Matthew Bonaparte³, Branda Hu³, Melanie Saville⁴, Danaya Chansinghakul⁵, Fernando Noriega³, Eric Plennevaux²
¹Sanofi Pasteur, Marcy l'Etoile, France, ²Sanofi Pasteur, Lyon, France, ³Sanofi Pasteur, Swiftwater, PA, United States, ⁴The Janssen Pharmaceutical Companies of Johnson & Johnson, The Hague area, Netherlands, ⁵Sanofi Pasteur, Bangkok, Thailand

1396

SOCIO-ECOLOGICAL FACTORS AND PREVENTIVE ACTIONS ASSOCIATED WITH DENGUE INFECTIONS AT THE HOUSEHOLD-LEVEL IDENTIFIED IN A PROSPECTIVE DENGUE SURVEILLANCE STUDY IN MACHALA, ECUADOR

Aileen Kenneson¹, Efrain Beltran-Ayala², Mercy Borbor-Cordova³, Mark Polhemus¹, Sadie Ryan⁴, Timothy Endy¹, Anna Stewart Ibarra¹
¹SUNY Upstate Medical University, Syracuse, NY, United States, ²Universidad Técnica de Machala, Machala, Ecuador, ³Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador, ⁴University of Florida, Gainesville, FL, United States

1397

DESIALYLATION OF PLATELETS CORRELATES WITH THROMBOCYTOPENIA IN ACUTE DENGUE

Silvita Fitri Riswari¹, Rahajeng N. Tunjungputri², Vesla Kullaya³, Fadel M. Gharishah², Gloria Sheila², Erlieza Roosdhaniana⁴, Philip de Groot⁵, Bacht Alisjahbana¹, Dirk Lefeber⁵, Muhammad Hussein Gasem², Andre J. van der Ven⁵, Quirijn de Mast⁶
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LEVERAGING STUDIES IN RETURNED U.S. TRAVELERS TO COMBAT EMERGING INFECTIOUS DISEASES

Guei-Jiun A. Liou, Matthew Collins, Aravinda de Silva
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MOSQUITO-DELIVERY OF DENGUE VIRUS IN RHESUS MACAQUES DELAYED ONSET AND INCREASED PEAK VIREMIA COMPARED TO SUBCUTANEOUS INOCULATION

Michael K. McCracken¹, Gregory D. Gromowski¹, Lindsey S. Garver¹, Brad A. Goupil², Heather Friberg¹, Jeffrey R. Carrier¹, Christopher N. Mores², David Vaughn³, Edith Lepine³, Clarisse Lorin⁴, Marie-Pierre Malice⁴, Stephen J. Thomas¹, Richard G. Jarman¹, J. Robert Putnak¹, Lucile Warter⁴
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1400

ESTIMATING THE UNDERREPORTING OF DENGUE CASES, ARARAQUARA, BRAZIL, 2015

Expedito J. Luna¹, Gersua M. Figueiredo¹, Sergio R. Campos¹, Jose E. Levi¹, Walter M. Figueiredo², Angela A. Costa², Alvina C. Felix¹, Nathalia S. Souza¹, Maria R. Cardoso¹, Claudio S. Pannuti¹
¹Universidade de Sao Paulo, Sao Paulo, Brazil, ²Universidade de Sao Paulo, Araraquara, Brazil

1401

A PURIFIED INACTIVATED VIRION-BASED DENGUE VACCINE INDUCES NEUTRALIZING ANTIBODIES THAT TARGET QUATERNARY EPITOPES AND PROTECT FROM CHALLENGE IN RHESUS MACAQUES

Laura White¹, Melissa Mattocks¹, Wahala Wahala², Mark Stoops¹, Idia Rodriguez², Melween Martinez³, Petraleigh Maldonado³, Teresa Santiago³, Aravinda de Silva¹, Carlos Sariol³, Robert Johnston⁴
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1402

POTENTIAL IMPACT OF DENGUE VACCINATION STRATEGIES WITH SEROTESTING IN VARIOUS ENDEMIC SETTINGS

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1403

A METHODOLOGICAL FRAMEWORK FOR ECONOMIC EVALUATION OF OPERATIONAL RESPONSE TO VECTOR-BORNE DISEASE FORECASTS

Maquins Odhiambo Sewe¹, Yesim Tozan², Clas Ahlm³, Joacim Rocklöv⁴
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MODELLING THE REQUIREMENTS FOR SUCCESSFUL REACTIVE CASE DETECTION FOR DENGUE IN SINGAPORE

Oliver J. Brady, Adam Kucharski, Sebastian Funk, Stephane Hue, John Edmunds, Martin Hibberd
London School of Hygiene & Tropical Medicine, London, United Kingdom

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DEVELOPMENT OF ENVELOPE-MODIFIED TETRAVALENT DENGUE VIRUS-LIKE PARTICLE VACCINE: IMPLICATION FOR FLAVIVIRUS VACCINE DESIGN

Akane Urakami¹, Mya M. Ngwe Tun², Meng Ling Moi², Atsuko Sakurai¹, Momoko Ishikawa¹, Sachiko Kuno¹, Ryuji Ueno¹, Kouichi Morita², Wataru Akahata¹
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METABOLIC BIOSIGNATURES OF INFECTION: HOW DENGUE, CHIKUNGUNYA AND ZIKA VIRUSES DIFFERENTIALLY PERTURB HOST METABOLIC HOMEOSTASES

Rushika Perera¹, Rebekah C. Gullberg¹, Barbara G. Andre¹, Kimberly Anderson¹, Lionel Gresh², Raquel Burger-Calderon³, Amber Hopf-Jannasch⁴, Angel Balmaseda⁵, Barry Beaty¹, Eva Harris³, Carol D. Blair¹
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PRIOR YEAR'S TRANSMISSION INTENSITY INFORMS CURRENT RISK OF DENGUE VIRUS INFECTION IN THAI VILLAGES

Kathryn B. Anderson¹, Darunee Buddhari², Louis R. Macareo², Alden L. Weg², Damon H. Ellison², Stephen J. Thomas³, Ananda Nisalak², Richard G. Jarman⁴, In-Kyu Yoon⁵, Jared Aldstadt⁶, Daniel H. Libraty⁷, Robert V. Gibbons⁸, Alan L. Rothman⁹, Timothy P. Endy³

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TWO WAYS OR ONE: THE RELATIONSHIP OF ENDEMIC AND SYLVATIC DENGUE VIRUS

Lambodhar Damodaran, Adriano de Bernardi Schneider, Daniel Janies
University of North Carolina at Charlotte, Charlotte, NC, United States

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THE FIRST COMMUNITY-BASED INTERVENTION TO PREVENT DENGUE FEVER IN BURKINA FASO: AN IMPACT EVALUATION STUDY

Samiratou Ouédraogo¹, Tarik Benmarhnia², Emmanuel Bonnet³, Ahmed Sié Barro⁴, Yamba Kafando⁴, Paul André Somé⁴, Diane Saré¹, Florence Fournet³, Valéry Ridde¹

¹University of Montreal Public Health Research Institute, Montréal, QC, Canada, ²University of California, San Diego, CA, United States, ³The French Research Institute for Development, Paris, France, ⁴NGO AGIR, Ouagadougou, Burkina Faso

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DETECTION OF DENGUE AND WEST NILE ANTIBODIES IN HUMANS IN CIUDAD JUAREZ, MEXICO

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THE DYNAMICS OF DENGUE VIRUS INFECTION IN INDONESIA: OBSERVATIONS FROM A NATIONAL, MULTICENTER STUDY OF ACUTE FEBRILE ILLNESS AMONG HOSPITALIZED PATIENTS

Pratiwi Sudarmono¹, Usman Hadi², MH Gasem³, Ketut Tuti Parwati⁴, Ida Laksono⁵, Muhammad Karyana⁶, Abu Tholib⁵, Herman Kosasih⁷, Sophia Siddiqui⁸

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ARTHROPOD EXOSOMES MEDIATE DENGUE INFECTION THROUGH A NOVEL EXOSOMAL MARKER

Hameeda Sultana

Old Dominion University, Norfolk, VA, United States

Flaviviridae - Other

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A COMPARISON OF FOUR SEROLOGICAL METHODS AND TWO RT-PCR ASSAYS FOR DIAGNOSIS AND SURVEILLANCE OF ZIKA

Angel Balmaseda¹, José Víctor Zambrana², Damaris Collado², Karla González¹, Nadezna García¹, Saira Saborio¹, Cristhiam Cerpas¹, Andrea Nuñez¹, Douglas Elizondo², Jesse J. Waggoner³, Davide Corti⁴, Raquel Burger-Calderon⁵, Guillermina Kuan⁶, Eva Harris⁵

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DIFFERENTIATING ZIKA AND DENGUE VIRUS INFECTIONS WITH A LINEAR PEPTIDE ARRAY

Emma L. Mohr¹, John C. Tan², Adam Bailey¹, Adam Ericson¹, Connor R. Buechler¹, Dawn M. Dudley¹, Christina M. Newman¹, Mariel S. Mohns¹, Meghan E. Breitbart¹, Laurel M. Stewart¹, Sarah J. Barilovits², Jigar Patel², David H. O'Connor¹

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(ACMCIP Abstract)

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ASSESSMENT OF SEXUAL TRANSMISSION POTENTIAL OF SPONDWENI SEROGROUP VIRUSES

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Centers for Disease Control and Prevention, Fort Collins, CO, United States

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LONG TERM ASYMPTOMATIC DETECTION OF VIRAL RNA IN URINE AND SALIVA FOLLOWING ACUTE ZIKA INFECTION IN NICARAGUA 2016 - 2017

Yaoska Reyes¹, Natalie Bowman², Edwing Centeno¹, Matthew Collins², Sylvia Becker-Dreps², Aravinda de Silva², Filemon Bucardo¹

¹National Autonomous University of Leon, Nicaragua, Leon, Nicaragua, ²School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

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A NOVEL MOLECULAR ASSAY FOR THE DETECTION OF ZIKA RNA IN WHOLE BLOOD AND URINE SAMPLES

Nikolay Sergeev

Theranos, Palo Alto, CA, United States

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POTENT AND BROADLY NEUTRALIZING DOMAIN II ANTIBODIES INDUCED DURING ACUTE ZIKA VIRUS INFECTION OF A PREVIOUSLY DENGUE-EXPOSED INDIVIDUAL

Anushka T. Ramjag¹, Alusha Mamchak², Kai Lu³, Ngan Nguyen², Edgar Davidson⁴, Benjamin J. Doranz⁴, Guy Cavet², Christine V. Carrington¹, Graham Simmons³

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HUMAN PRIMARY CELL IMMUNE RESPONSES TO FLAVIVIRUSES ARE MODULATED BY BOTH THE VIRAL SPECIES AND THE AGE OF THE DONOR

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(ACMCIP Abstract)

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ZIKA VIRUS INFECTION IN HUMAN SERTOLI CELLS INDUCES ROBUST ANTIVIRAL DEFENSE RESPONSE AND COMPROMISES BLOOD-TESTES BARRIER INTEGRITY

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¹*University of Hawaii, Honolulu, HI, United States*, ²*University of Texas Medical Branch, Galveston, TX, United States*

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SEARCHING FOR ZIKA VIRUS IN INDIA

Govindakarnavar Arunkumar¹, S. Robin¹, Sushama Aswathyraj¹, Giselle D'Souza¹, Sasidharan Pillai Sabeena¹, Devadiga Santhosh¹, Abdulmajeed Jazeel¹, Jayaram Anup¹, Suresh Prabhu¹, Revti Bhaskar¹, Anjali Aithal¹, Hindol Maity¹, Anitha Jagadesh¹, Nittur Sudheesh¹, Mala Chhabra², Pradeep Khasnobis², Srinivas Venkatesh², Jagdish Prasad³, Kayla F. Laserson⁴
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PROLONGED RNA SHEDDING OF ZIKA VIRUS (ZIKV) AND CHIKUNGUNYA VIRUS (CHIKV) DURING ZIKV AND CHIKV CO-INFECTION IN DIFFERENT COMPARTMENTS

Marta G. Cavalcanti, Mauro J. Cabral-Castro, Eduardo Scarlatelli Pimenta, Larissa S. Santana, Jorge L. Gonçalves, José Mauro Peralta
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil

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LACK OF EVIDENCE OF ANTECEDENT ZIKA VIRUS INFECTION IN GUILLAIN-BARRE SYNDROME PATIENTS HOSPITALIZED IN A REFERRAL HOSPITAL IN SOUTH INDIA, 2014 - 2016

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SCREENING OF RECOMBINANT ZIKA VIRUS PROTEINS AS ANTIGENS TO DEVELOP AN ELISA FOR THE SERODIAGNOSIS OF ZIKA VIRUS INFECTION

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PUBLIC HEALTH AT THE FOREFRONT: BUILDING LOCAL HEALTH DEPARTMENT CAPACITY TO IMPROVE ZIKA PREGNANCY AND BIRTH DEFECTS SURVEILLANCE AND REFERRAL TO SERVICE IN UNITED STATES (US)

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PREVALENCE OF PREVIOUS AND RECENT INFECTIONS BY ZIKA VIRUS, DENGUE VIRUS AND CHIKUNGUNYA VIRUS IN PREGNANT WOMEN AND SURVEILLANCE FOR CONGENITAL ZIKA INFECTIONS IN SALVADOR, BRAZIL

Joao V. Oliveira¹, Lorena Pessoa¹, Claudio Magalhães¹, Jessica G. Lima¹, Daniel A. Carvalho¹, Tereza C. Xavier², Rosana Pellegrini², Gloryane Bessa², Eduardo M. Figueiredo², Juan I. Calgano², Fernando Romero², Daiana dos Santos¹, Aline Oliveira¹, Paloma Silva¹, Marta Giovanetti¹, Jaqueline Goes¹, Breno Lima¹, Marcia W. Carneiro¹, Alan Duarte³, Fernanda W. Lima³, Luiz C. Alcantara¹, Isadora C. de Siqueira¹
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GROWTH OUTCOMES OF NEWBORNS BORN TO WOMEN BORN TO WOMEN WITH POSITIVE ZIKA SCREENS DURING PREGNANCY, HIMA SAN PABLO BAYAMÓN CASE SERIES

Maribel Campos¹, Yolymer Poventud², José Nieves³, Javier Noriega³, Rey Hernandez⁴, Alexandra Benitez⁴, Lizzie Ramos³, Wanda Cubero⁴, Josefina Romaguera³, Vivek Nerurkar⁵
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BREAST MILK AND ZIKA VIRUS INFECTION IN PREGNANCY, THAILAND 2016 - 2017

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FUNCTIONAL DIFFERENCES AND HOST ANTIVIRAL RESPONSES TO NICARAGUAN ZIKA VIRUS AND PROTOTYPE STRAINS REVEALED IN FIRST-TRIMESTER VILLUS EXPLANTS

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POTENT ACTIVITY OF THE BROAD SPECTRUM INHIBITOR FAVIPIRAVIR ON *IN VITRO* USUTU VIRUS REPLICATION AND IN A MOUSE INFECTION MODEL

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Flaviviridae - West Nile

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SERODIAGNOSIS OF FLAVIVIRUS INFECTIONS AMONG THE BAKA PYGMY POPULATIONS IN CAMEROON USING AN IN-HOUSE MAC-ELISA

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MODELING THE SPREAD OF MOSQUITO-BORNE DISEASE IN THE NORTHERN GREAT PLAINS OF THE U.S.

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INCREASED ANTIBODY DIVERSITY GENERATED BY ADJUVANTS CORRELATES WITH PROTECTION IN RECOMBINANT PROTEIN-BASED FLAVIVIRAL VACCINES

Neal Scott Van Hoesen¹, Emily Gage¹, Steven Wiley², Sean Gray³, Richard A. Bowen⁴, David E. Clements⁵, D. Elliot Parks⁵, Christopher B. Fox¹, Steven G. Reed¹, Dan Stinchcomb¹, Rhea N. Coler¹
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Viruses - Other

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USE OF QUANTITATIVE REAL-TIME POLYMERASE CHAIN REACTION TO IDENTIFY NOROVIRUS DIARRHEA IN INDIAN CHILDREN IN THE FIRST 3 YEARS OF LIFE: A REANALYSIS OF A BIRTH COHORT STUDY

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POPULATION STRUCTURE AND TRANSMISSION DYNAMICS OF NOROVIRUS IN A PERUVIAN BIRTH COHORT

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PRELIMINARY REPORT OF A STUDY ON EFFECTIVENESS, SAFETY AND ACCEPTABILITY OF CERVICAL CANCER SCREENING USING VISUAL INSPECTION WITH ACETIC ACID AND COLD COAGULATION BASED SINGLE VISIT APPROACH IN YAT SAUK TOWNSHIP IN SHAN STATE, MYANMAR

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Juana Mercedes del Valle-Mendoza¹, Miguel Angel Aguilar-Luis¹, Carlos Palomares-Reyes¹, Fernando Vásquez-Achaya¹, Jorge Bazán Mayra², Victor Zavaleta-Gavidea², Daniel Cornejo-Pacherres², Wilmer Silva-Caso¹, Pablo Weilg¹
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Nicole A. Hoff¹, Patrick Mukadi², Daniel Mukadi², Reena H. Doshi¹, Joseph Wasiswa³, Vivian H¹, Russell Williams², Rachel Mutombe², Alexis Mwanza², Beniot Kebela-Ilunga⁴, Emile Okitolonda-Wemakoy⁵, Jean-Jacques Muyembe-Tamfum², Anne W. Rimoin¹
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SEROPREVALENCE OF POLIOVIRUS ANTIBODIES SURVEY IN MALI, GUINEA AND CÔTE D'IVOIRE

Guindo Oumar¹, Abdoul Habib Beavogui², Daniel Kouadio Ekra³, Mahamadou Diakite¹, Susan Orsega⁴, Sophia Siddiqui⁵, Mach Ondrej⁶, Seydou Doumbia¹
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MAPPING ANTIBODY EPITOPES ON THE EBOLA VIRUS ENVELOPE PROTEIN BY SHOTGUN MUTAGENESIS

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1442**HOUSEHOLD LEVEL MEASLES VACCINATION COVERAGE AND ASSOCIATED HISTORY OF MEASLES DISEASE AMONG CHILDREN 9-59 MONTHS IN THE DEMOCRATIC REPUBLIC OF CONGO**

Hayley Ashbaugh¹, Robert Weiss¹, Adva Gadoth¹, Reena H. Doshi¹, Patrick Mukadi², Nicole A. Hoff¹, Jean-Jacque Muyembe³, Emile Okitolonda⁴, Anne W. Rimoin¹

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1443**FORECASTING AND ASSESSMENT OF AUTOCHTHONOUS YELLOW FEVER OUTBREAK IN BRAZIL**

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1444**IDENTIFICATION OF CONSERVED MOTIFS IN VIRUSES BELONGING TO GUAMA SEROGROUP (ORTHOBUNYAVIRUS, BUNYAVIRIDAE)**

Valéria L. Carvalho, Márcio R. Nunes, Daniele B. Medeiros, Sandro P. Silva, Clayton P. Lima, Jedson F. Cardoso, João L. Vianez Júnior, Davi T. Inada, Sueli G. Rodrigues, Pedro F. Vasconcelos
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1445**ANALYTICAL PERFORMANCE OF THE FILMARRAY® GLOBAL FEVER PANEL**

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1446**DETECTION OF MLB ASTROVIRUS IN A PEDIATRIC HOSPITAL AT LIMA-PERÚ**

Macarena Vittet¹, Giuliana Oyola¹, Gerardo Sanchez¹, Mayra Ochoa¹, Fabiola Colquechagua-Aliaga², Dante Figueroa-Quintanilla², Holger Mayta¹, Mayuko Saito³, Sarah-Blythe Ballard⁴, Robert Gilman⁴
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Arthropods/Entomology - Other

1447**MIDGUT MICROBIOTA COMPOSITION FROM FIELD COLLECTED AND EMERGED MOSQUITOES ANOPHELES ALBIMANUS FROM COLOMBIA**

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1448**SPATIAL TOOLS FOR OPTIMIZING TSETSE CONTROL IN GAMBIAN SLEEPING SICKNESS FOCI**

Michelle C. Stanton, Johan Esterhuizen, Ana Krause, Steve J. Torr
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1449**DEVELOPMENT OF MOLECULAR METHODS FOR THE DETECTION AND QUANTIFICATION OF PHLEBOTOMINE SAND FLY LARVAL DNA IN SOIL**

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1450**ENTOMOLOGICAL STUDY ON A RECENT MALARIA OUTBREAK IN ANKILILOAKA, A SEMI-ARID AREA IN THE SOUTHWESTERN REGION OF MADAGASCAR**

Jacquelin Randriamihaja, Alice Zilera Suzanantsoa, Raharimanga Rakotoson, Teddy Michael Andriantsolofomboahangy, Memy Malala Heriniaina Andriamizehy, Jocelyn Ratovonjato, Arsène Ratsimbasa
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1451**GENERATING LAB-REARED MOSQUITOES WITH FIELD-RELEVANT MICROBIOMES**

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1452**EVALUATING GRAVID Aedes TRAPS AND PROKOPACK ASPIRATORS FOR Aedes albopictus SURVEILLANCE IN TWO NEIGHBORHOODS OF ATLANTA, GEORGIA**

Rebekah Blakney, Jessica Stephens, Uriel Kitron, Gonzalo Vazquez Prokopec
Emory University, Atlanta, GA, United States

1453**ASSESSMENT OF POTENTIAL SAND FLY VECTORS IN LEISHMANIASIS AND BARTONELLOSIS ENDEMIC AREAS IN THE ECUADORIAN SIDE OF THE ECUADOR-PERU BORDER**

Andres Carrasco¹, Victor Zorrilla², Hector Olalla³, Leonardo Fárez-Noblecilla⁴, Liz Espada², Marisa Lozano², Craig A. Stoops², Gissella Vasquez², Renato León¹
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1454**THE RURAL-URBAN GRADIENT OF HOUSE INFESTATION WITH TRIATOMA INFESTANS IN AN ENDEMIC MUNICIPALITY OF THE ARGENTINE CHACO REGION**

María Sol Gaspe, María del Pilar Fernandez, Marta V. Cardinal, Gustavo F. Enriquez, Lucía I. Rodríguez-Planes, Natalia P. Macchiaverna, Ricardo E. Gürtler
Universidad de Buenos Aires, Consejo Nacional de Investigaciones Científicas y Técnicas, Instituto de Ecología, Genética y Evolución de Buenos Aires (IEGEB), Facultad de Ciencias Exactas y Naturales, Ciudad Autónoma de Buenos Aires, Argentina

1455**CHALLENGES IN MEASURING AND ANALYZING VECTOR CONTROL INTERVENTIONS: INDICATORS, BASELINES AND DEFINITIONS**

Molly Robertson¹, Christelle Gogue¹, Kenzie Tynuv¹, Joseph Wagman¹, Keith Mangam², David Larsen³, Francisco Saute⁴, Baltazar Candrinho⁵, John Miller¹, Richard Steketee¹, Jeff Bernson¹
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1456**ENVIRONMENTAL RISK FACTORS OF TUNGIASIS IN HAITI: A NEGLECTED DISEASE**

Elisha R. Musih, Leslie Valenzuela, Heather S. Davies, Michael von Fricken
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1457**THE STEROID HORMONE 20-HYDROXYECDYSONE (20E) TRANSCRIPTIONALLY REGULATES THE MIDGUT OF ANOPHELES GAMBIAE AND Aedes Aegypti TO PROMOTE BACTERIAL EXPANSION**

Sarah Sneed, Michael Povelones
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Mosquitoes - Biochemistry and Molecular Biology

1458**RETENTION OF DUPLICATED LIGHT AND VISUAL RECEPTORS IN MOSQUITO LINEAGES BY POSITIVE SELECTION AND DIFFERENTIAL EXPRESSION**

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1459**THE MIDGUT ESCAPE BARRIER FOR CHIKUNGUNYA VIRUS IN Aedes Aegypti IS ASSOCIATED WITH PROTEINASE ACTIVITY**

Shengzhang Dong, Asher Kantor, Jingyi Lin, Alexander W. Franz
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1460**DETERMINING THE EXPRESSION PROFILE OF SPERMATOGENESIS GENE HOMOLOGUES THROUGHOUT ALL DEVELOPMENTAL STAGES OF ANOPHELES ALBIMANUS, MAIN MALARIA VECTOR IN CENTRAL AMERICA**

Andrea Ramos, Mabel Taracena, Claudia Paiz, Pamela Flores, Pamela Pennington
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(ACMCIP Abstract)

1461**IDENTIFICATION OF METABOLIC CHOKE POINTS FOR CONTROLLING DENGUE VIRUS TYPE 2 INFECTION IN THE MIDGUT OF Aedes Aegypti MOSQUITOES**

Nunya Chotiwan¹, Barbara G. Andre¹, Irma Sanchez-Vargas¹, Jeffrey M. Grabowski², Amber Hopf-Jannasch², Erik Gough², Ernesto Nakayasu², Carol D. Blair¹, Catherine A. Hill², Richard J. Kuhn², Rushika Perera¹
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(ACMCIP Abstract)

1462**THE STRUCTURE AND FUNCTION OF ALBICIN: A NEW WORLD ANOPHELINE MOSQUITO SALIVARY PROTEIN THAT INHIBITS OF THE ALTERNATIVE PATHWAY OF THE HUMAN COMPLEMENT**

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1463**STEROID HORMONE SIGNALING IN ANOPHELES GAMBIAE MOSQUITOES AFFECTS THE SPOROGONIC CYCLE OF PLASMODIUM FALCIPARUM PARASITES**

Kristine Werling, Maurice Itoe, Douglas Paton, Flaminia Catteruccia
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1464**MULTIPLE TISSUE MICRORNA TRANSCRIPTOME-WIDE ANALYSIS IN THE MALARIA VECTOR, ANOPHELES GAMBIAE S.S.**

William Bart Bryant, Bradley J. Olson, Kristin Michel
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1465**GENOMIC AND PHYSIOLOGIC CHARACTERIZATION OF SERRATIA MARCESCENS ISOLATED FROM THE GUT OF ANOPHELES STEPHENSI**

Shicheng Chen, **Edward D. Walker**
Michigan State University, East Lansing, MI, United States

1466**A HETERODIMER OF AALRIM1 AND AAAPL1 IS REQUIRED FOR Aedes Aegypti IMMUNE REACTIONS TARGETING DIVERSE PATHOGENS**

Letitia K. Thompson, Sarah D. Sneed, Greg L. Sousa, Elizabeth Edgerton, **Michael Povelones**
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(ACMCIP Abstract)

1467**FABULOUS SIGNALING: THE IMPACT OF THE TOLL PATHWAY ON MOSQUITO-PATHOGEN INTERACTIONS**

Kristin Michel, Victoria L. Rhodes
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1468**PYRETHROIDS MAINTAIN REPELLENT EFFECT ON Aedes Aegypti MOSQUITOS WITH KNOWN RESISTANCE**

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INVESTIGATING ENDECTOCIDE USE IN LIVESTOCK AS A TOOL TO HELP ELIMINATE RESIDUAL MALARIA IN CENTRAL AMERICA

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INSECTICIDE RESISTANCE IN JAMAICAN *Aedes aegypti*

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OUTCOMES OF A SURVEY OF AGRICULTURAL INSECTICIDE USE PRACTICES IN A MALARIA ENDEMIC SETTING IN RURAL COTE D'IVOIRE

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ANOPHELES GAMBIAE S.L. INSECTICIDE RESISTANCE OF IN KINSHASA, IDJWI ISLAND (SUD KIVU), LUBUMBASHI (HAUT KATANGA) AND KWILU-NGONGO SUGARCANE PLANTATIONS (KONGO CENTRAL) IN DEMOCRATIC REPUBLIC OF THE CONGO

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METHANOL KILLS *ANOPHELES COLUZZII* MOSQUITOES DURING *IN VITRO* FEEDING EXPERIMENTS

Fatoumata I. Ballo, Aminatou Kone, Ali Kodio, Sekou Koumare, Diagassan Doumbia, Souleymane Dama, Dinkorma Ouologuem, Bakary Fofana, Mamadou Tekete, Adama Dao, Mamadou B. Coulibaly, Ogobara K. Doumbo, Abdoulaye Djimde
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INSECTICIDE RESISTANCE AND MECHANISMS IN *Aedes* ARBOVIRAL VECTORS: A WORLDWIDE SYNTHESIS

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EXON-ENRICHED LIBRARIES OF DELTAMETHRIN RESISTANT *Aedes aegypti* REVEAL STRONG POSITIVE SELECTION AT THE VOLTAGE GATED SODIUM CHANNEL

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NOOTKATONE: A NATURALLY OCCURRING, NEXT-GENERATION PEST MANAGEMENT STRATEGY

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HOLE SIZE AND LOCATION AND INTERACTION WITH INSECTICIDAL CONTENT OF BEDNETS FOR PERSONAL AND COMMUNITY PROTECTION FROM *ANOPHELES GAMBIAE*

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Mosquitoes - Molecular Genetics

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DIFFERENTIAL TRANSCRIPTOMIC RESPONSES ASSOCIATED WITH DENV EIP IN *Aedes aegypti*

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THE ROLE OF PARTICIPANT TRACKERS IN THE PREVAIL I EBOLA VACCINES TRIAL IN LIBERIA

Joseph B. Cooper, Bartholomew Wilson, Julia Endee, Julia Lysander, Khalipha Bility, Jestina Doe Anderson, Laurie Cooper, Hassan Kiawu, Patrick Falley, Elizabeth Higgs

Partnership for Research on Ebola Virus in Liberia, Monrovia, Liberia

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EVIDENCE-BASED GUIDELINES FOR SUPPORTIVE CARE OF PATIENTS WITH EBOLA VIRUS DISEASE

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GEOHEALTH: A GEOSPATIAL SURVEILLANCE AND RESPONSE SYSTEM RESOURCE FOR VECTOR BORNE DISEASE IN THE AMERICAS

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Norohaingo Andrianaivo, Eliane Razafimandimby, Jean Pierre Rakotovoava, Marc Eric Rajaonarison Razakariasy, Lalanirina Ravony
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Malaria - Biology and Pathogenesis

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A PVDBP MONOCLONAL ANTIBODY RECOGNIZES A CONSERVED EPITOPE IN *PLASMODIUM FALCIPARUM* AND *P. CHABAUDI* ANTIGENS

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PITTING-RELATED PERSISTENCE OF *P. FALCIPARUM* HRP2 IN PERIPHERAL BLOOD PREDICTS POST-ARTESUNATE DELAYED HEMOLYSIS IN SEVERE MALARIA

Alioune Ndour¹, Sébastien Larréché², Oussama Mouri³, Nicolas Argy³, Frédéric Gay³, Camille Rousset¹, Stéphane Jauréguiberry³, Claire Périllaud³, Dominique Langui⁴, Sylvestre Biligui³, Nathalie Chartrel³, Audrey Mérens², Eric Kendjo³, Arjen Dondorp⁵, Martin Danis³, Sandrine Houzé³, Serge Bonnefoy⁶, Thellier Marc³, Charlie Woodrow⁵, Pierre Buffet¹

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PLASMODIUM FALCIPARUM ERYTHROCYTE MEMBRANE PROTEIN 1 (PFEMP1) VARIANT EXPRESSION PROFILES IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIA FROM WESTERN KENYA

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SEVERE DEFICIENCIES OF AMINO ACID PRECURSORS FOR L-ARGININE *DE NOVO* BIOSYNTHESIS IN PEDIATRIC *FALCIPARUM* MALARIA: IMPLICATIONS FOR NITRIC OXIDE INSUFFICIENCY

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(ACMCIP Abstract)

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DIFFERING RECEPTOR EXPRESSION IN BRAIN MICROVESSELS DERIVED FROM WHITE AND GRAY MATTER: IMPLICATIONS FOR CEREBRAL MALARIA

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BIOENERGETIC ANALYSIS REVEALS OXPHOS ACTIVITY IN THE LATE STAGE GAMETOCYTES

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THE *PLASMODIUM FALCIPARUM* 130 KDA MAURER'S CLEFT PROTEIN IS A RESIDENT MAURER'S LEFT PROTEIN PERIPHERALLY ASSOCIATED WITH THE MEMBRANES OF THE CLEFTS

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ROLE OF PKA SIGNALING IN ARTEMISININ INDUCED DORMANCY IN RING STAGE *P. FALCIPARUM*

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RESISTANCE TO A NONCOVALENT SELECTIVE PROTEASOME INHIBITOR IN *PLASMODIUM FALCIPARUM*

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3D BRAIN MICROVESSEL MODEL FOR THE STUDY OF CEREBRAL MALARIA PATHOGENESIS

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Malaria - Chemotherapy and Drug Resistance

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David Adams¹, Femi Taiwo¹, Valerie Adams², Joseph Miller²

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HUMANIZED MOUSE MODELS TO BOOST ANTIMALARIAL DRUG DISCOVERY

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Tres Cantos Medicines Development Campus. Diseases of the Developing World. GlaxoSmithKline, Tres Cantos, Spain

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A NATIONAL MOLECULAR SURVEILLANCE PROGRAM FOR THE DETECTION OF *PLASMODIUM FALCIPARUM* MARKERS OF RESISTANCE TO ANTIMALARIAL MEDICATIONS IN HAITI

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RANDOMIZED CLINICAL TRIAL: EFFICACY OF ARTEMISININ COMBINATION THERAPIES FOR UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN SELINGUE, MALI, 2016

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COMPARATIVE EFFICACY OF ARTEMETHER-LUMEFANTRINE AND DIHYDROARTEMISININ-PIPERAQUINE FOR TREATMENT OF UNCOMPLICATED MALARIA IN CHILDREN IN UGANDA

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ASSESSMENT OF EFFICACY OF ARTESUNATE AMODIAQUINE IN DISTRICT OF IFANADIANA MADAGASCAR

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SINGLE DOSE SUPERIOR PHARMACODYNAMICS OF PYRONARIDINE COMPARED TO ARTESUNATE, CHLOROQUINE AND AMODIAQUINE IN A HIGH DENSITY MURINE MALARIA-LUCIFERASE MODEL

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INVESTIGATING THE PRESENCE OF MUTATIONS IN THE PFKELCH13 GENE IN CHILDREN FROM UGANDA AFRICA WITH SEVERE MALARIA AND ASYMPTOMATIC PARASITEMIA

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Eric Rogier¹, Curtis Huber¹, Camelia Herman¹, Stella Chenet², Baby Pierre³, Ruth Namuyinga¹, Kimberly Mace¹, Ito Journel⁴, Sarah Volkman², Jacques Boncy⁴, Ventkatachalam Udhayakumar¹, Jean F. Lemoine³, Michelle Chang¹
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PHENOTYPIC AND GENOTYPIC ANALYSIS OF DIHYDROARTEMISININ-RESISTANT MALARIA PARASITES PLASMODIUM FALCIPARUM

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EVALUATION OF THE USE OF PARENTERAL ARTESUNATE BY CARE PROVIDERS FOR THE MANAGEMENT OF SEVERE CASES OF MALARIA IN SENEGAL

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CHARACTERIZATION OF ARTEMISININ RESISTANCE IN THREE CONTINENTS: A MULTICENTER TRIAL IN PERU, KENYA AND THAILAND IN PATIENTS WITH UNCOMPLICATED P. FALCIPARUM MALARIA

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BASELINE MOLECULAR DATA BEFORE SCALING-UP OF SEASONAL MALARIA CHEMOPREVENTION IN SEVEN COUNTRIES ACROSS THE SAHEL

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UNDERSTANDING AND OPTIMIZING OPERATIONAL SEASONAL MALARIA CHEMOPREVENTION THROUGH DATA ANALYSIS AND MODELING: THE EXAMPLE OF BURKINA FASO

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INVESTIGATING THE MUTATIONAL PATHWAYS TO RESISTANCE FOR CLINICALLY-RELEVANT *PLASMODIUM FALCIPARUM* DIHYDROOROTATE DEHYDROGENASE INHIBITORS

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PHARMACODYNAMIC META-ANALYSIS OF HUMAN *P. FALCIPARUM* MONOTHERAPY DRUG TRIALS

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Malaria - Diagnosis

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DETECTION OF *PLASMODIA* SPP. INFECTION BY MERIDIAN ILLUMIGENE[®] MALARIA COMPARED TO REFERENCE MICROSCOPY AND REAL-TIME PCR

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MALARIA AND DENGUE INFECTIONS AMONG PATIENTS ATTENDING TERTIARY CARE AND HEALTH CARE CENTERS IN AND AROUND MANGALURU, INDIA: A PROSPECTIVE STUDY

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PERFORMANCE OF STANDARD AND HIGH SENSITIVITY MALARIA RAPID DIAGNOSTIC TESTS FOR THE DETECTION OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM* INFECTIONS

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TRACKING HEMOZOIN LEVELS IN SYMPTOMATIC PATIENTS POST TREATMENT USING MAGNETO-OPTICAL DETECTION, MOD

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LIMIT OF DETECTION OF MAGNETO-OPTICAL DETECTION, MOD, ON SAMPLES OF *P. VIVAX* AND *P. FALCIPARUM*

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DISTRICT-BASED SUPERVISION AND MENTORSHIP PROGRAM FOR IMPROVING THE QUALITY OF MALARIA RAPID DIAGNOSTIC TESTING IN UGANDA 2014- 2016

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SIMULTANEOUS DETECTION OF FOUR HUMAN MALARIA SPECIES FROM WHOLE BLOOD, GIEMSA STAINED SLIDES AND DRIED BLOOD SPOTS ON FILTER PAPER

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INTRODUCING MALARIA RAPID DIAGNOSTIC TESTS INTO NON-FORMAL PRIVATE SECTOR OUTLETS IN MYANMAR: PRE-POST RESULTS FROM CROSS SECTIONAL STUDIES

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MOLECULAR RE-EXAMINATION OF FALSE-NEGATIVE HISTIDINE-RICH PROTEIN 2 (HRP2)-BASED RAPID DIAGNOSTIC TESTS (RDTs) FOR MALARIA

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(ACMCIP Abstract)

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A HIGHLY SENSITIVE MULTIPLEXED BEAD-BASED IMMUNOASSAY FOR POTENTIAL MALARIA DIAGNOSTICS

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WHO IS MORE LIKELY TO PERFORM MALARIA RAPID DIAGNOSTIC TESTS IN THE NON-FORMAL SECTOR IN MYANMAR?

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THE IMPORTANCE OF EXTERNAL QUALITY ASSESSMENT IN FOCUSING IMPLEMENTATION OF QUALITY IMPROVEMENT PROGRAMS ON MALARIA MICROSCOPY IN TANZANIAN MILITARY HEALTH FACILITIES

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THE USE OF FIONET™ TECHNOLOGY IN MALARIA SURVEILLANCE AND EXTERNAL QUALITY CONTROL OF RAPID DIAGNOSTIC TESTS IN MILITARY HEALTH FACILITIES IN TANZANIA

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CROSS-SECTIONAL ANALYSIS IN YOUNG NON-PREGNANT AND PREGNANT WOMEN IN BURKINA FASO OF ASSOCIATIONS BETWEEN BIOMARKERS OF IRON STATUS AND EFFECT MODIFICATION BY INFLAMMATION AND P. FALCIPARUM INFECTION

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EVALUATION OF PERFORMANCE OF DEKI READER OF MALARIA RAPID DIAGNOSTIC TEST IN RURAL MILITARY HEALTH FACILITIES IN TANZANIA

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DEVELOPMENT OF A MULTIPLEX ASSAY FOR SIMULTANEOUS QUANTIFICATION OF P. VIVAX AND P. FALCIPARUM INFECTION

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COMPARISON OF COMMERCIALY AVAILABLE MOBILE MEDICAL APPLICATIONS (MMAS) FOR INTERPRETING MALARIA RAPID DIAGNOSTIC TEST (RDT) RESULTS

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Malaria - Drug Development - Preclinical Studies

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CAUSAL CHEMOPROPHYLACTIC ACTIVITY OF PRIMAQUINE - QUINOXALINE HYBRIDS

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ACTIVITY OF THE HDAC INHIBITOR AR-42 IN A MURINE MALARIA MODEL

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GAMETOCYTIDAL AND CURATIVE LIVER AND BLOOD STAGE ANTIMALARIAL ACTIVITY OF CETHROMYCIN

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DRUG INTERACTIVITY STUDIES TO DEFINE SYNERGISTIC ANTI-MALARIAL COMBINATORIAL REGIMES FOR EMETINE DIHYDROCHLORIDE

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TAFENOQUINE IS NOT NEUROTOXIC FOLLOWING SUPERTHERAPEUTIC DOSING IN RATS

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PYRAZINE, A NOVEL CLASS OF ORALLY ACTIVE ANTIMALARIAL. MAKING PROGRESS TOWARDS HIGH QUALITY MOLECULES

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PRIMAQUINE - 1,4-DI-N-OXIDE QUINOXALINE HYBRIDS: POTENTIAL TISSUE SCHIZONTICIDE ACTIVITY IN MALARIA

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RESISTANCE SELECTION APPROACH TO IDENTIFY AND VALIDATE TARGETS FOR ANTIMALARIAL DRUG DISCOVERY

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CHROMOBACTERIUM CSP_P MEDIATES ITS ANTIMALARIAL ACTIVITY THROUGH SECRETION OF THE HDAC INHIBITOR ROMIDEPSIN

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DEVELOPING LONG-TERM MALARIAL CHEMOPROPHYLACTIC COMPOUND RELEASING IMPLANTS

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PROVEBLUE, METHYLENE BLUE, AS AN ANTIMALARIAL DRUG

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NOVEL LIVER STAGE ACTIVE ANTIMALARIALS

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NATURAL PRODUCT INSPIRED NOVEL ANTIMALARIALS

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OPTIMIZING THE *IN VIVO* PHARMACODYNAMICS OF THE *P. FALCIPARUM* APICOPLAST INHIBITORS FOSMIDOMYCIN AND CLINDAMYCIN

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(ACMCIP Abstract)

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IDENTIFYING HEXAHYDROQUINOLINES AS NEW ANTIMALARIALS WITH POTENT BLOOD STAGE AND TRANSMISSION-BLOCKING ACTIVITY

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Malaria – Elimination

1602

MIGRATION AS A DETERMINANT OF MALARIA IN SURINAME: CHALLENGES IN REACHING ELIMINATION

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1603

FORMATIVE ASSESSMENT TO UNDERSTAND AND TARGET HIGH-RISK POPULATIONS FOR MALARIA INFECTION, CHAMPASAK PROVINCE, LAO PDR

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DHIS2 TRACKER DASHBOARD AS A TOOL TO CATALYZE DATA USE IN THE MALARIA ELIMINATION SETTING OF ZIMBABWE

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THE PERFORMANCE OF G6PD RAPID DIAGNOSTIC TESTS IN CAMBODIA AND IMPLICATIONS FOR PRIMAQUINE THERAPY

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IMPACT OF INDOOR RESIDUAL SPRAYING WITH PRIMIPHOS-METHYL IN THE CONTEXT OF A COMPREHENSIVE MALARIA ELIMINATION STRATEGY IN SOUTHERN PROVINCE ZAMBIA

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MOVEMENT PATTERNS ASSOCIATED WITH MALARIA RISK DERIVED FROM OUTPATIENT REGISTER BOOKS IN AMHARA REGION, ETHIOPIA

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COST AND EFFECTIVENESS ANALYSIS OF MALARIA CONTROL IN SENEGAL: "THEORETICAL" SINGLE INTERVENTIONS VS. "ACTUAL" PACKAGES OF INTERVENTIONS

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MALARIA PARASITEMIA AND SEROLOGICAL PREVALENCE IN NEAR-ZERO TRANSMISSION SETTINGS IN ETHIOPIA

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OPTIMIZING HIGHLY FOCAL MASS DRUG ADMINISTRATION TARGETS FOR MALARIA ELIMINATION ACCELERATION OVER NETWORKED POPULATIONS: THE CASE OF HAITI

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POPULATION GENETIC DIVERSITY OF SAMPLES FROM THE 2012 AND 2015 MALARIA INDICATOR SURVEYS, ZAMBIA

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ADAPTING REACTIVE CASE DETECTION FOR MALARIA IN FOREST WORKERS IN ACEH, INDONESIA

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FIRST-YEAR RESULTS FROM THE COMMUNITY-LED RESPONSES FOR ELIMINATION (CORE) TRIAL ASSESSING THE EFFECTIVENESS OF REACTIVE FOCAL DRUG ADMINISTRATION COMPARED TO REACTIVE FOCAL TEST AND TREAT IN REDUCING *PLASMODIUM FALCIPARUM* INFECTION PREVALENCE AND INCIDENCE IN AN ELIMINATION SETTING IN SOUTHERN PROVINCE, ZAMBIA

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PROGRAMMATIC MASS DRUG ADMINISTRATION IN SOUTHERN PROVINCE, ZAMBIA: AN EVALUATION OF IMPACT AND POSSIBLE SPILL-OVER EFFECTS USING DHIS2 MALARIA CASE INCIDENCE DATA

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MONITORING POPULATION AND TRANSMISSION DYNAMICS OF MALARIA VECTORS ALONG LAKE KARIBA OF SOUTHERN ZAMBIA: IMPLICATIONS FOR THE MALARIA CONTROL AND ELIMINATION PROGRAM

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THE ECONOMIC AND EDUCATIONAL IMPACTS OF A MALARIA ELIMINATION CAMPAIGN IN MOZAMBIQUE

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REACTIVE CASE DETECTION IN A SETTING OF DECLINING TRANSMISSION, SOUTHERN PROVINCE, ZAMBIA

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REACTIVE CASE DETECTION IN TRANSITION TO PROGRAMMATIC SURVEILLANCE, NORTHERN SENEGAL

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Malaria - Epidemiology

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FACTORS ASSOCIATED WITH INTERMITTENT PREVENTIVE TREATMENT OF MALARIA DURING PREGNANCY IN MALI

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IMPACT OF STRATIFICATION METHODS USED TO TARGET INDOOR RESIDUAL SPRAYING IN BIKO ISLAND, EQUATORIAL GUINEA

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VARIATION IN AMBIENT TEMPERATURE DRIVES THE SEASONALITY OF MALARIA PARASITISM IN WILD CHIMPANZEE RESERVOIRS ACROSS EQUATORIAL AFRICA

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SEASONAL MALARIA CHEMOPREVENTION IN ANKILILOAKA, MADAGASCAR

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THE EFFECT OF HOUSING IMPROVEMENTS ON MALARIA IN AFRICA, 2000-2015

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1625

UNDERSTANDING MIGRANT BEHAVIORS AND MALARIA RISK IN AYEYARWADDY REGION, MYANMAR

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MALARIA DISASTER IN VENEZUELA: TIME FOR ACTIONS

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EFFECT OF MALARIA IN THE FIRST TRIMESTER OF PREGNANCY ON FETAL GROWTH: A PRE-CONCEPTIONAL COHORT STUDY IN BENIN

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1628

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DECLINE OF MULTIPLE INFECTIONS OF *PLASMODIUM FALCIPARUM* FROM 2007 TO 2012 AND DIFFERENCE IN MULTIPLE INFECTIONS BETWEEN HUMANS AND MOSQUITOES IN WESTERN KENYA

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1630

AGE-SPECIFIC CHANGES IN THE INCIDENCE OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA: SEASONAL MALARIA CHEMOPREVENTION (SMC) IN AN AREA WITH INTENSE TRANSMISSION: DANGASSA, MALI

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1631

EPIDEMIOLOGICAL TRANSITION OF MALARIA IN GABON: DATA FROM A SENTINEL SITE (MELEN 2010-2016)

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1632

REGIONAL BURDEN OF MALARIA IN PATIENTS PRESENTING WITH FEBRILE ILLNESS IN KENYAN HOSPITALS

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ELUCIDATING THE ROLE OF MOSQUITOES IN DRUG RESISTANT MALARIA EPIDEMIOLOGY

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OVERNIGHT TRAVEL AND THE RISK OF MALARIA: PROSPECTIVE COHORT STUDIES AT 3 SITES IN UGANDA OF VARYING MALARIA TRANSMISSION INTENSITY

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1635

LONGITUDINAL SURVEY OF MALARIA BURDEN TO ASSESS THE EFFECTS OF MALARIA CONTROL INTERVENTIONS IN A LOW TRANSMISSION SETTING IN SOUTHERN ZAMBIA

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PREVENTION OF TRANSFUSIONAL MALARIA IN THE STATE OF SAO PAULO BRAZIL

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1637

LESSONS FROM TWO DECADES OF MALARIA SURVEILLANCE IN RHODE ISLAND

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A MALARIA INDICATOR SURVEY IN A MALARIA ELIMINATION AREA OF PHU YEN PROVINCE, COASTAL VIETNAM

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HOST AGE AND *PLASMODIUM FALCIPARUM* MULTICLONALITY ARE ASSOCIATED WITH GAMETOCYTE PREVALENCE: A 1-YEAR LONGITUDINAL COHORT STUDY

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SCALING IRRIGATION AND MALARIA RISK IN MALAWI

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CONFIRMATION OF MALARIA DIAGNOSIS IN AFRICAN COUNTRIES WITH THE HIGHEST BURDEN

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FIRST TO BED, LAST TO BE BITTEN

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OPTIMIZING APPROACHES TO GENERATE WHOLE-GENOME SEQUENCE FROM NON-LEUKOCYTE DEPLETED *PLASMODIUM FALCIPARUM* CLINICAL SAMPLES

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NEW *PLASMODIUM FALCIPARUM* GENOME ASSEMBLIES FROM DIVERSE ENDEMIC REGIONS ENABLES THE COMPREHENSIVE GENOMIC AND GENETIC CHARACTERIZATION OF CLINICAL ISOLATES

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TARGETED *DE NOVO* ASSEMBLY OF *VAR2CSA* FROM CLINICAL SAMPLES USING SHORT READ WHOLE GENOME SEQUENCE DATA

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WHOLE GENOME SEQUENCE CAPTURE TO GENERATE HIGH QUALITY GENOMIC DATA FOR *PLASMODIUM VIVAX* FROM CLINICAL ISOLATES

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IMPACT OF THE G6PD DEFICIENCY ON THE PREVALENCE OF MALARIA INFECTION IN SICKLE CELL PATIENTS UNDER 15 YEARS OLD LIVING IN BURKINA FASO

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DIFFERENCE IN EXPRESSION AND POLYMORPHISM OF GENE ENCODING FOR THE RECEPTOR FOR ADVANCED GLYCATION ENDPRODUCTS (RAGE) IN FULANI AND DOGON IN MALI

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(ACMCIP Abstract)

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CHARACTERIZING *PLASMODIUM FALCIPARUM* GAMETOCYTE GENE EXPRESSION IN A COHORT OF ASYMPTOMATICALLY-INFECTED ADULTS IN WESTERN KENYA

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DEVELOPMENT OF TOOLS TO VALIDATE *P. FALCIPARUM* GENOME ASSEMBLIES GENERATED WITH PACBIO DATA

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GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* IN ASYMPTOMATIC AND SYMPTOMATIC CHILDREN IN AN ENDEMIC MALARIA AREA IN BURKINA FASO

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GENETIC VARIATION IN INTERLEUKIN (IL)-3 AND IL-7 ARE ASSOCIATED WITH ALTERED ERYTHROPOIETIC RESPONSES IN CHILDREN WITH MALARIAL ANEMIA IN SIAYA, KENYA

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TRANSCRIPTIONAL PROFILING AND GENE CO-EXPRESSION NETWORK ANALYSIS IN MALARIA PARASITE IMPROVES UNDERSTANDING OF K13 MECHANISM IN ARTEMISININ RESISTANCE

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1657**VARIATION IN THE CD40 PROMOTER IS ASSOCIATED WITH SUSCEPTIBILITY TO P. FALCIPARUM-INDUCED SEVERE MALARIA ANEMIA IN KENYAN CHILDREN**

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1658**SYSTEMS GENETIC APPROACHES TO STUDY THE TEMPORAL DYNAMICS OF HOST AND PARASITE TRANSCRIPTOMES IN MALARIAL CHILDREN IN BURKINA FASO**

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1659**GENE CO-EXPRESSION NETWORK ANALYSIS OF MALARIA PARASITE TRANSCRIPTION REFINES POTENTIAL GENE INTERACTION UNDERLYING ARTEMISININ RESISTANCE**

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1660**LEUKOCYTE-ASSOCIATED IMMUNOGLOBULIN LIKE RECEPTORS 1 (LAIR1) AND 2 (LAIR2) EXPRESSION AND POLYMORPHIC VARIATION IN CHILDREN WITH SEVERE MALARIAL ANEMIA FROM WESTERN KENYA**

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1661**ASSESSING COMPLEXITY OF PLASMODIUM FALCIPARUM INFECTION IN TWO ECOLOGICAL ZONES IN GHANA USING MOLECULAR INVERSION PROBES AND NEXT GENERATION SEQUENCING**

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(ACMCIP Abstract)

1662**CAS-9 BASED SEQUENCING ENRICHMENT FOR MALARIA GENOTYPING**

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1663**ACCURATE ASSEMBLY OF REGIONS OF COMPLEX DIVERSITY IN P. FALCIPARUM FROM SHOTGUN GENOME SEQUENCING AND ASSESSMENT OF STRAIN SPECIFIC IMMUNITY--TOWARDS OPTIMAL FORMULATION OF POLYVALENT VACCINES**

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Malaria - Immunology

1664**IDENTIFICATION OF PFEMP1 EPITOPES ASSOCIATED WITH SEVERE MALARIA USING A DIVERSITY-COVERING ULTRADENSE PEPTIDE MICROARRAY**

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(ACMCIP Abstract)

1665**PHAGOCYTTIC EFFICIENCY OF BEADS COATED WITH VARIOUS MALARIAL PFEMP1 DOMAINS BY MONOCYTES/MACROPHAGES DEPENDS ON THE DOMAIN IDENTITY AND/OR BINDING AVIDITY TO MONOCYTE SURFACE RECEPTORS**

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(ACMCIP Abstract)

1666**MOTHER TO FETAL TRANSFER OF NATURALLY OCCURRING PLASMODIUM FALCIPARUM ANTIBODIES**

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1667**REDUCED HSP70 AND GLUTAMINE IN PEDIATRIC SEVERE MALARIA ANEMIA: ROLE OF HEMOZOIN IN SUPPRESSING HSP70 AND NF- κ B ACTIVATION**

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CD4 T-CELL EXPRESSION OF IFN- γ AND IL-17 IN PEDIATRIC MALARIAL ANEMIA

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AUTOANTIBODIES IN MALARIA AND SYSTEMIC LUPUS ERYTHEMATOSUS

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(ACMCIP Abstract)

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T FOLLICULAR HELPER CELL SUBSETS AND MEMORY B CELL FUNCTION IN PAPUA NEW GUINEAN CHILDREN WITH SYMPTOMATIC MALARIA AND FEBRILE NON-MALARIA ILLNESS

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QUEST FOR IMMUNE CORRELATES OF PROTECTION USING A STREAMLINED ANALYSIS APPROACH

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(ACMCIP Abstract)

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MULTI-OMIC ANALYSIS OF SEVERITY OF INFECTION IN MACACA MULATTA INFECTED WITH PLASMODIUM CYNOMOLGI

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(ACMCIP Abstract)

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EFFECT OF MALARIA ON CXCL10 AND ANGIPOYETIN-2 IN PATIENTS FROM A COLOMBIAN ENDEMIC AREA

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THE MOST EFFECTIVE FUNCTIONAL RESPONSES AGAINST P. FALCIPARUM MEROZOITE INVASION LIGANDS ARE MEDIATED BY IGG3 SUBCLASS ANTIBODIES

Vashti Irani¹, Peck Szee Tan², Andrew J. Guy¹, Dean W. Andrew¹, Gaoqian Feng¹,

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(ACMCIP Abstract)

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MALARIA IN PREGNANCY: IMPLICATIONS OF MICROSCOPIC AND SUB-MICROSCOPIC INFECTION ON CORD BLOOD CYTOKINE RESPONSES

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(ACMCIP Abstract)

Malaria - Modeling

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DEFORESTATION AND LAND COVER CHANGES: DRIVERS OF DISAPPEARING MALARIA IN NORTHERN LAO PDR?

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1677

HOW INCREASING ACCESS TO CASE MANAGEMENT COULD BE SUFFICIENT TO ACHIEVE AND MAINTAIN MALARIA ELIMINATION

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MODELLING THE DYNAMICS OF PLASMODIUM FALCIPARUM HISTIDINE-RICH PROTEIN 2 IN HUMAN BLOOD STAGE CHALLENGE STUDIES

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NOVEL MODELING APPROACHES TO IMPROVE SPATIAL PREDICTIONS OF MALARIA PREVALENCE

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ASSESSING THE IMPACT OF IMPERFECT ADHERENCE TO ARTEMETHER-LUMEFANTRINE ON MALARIA TREATMENT OUTCOMES USING WITHIN-HOST MODELLING

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MODELING THE EFFECTS OF TRANSMISSION AND HOST POPULATION STRUCTURE ON MALARIA POPULATION GENETICS

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TO SCREEN OR NOT TO SCREEN: AN INTERACTIVE TOOL THAT INTEGRATES COSTS AND SPATIAL HETEROGENEITY TO DETERMINE WHEN MASS-SCREEN-AND-TREAT IS AN EFFECTIVE MALARIA CONTROL STRATEGY

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MODELING THE GLOBAL BURDEN OF PREGNANCY-ASSOCIATED MALARIA DEATHS

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A NOVEL HUMANIZED PSEUDO-LIVER MOUSE MODEL FOR DISCOVERY OF ANTIMALARIAL DRUGS

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IMPACT OF HUMAN MIGRATION PATTERNS ON MALARIA ELIMINATION FEASIBILITY IN THE GREATER MEKONG SUBREGION

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MAPPING MALARIA METRICS USING SURVEILLANCE DATA ACROSS HETEROGENEOUS LANDSCAPES

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PHARMACOKINETIC AND PHARMACODYNAMIC MODELING FOR THE PREDICTION OF THE MOSQUITOCIDAL EFFECT DURATION OF HIGH-DOSE IVERMECTIN (THE IVERMAL PK/PD MODEL)

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Malaria - Other

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RESULTS FROM A FORMATIVE EVALUATION OF THE MALARIA IN PREGNANCY CASE MANAGEMENT JOB AID IN NIGERIA

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CAREGIVER RESPONSES TO CHILDREN WITH UNCOMPLICATED AND SEVERE MALARIA: CHOICES AND DELAYED CARE SEEKING

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DEALING WITH G6PD DEFICIENCY ON THE WAY TO MALARIA ELIMINATION IN MYANMAR

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AWARENESS AND USE OF MALARIA CONTROL STRATEGIES IN KANO AND ZAMFARA STATES, NIGERIA - 2016

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FACTORS LIMITING THE EFFECTIVENESS OF STANDARDIZED MALARIA CONTROL STRATEGIES IN FORESTED HIGHLANDS OF VIETNAM: A QUALITATIVE STUDY

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MALARIA CASE MANAGEMENT AND PREVENTIVE PRACTICES IN KANO AND ZAMFARA STATES, NIGERIA: HEALTHCARE WORKERS PERSPECTIVE, 2016

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EVOLVING GOVERNANCE OPTIONS TO ENHANCE EQUITABLE DATA SHARING

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SCALING UP SEASONAL MALARIA CHEMOPREVENTION IN MALI: IMPLEMENTATION CHALLENGES AND LESSONS LEARNED

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RESULTS OF AN EVALUATION OF THE TOOLKIT TO IMPROVE EARLY AND SUSTAINED INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY (IPTP) UPTAKE IN MOZAMBIQUE AND MADAGASCAR

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MONITORING SEASONAL MALARIA CHEMOPREVENTION CAMPAIGNS: LESSONS LEARNED FROM COVERAGE SURVEYS IN 7 COUNTRIES

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IMPROVING INTERMITTENT PREVENTIVE TREATMENT FOR PREGNANT WOMEN (IPTP) COVERAGE IN 5 DISTRICTS IN CHAD (DOBA, BEBEDJIA, BODO AND BEBOTO) AND KRIBI DISTRICT IN CAMEROON

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IMPROVED METHOD FOR PURIFICATION OF *PLASMODIUM FALCIPARUM* LATE STAGE TROPHOZOITES AND SCHIZONTS FROM *IN VITRO* CULTURES USING MAGNETIC SELECTION

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IMPROVING MALARIA CASE MANAGEMENT AND SURVEILLANCE THROUGH A COMMUNITY-BASED PILOT IN PANAMA

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ANTIMALARIAL PRESCRIPTION PRACTICES AT 21 PUBLIC OUTPATIENT FACILITIES LOCATED IN REGIONS OF VARYING MALARIA ENDEMICITY IN UGANDA

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CONTRIBUTION OF THE IMPROVING MALARIA CARE (IMC) PROJECT TO IMPROVING MALARIA CASE MANAGEMENT IN BURKINA FASO: STRENGTHENING THE CAPACITY OF HEALTH CARE PROVIDERS

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PLASMODIUM RIBOSOMES DO NOT STALL ON POLYA TRACKS

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MAPPING THE POLICY AND PROGRAMMATIC DECISION-MAKING LANDSCAPE FOR MALARIA CONTROL INTERVENTIONS: A CASE STUDY FOR MALI AND ZAMBIA

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CONTRIBUTION OF THE STANDARDS-BASED MANAGEMENT AND RECOGNITION (SBM-R) APPROACH TO FIGHTING MALARIA IN BURKINA FASO

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THE KENYAN MALARIA MARKET AFTER AMFM

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"IT'S BEEN USED FOR A LONG TIME": EXPLORING PRIVATE PROVIDERS' PREFERENCE FOR CONTINUED USE OF ORAL ARTEMISININ-BASED MONOTHERAPY IN MYANMAR

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RESULTS FROM A BASELINE SURVEY TO EVALUATE DIFFERENT INDOOR RESIDUAL SPRAY IMPLEMENTATION STRATEGIES FOR MALARIA CONTROL

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USING SMS TO REPORT STOCK-OUTS OF ANTI-MALARIA MEDICINE AND BED NETS IN GUINEA

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SEASONAL MALARIA CHEMOPREVENTION SCALING UP AND ITS IMPACT ASSESSMENT IN MALI

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SCALING-UP OF SEASONAL MALARIA CHEMOPREVENTION IN SOKOTO AND ZAMFARA STATES, NIGERIA: MONITORING DELIVERY AND IMPACT

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A FATAL CASE OF IMPORTED MALARIA IN MONGOLIA

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AUTOMATION TRIPLES THROUGHPUT OF PFSPZ MALARIA VACCINE EXTRACTION FROM MOSQUITOES WITH 20-FOLD REDUCTION IN TRAINING TIME

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Malaria - Vaccines

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USING ANTIBODIES TO SIMULATE THE CO-ADMINISTRATION OF TRANSMISSION-BLOCKING AND PRE-ERYTHROCYTIC VACCINES ACCELERATES MALARIA ELIMINATION IN MICE

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CONTROLLED P. VIVAX BLOOD STAGE REPEATED INFECTION INDUCES PROTECTION AGAINST HETEROLOGOUS CHALLENGE IN THE NON-HUMAN PRIMATE MODEL

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HUMAN TO MOSQUITO TRANSMISSION OF SUB-MICROSCOPIC P. FALCIPARUM GAMETOCYTE DENSITIES DURING CONTROLLED HUMAN MALARIA INFECTION AND QUANTIFICATION OF MALE AND FEMALE GAMETOCYTES

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IMMUNOGENICITY OF THE RTS,S/AS01E VACCINE IN AFRICAN CHILDREN: EFFECT OF AGE, MALARIA TRANSMISSION INTENSITY AND ASSOCIATION WITH PROTECTIVE EFFICACY

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IMMUNE CORRELATES OF PROTECTION AFTER VACCINATION WITH RTS,S-AS01E: ROLE OF ANTI-CSP ANTIBODY AVIDITY

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A CONTROLLED HUMAN MALARIA INFECTION MODEL COMPARING LOW-DOSE PIPERAQUINE AND SULFADOXINE-PYRIMETHAMINE TO INDUCE INFECTIOUS MALE AND FEMALE *P. FALCIPARUM* GAMETOCYTES

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ANTIBODY CORRELATES OF NATURALLY ACQUIRED IMMUNITY AGAINST MALARIA IN CHILDREN PARTICIPATING IN THE RTS,S/AS01E PHASE 3 AFRICAN MULTI-CENTER TRIAL

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PARASITE MULTIPLICATION RATES DURING CONTROLLED HUMAN MALARIA INFECTIONS IN TANZANIAN ADULTS

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BUILDING MALARIA VACCINES USING IN SILICO ANALYSIS AND REVERSE ENGINEERING TECHNIQUES TO TARGET CRITICAL T AND B CELL EPITOPES

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DIVERSITY-REFLECTING PEPTIDE MICROARRAY AND MUTATION SCAN ANALYSES DEMONSTRATE HIGH STRAIN SPECIFICITY OF VACCINE-INDUCED ANTIBODIES TO A CRITICAL RESIDUE IN THE *PLASMODIUM FALCIPARUM* AMA1 CLUSTER 1 LOOP

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IMPACT OF PROTEIN TARGETING ON IMMUNOGENICITY OF PFS25 ENCODED BY DNA VACCINE PLASMIDS

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IMMUNIZATION WITH MULTIPLE ALLELES OF *PLASMODIUM FALCIPARUM* FULL LENGTH VAR2CSA DNA CONSTRUCTS TO GENERATE A PLACENTAL MALARIA VACCINE SHOWING BROAD HETEROLOGOUS PROTECTION

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BLOOD TRANSCRIPTOME RESPONSES TO *P. FALCIPARUM* INFECTION AND IMMUNIZATION

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A NOVEL BLOOD-STAGE VACCINE CANDIDATE MEDIATES PROTECTION AGAINST *FALCIPARUM* MALARIA IN MICE AND CHILDREN

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CORRELATION BETWEEN *PLASMODIUM FALCIPARUM* NF54 STRAIN OOCYSTS AND SPOROZOITES COUNTS IN *ANOPHELES STEPHENSI* MOSQUITOES

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IMPROVED DISPLAY OF THE MALARIA TRANSMISSION BLOCKING PFS25 ANTIGEN ON A SECOND-GENERATION PLANT-PRODUCED VLP

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Malaria/Mosquitoes - Field Prevention

1730

EFFECTIVENESS OF COMMUNITY-BASED LARVICIDING PROGRAM ON MALARIA VECTOR ABUNDANCE ON BIKO ISLAND, EQUATORIAL GUINEA

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FACTORS ASSOCIATED WITH THE UPTAKE OF AT LEAST TWO DOSES OF SULFADOXINE/PYRIMETHAMINE FOR THE PREVENTION OF MALARIA IN PREGNANT WOMEN, BENIN, 2015

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TRACKING LONG LASTING INSECTICIDAL NET (LLIN) PHYSICAL INTEGRITY AND BIOEFFICACY 2 YEARS AFTER A MASS CAMPAIGN IN BENIN

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CURRENT PRACTICES IN URBAN INSECTICIDE-TREATED NET DISTRIBUTION ACROSS SUB-SAHARAN AFRICA

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NET MIGRATION OR NON-USE? BED NET OWNERSHIP FOLLOWING MASS DISTRIBUTION CAMPAIGNS ON BIKO ISLAND, EQUATORIAL GUINEA

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SUSTAINING HIGH NET OWNERSHIP THROUGH CONTINUOUS COMMUNITY DISTRIBUTION

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USING THE ANTENATAL CARE QUALITY IMPROVEMENT TOOL AND TARGETED TRAINING TO STRENGTHEN ANC SERVICES INCLUDING MIP IN KAGERA AND MARA REGIONS, TANZANIA

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NET USE AND PREFERENCE AMONG INDIVIDUALS SLEEPING IN FORESTS OR FARMS IN MALARIA MULTI-DRUG RESISTANT AREAS

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OBSERVATIONAL EVIDENCE OF A COMPLIMENTARY EFFECT OF COMBINING NEXT GENERATION INDOOR RESIDUAL SPRAYING AND SEASONAL MALARIA CHEMOPREVENTION IN THE SÉGOU REGION OF MALI, 2014

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MALARIA VECTOR DENSITY AND PROXIMITY OF HUMAN RESIDENCE TO AN IRRIGATED AGRO-ECOSYSTEM IN MALAWI

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MONITORING THE PROTECTIVE EFFICACY OF SEASONAL MALARIA CHEMOPREVENTION USING CASE-CONTROL STUDIES: METHODOLOGY AND RESULTS FROM 5 COUNTRIES

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SEASONAL BIONOMICS OF MALARIA VECTORS IN KILWA AND KASHOBWE, HAUT-KATANGA PROVINCE, DEMOCRATIC REPUBLIC OF CONGO

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OUTDOOR MALARIA TRANSMISSION IN DANGASSA, A COMMUNITY WHERE MALARIA CONTROL IS FAILING DESPITE THE USE OF LONG-LASTING INSECTICIDAL NETS (LLINS)

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ANALYSES OF THE IMPACT OF SHIFTING IRS OPERATIONS ON MALARIA TRANSMISSION RATES IN THE NORTHERN, UPPER EAST AND UPPER WEST REGIONS OF GHANA: 2014-2015

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COVERING HOUSE EAVE GAPS AND CEILINGS WITH INSECTICIDE TREATED NETS MAY REDUCE THE RISK OF PLASMODIUM INFECTION AMONG CHILDREN IN SIAYA SUB-COUNTY, KENYA

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HPLC-FLUORESCENCE METHOD FOR DETECTION OF IVERMECTIN IN MOSQUITO BLOOD MEALS

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Bacteriology - Enteric Infections

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A MURINE MODEL OF DIARRHEA AND GROWTH IMPAIRMENT WITH *SHIGELLA FLEXNERI* INFECTION AND THE ROLE OF ZINC DEFICIENCY

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PLASMA IGA RESPONSES AGAINST THREE *SALMONELLA TYPHI* ANTIGENS IDENTIFY PATIENTS WITH TYPHOID FEVER WITH EXCELLENT SENSITIVITY AND SPECIFICITY IN DHAKA, BANGLADESH

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PREVALENCE OF CHILDHOOD DIARRHEAL ILLNESSES IN A PERUVIAN AMAZON RIVER BASIN COMMUNITY

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MONITORING AND EVALUATION IN A MULTI-COUNTRY SURVEILLANCE SYSTEM: SEVERE TYPHOID IN AFRICA PROGRAM

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LONGITUDINAL ASSESSMENT OF ANTIBIOTIC RESISTANCE IN *E. COLI* ISOLATED FROM THE MAL-ED BIRTH COHORT STUDY IN RURAL TANZANIA

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ETIOLOGY-SPECIFIC DIARRHEA BY QPCR AND LINEAR GROWTH DEFICITS IN BANGLADESHI INFANTS

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FOAM DRY STABILIZATION OF TYORASS, THE RECOMBINANT TY21A-SHIGELLOSIS VACCINE

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SALMONELLA ENTERICA SEROVARS ISOLATED FROM STOOLS OF CHILDREN ENROLLED IN THE GLOBAL ENTERIC MULTICENTER STUDY

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PREVALENCE AND ANTIBIOTIC RESISTANCE OF ENTEROPATHOGENS BACTERIAL ISOLATED FROM FECAL SAMPLES AT A HOSPITAL OF THE PERUVIAN AMAZON

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COST-EFFECTIVENESS OF INTERVENTIONS TO PREVENT DIARRHEA: INTRODUCING A MICROSIMULATION MODEL FOR CHILDREN UNDER FIVE IN EVERY COUNTRY FROM 2005 TO 2015

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GENOMIC AND PHENOTYPIC CHARACTERIZATION OF TYPHOID VACCINE STRAIN TY21A REVEALS INSIGHTS IMPACTING FUTURE VACCINE DEVELOPMENT AND OPTIMIZATION

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ETIOLOGY AND SEVERITY OF DIARRHEAL DISEASE IN INFANTS IN BRAZIL SEMIARID REGION: A CROSS-SECTIONAL CASE-CONTROL STUDY

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HUMAN CHALLENGE MODEL REFINEMENT FOR B7A, AN ENTEROTOXIGENIC ESCHERICHIA COLI (ETEC) CHALLENGE STRAIN THAT EXPRESSES CS6

Kawsar R. Talaat¹, Christopher Duplessis², A. Louis Bourgeois¹, Chad Porter², Milton Maciel, Jr.², Ramiro Gutierrez², Brittany Adjoodani¹, Barbara DeNearing¹, Brittany Feijoo¹, Subhra Chakraborty¹, Jessica Brubaker¹, Stefanie Trop², Kayla Jaep¹, Mark Riddle², Sabrina Joseph², Michael G. Prouty²
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CORRELATING THE PREVALENCE OF VIBRIO CHOLERAE AND SHIGELLA SPP. IN HIV-SERO POSITIVE PEDIATRIC PATIENTS WITH THEIR CD4 T-CELLS COUNT ATTENDING THE ART REFERENCE LABORATORY IN CENTRAL HOSPITAL OF NEPAL: FIRST CASE STUDY FROM THE COUNTRY

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Bacteriology - Trachoma

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VILLAGE-LEVEL MEDICATION LOGBOOK AUDIT FOLLOWING A TRACHOMA MASS DRUG ADMINISTRATION CAMPAIGN IN AMHARA REGION, ETHIOPIA IN 2016

Alex M. Jordan¹, Tigist Astale², Eshetu Sata², Mulat Zerihun², Andrew Nute¹, Aisha E.P. Stewart¹, Demelash Gessesse², Gedefaw Ayenew², Berhanu Melak², Melsew Chanyalew³, Zerihun Tadesse², E. Kelly Callahan¹, Scott D. Nash¹
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ONE ROUND OF TARGETED SUB-DISTRICT TREATMENT IN THE DISTRICT OF OUSSOUBIDIAGNA, MALI ACHIEVED THE CRITERIA OF STOPPING TRACHOMA MASS DRUG ADMINISTRATION

Lamine Traoré¹, Modibo Keita², Benoit Dembélé², Mamadou Dembélé¹, Boubacar Guindo², Dramane Traoré², Oumar Bouré¹, Famolo Coulibaly¹, Daouda Coulibaly¹, Seydou Goita², Abdoul Karim Sidibé¹, Steven David Reid³, Amy R. Veinoglou³, Marilyn Knieriemen², Yaobi Zhang⁴
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Angelia Sanders¹, Zeinab Abdalla², Balgesa Elshafie³, Mazin Elsanosi², Nabil Mikhail², E. Kelly Callahan¹, Scott D. Nash¹
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Kieran S. O'Brien¹, Jeanne Moncada¹, Julius Schachter¹, Paul M. Emerson², Scott D. Nash², Zerihun Tadesse³, Zhaoxia Zhou¹, Charles E. McCulloch¹, Thomas M. Lietman¹, Jeremy D. Keenan¹
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PROVIDING TRACHOMATOUS TRICHIASIS SURGICAL SERVICES IN RURAL TANZANIA

Alistidia S. Wenfurebe¹, Jeremiah Ngondi², Joseph Sambali³, Edward Kirumbi⁴, Upendo Mwingira⁴, Jennifer Harding³, Riziki Ponsiano⁵
¹National Institute of Medical Research, Dar es salaam, United Republic of Tanzania, ²RTI International, Dar es salaam, United Republic of Tanzania, ³Helen Keller International, Dar es salaam, United Republic of Tanzania, ⁴Neglected Tropical Diseases Control Program, Dar es salaam, United Republic of Tanzania, ⁵Sightsavers, Dar es salaam, United Republic of Tanzania

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Emilienne Epee¹, Assumpta Bella¹, Julie Akame², Yannick Nkoumou², Emily Gower³, Henri C. Mounqui²
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TRACHOMA ENDGAME IN TANZANIA: TEMPORAL-SPATIAL ANALYSIS OF CLUSTERING OF TRACHOMATOUS INFLAMMATION FOLLICULAR (TF) IN DISTRICTS WITH PERSISTENT TF FOLLOWING MASS DRUG ADMINISTRATION WITH AZITHROMYCIN

George Kabona¹, Upendo Mwingira², Edward Kirumbi², Andreas Nshala², Boniphace Idindili³, Delali Bonuedi⁴, Aryc Mosher⁵, Lisa Rotondo⁴, Jeremiah Ngondi⁶
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THE CHANGING FACE OF TRACHOMA CONTROL IN TANZANIA: RESULTS FROM THE 2016 TRACHOMA IMPACT SURVEYS

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IMPROVING TRACHOMA MASS DRUG ADMINISTRATION UPTAKE AMONG NOMADIC AND PASTORALIST COMMUNITIES OF RURAL TANZANIA

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FOLLOW-UP OF TRICHIASIS PATIENTS OPERATED DURING AN EVALUATION OF THE SURGICAL SIMULATION DEVICE HEAD START

Chano Hamiden¹, Mahamane Abdou¹, Hadiara Adamou², Stephanie L. Palmer³, Kadri Boubacar¹, Tchouloum Toudja², Josette Vignon², Thierno Faye², Abdou Amza¹

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FACTORS ASSOCIATED WITH MORTALITY AMONG PATIENTS WHO ABSCONDED FROM JINJA CHILDREN'S HOSPITAL

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Susan Dierickx¹, Sarah O'Neill², Charlotte Gryseels², Edna A. Immaculate³, Melanie Bannister-Tyrell², Joseph Okebe³, Julia Mwesigwa³, Fatou Jaiteh³, René Gerrets⁴, Raffaella Ravinetto², Umberto D'Alessandro³, Koen Peeters Grietens²

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Djibrilla Issiaka¹, Jean Gaudart², Amadou Barry¹, Tianguoua Traore¹, Boubacar Diarra³, Diakalia Kone⁴, Issaka Sagara¹, Patrick Duffy⁵, Michal Fried⁵, Alassane Dicko¹

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DEVELOPMENT OF AN ANTISENSE RNA (ASRNA) STRATEGY FOR GENE SILENCING IN *LEPTOSPIRA* SPP.

Luis Guilherme Fernandes¹, Ana Lúcia Nascimento¹, Mathieu Picardeau²

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David M. Vu¹, Elyse N. Grossi-Soyster¹, Amy R. Krystosik¹, Cornelius Kiptoo², Charles H. King³, John Vulule², Dunstan Mukoko⁴, Bryson A. Ndenga², Francis M. Mutuku⁵, A. Desiree LaBeaud¹

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Jessie Leye, Elizabeth Talbot

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Hannah Worrall¹, Rebecca S. Fischer¹, Melissa N. Garcia¹, Linda L. Garcia¹,

Lauren Middleton², Sreedhar Mandayam¹, Kristy O. Murray¹

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IMS, CRP AND PROCALCITONIN TO DIFFERENTIATE CAUSES OF ACUTE INFECTIONS IN INDONESIA

Andre van der Ven¹, Susantina Prodjosoejo², Bacti Alisjahbana², Quirijn de Mast¹

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Jean T. Coulibaly¹, Jason R. Andrews², Nathan C. Lo², Eliézer K. N'Goran¹, Jürg Utzinger³, Jennifer Keiser³, Isaac I. Bogoch⁴

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Daniel T. Leung¹, Nadine Sbaih¹, Brian Buss¹, Russell J. Benefield¹, Dheeraj Goyal¹, Sowmya R. Rao², Edward T. Ryan³, Regina C. LaRocque³

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Gloria Adjapong¹, Mark A. Appenteng¹, Sylvester Kaminta¹, Jerry Aseidu-Larbi², Augustine A. Ocloo², Olga Quarsie², Doris Kumadoh³, Ashley Garrill⁴, Felix C. Mills-Robertson⁵

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1783**INCIDENCE AND RISK FACTORS FOR PERIPARTUM FEVER IN PUERTO RICO, OCTOBER 2016 - MARCH 2017**

Nicole M. Perez-Rodriguez, Veronica M. Frasier-Quintana, Getzabeth E. Bosques-Gomez, Angel L. Perez-Caro, Xiomara Torres-Figueroa, Luzeida Vargas-Lassalle, Luisa I. Alvarado-Domenech
Ponce Health Sciences University, Ponce, Puerto Rico

1784**ENDOTOXIN LEVELS AT THE MATERNAL-FETAL INTERFACE AND THE ASSOCIATION WITH INTRAUTERINE GROWTH**

Emily A. McDonald¹, Hannah W. Wu¹, Remigio M. Olveda², Luz P. Acosta², Veronica Tallo², Palmera I. Baltazar², Jonathan D. Kurtis¹, Jennifer F. Friedman¹
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1785**GUILAIN-BARRÉ SYNDROME IN PATIENTS WITH ZIKA: CLINICAL SERIES WITH LABORATORY CONFIRMATION IN THE STATE OF YUCATAN**

Claudio H. Pech-Cervantes¹, Emily G. Lara-Romero¹, Emy G. Haas-Solis¹, Juan-Pablo Guillermo-Durán¹, Salvador Gomez-Carro², Nina Mendez-Dominguez¹
¹Universidad Marista de Merida, Merida, Yucatan, Mexico, ²O'Horan General Hospital, Merida, Yucatan, Mexico

1786**MALARIA TRANSMISSION AS MEASURED BY DIRECT SKIN FEEDING OVER A TWO-YEAR PERIOD IN MALI AS AN EFFICACY ENDPOINT FOR A TRANSMISSION BLOCKING VACCINE**

Daman Sylla¹, Adama Sacko¹, Jen C. Hume², Abdoulaye Keita¹, Boubacar Coulibaly¹, Daouda Ouologuem¹, Lakamy Sylla¹, Chata Doumbia¹, Issa Traore¹, Sidiki Kamissoko¹, Youssouf Siniba¹, Mahamadoun H. Assadou¹, Issaka Sagara¹, Sara A. Healy², Ogobara Doumbo¹, Sekou F. Traore¹, Patrick E. Duffy², Mamadou B. Coulibaly¹
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1787**CYTOKINES PROFILES IN PATIENTS WITH HANSENS'S DISEASE AND PARASITIC CO-INFECTIONS IN HYPERENDEMIC AREA OF BRASIL: IMPLICATIONS FOR TRANSMISSION**

Lorena B. Oliveira¹, Rosemary Ker e Lima², Laura de Mondesert³, Rodrigo Paiva⁴, Jessica Stephens⁵, Jose Ferreira⁶, Maria Aparecida Grossi⁶, Jessica Fairley⁷, Lucia Fraga⁷
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1788**ALTERED FETAL IMMUNE RESPONSES BY PRENATAL EXPOSURE TO MATERNAL CO-INFECTIONS**

Ruth K. Nyakundi¹, Ronald Ottichilo², Francis Mutuku², Thomas Kariuki³, Desiree LaBeaud⁴, Charles H. King⁵, Indu Malhotra⁵
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1789**DOUBLE JEOPARDY: RECURRENT CASE OF DENGUE FEVER**

Benjamin Chou, Silvio Goris, Javeria Shakil
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1790**TRAVEL-RELATED BEHAVIORS OF ADOLESCENTS ON SHORT-TERM INTERNATIONAL SERVICE MISSIONS**

Hemantha Walaliyadda¹, Benjamin Tasevac¹, Michael Graves¹, Peter Hale¹, In K. Park¹, Nora Sooklaris¹, L. Scott Benson¹, Justin Powell², Jakrapun Pupaibool¹, Daniel T. Leung¹
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1791**IRON, INFLAMMATION AND ERYTHROPOIESIS: ANALYSIS OF FACTORS CONTRIBUTING TO SEVERE ANEMIA IN UGANDAN CHILDREN WITH SICKLE CELL ANEMIA**

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¹Indiana University School of Medicine, Indianapolis, IN, United States, ²Makerere University, Kampala, Uganda, ³Cincinnati Childrens Hospital Medical Center, Cincinnati, OH, United States, ⁴The University of Minnesota, Minneapolis, MN, United States

1792**THE DEMOGRAPHY, CLINICAL CHARACTERISTICS AND DIAGNOSES OF ACUTE FEBRILE ILLNESS REQUIRING HOSPITALIZATION IN INDONESIA**

Herman Kosasih¹, M. H. Gasem², Emiliana Tjitra³, Bacht Alisjahbana⁴, Dewi Lokida⁵, Mansyur Arief⁶, Sophia Siddiqui⁷, Muhammad Karyana³
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1793**WAIT, IS THIS AN ID BOARD QUESTION? CHRONIC HEPATITIS IN A BROADLY EXPOSED LIVER TRANSPLANT PATIENT**

Megan McKenna, Vagish Hemmige
Baylor College of Medicine, Houston, TX, United States

1794**HOT OR NOT? MANAGEMENT OF UNCLASSIFIED FEVER IN CHILDREN IN SUB-SAHARAN AFRICA**

Karin Källander¹, Tobias Alfvén², Ayalkibet Abebe³, Abreham Hailemariam³, Dawit Getachew³, Max Petzold⁴, Laura C. Steinhardt⁵, Julie R. Gutman⁵
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1795**IMPACT OF FIVE YEARS OF CDTI ON ENTOMOLOGICAL TRANSMISSION INDICATORS OF ONCHOCERCIASIS BY SIMULIUM DAMNOSUM S.L. IN THE CASCADES REGION OF BURKINA FASO**

Lassane Koala¹, Achille Nikiema¹, Rock K. Dabire¹, Soungalo Traore¹, Adrien M. Belem², François Drabo³
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1796**ONCHOCERCIASIS IN CAMEROON: A SYSTEMATIC REVIEW OF HISTORY AND IMPACT OF CONTROL INTERVENTIONS****André Domche**, Hugues Clotaire Nana Djeunga, Guy Roger Kamga, Joseph Kamgno*Centre for Research on Filariasis and other Tropical Diseases (CRFiMT), Yaoundé, Cameroon*

1797**LYMPHATIC FILARIASIS IN MAINLAND SOUTHEAST ASIA: A SYSTEMATIC REVIEW AND META-ANALYSIS OF PREVALENCE AND DISEASE BURDEN****Benjamin F. Dickson**, Patricia M. Graves, William J. McBride*James Cook University, Cairns, Australia*

1798**LYMPHATIC FILARIASIS SERO PREVALENCE IN MOMBASA COUNTY****Stephen Mwatha***Neglected Tropical Medicine, Nairobi, Kenya*

1799**EFFECT OF A SINGLE DOSE OF IVERMECTIN ON LOA LOA MICROFILAREMIA 18 MONTHS AFTER TREATMENT****Sebastien D. Pion¹**, Joseph Kamgno², Cedric B. Chesnais¹, Hugues Nana Djeunga², Hugo Deleglise¹, Andre Domche², Raceline Gounoue Kamkumo², Guy Roger Njitchouang², Wilma A. Stolk³, Daniel A. Fletcher⁴, Charles D. Mackenzie⁵, Amy D. Klion⁶, Thomas B. Nutman⁶, Michel Boussinesq¹¹*Institut de recherche pour le Développement, Montpellier, France*, ²*Centre for Research on Filariasis and Other Tropical Diseases, Yaounde, Cameroon*,³*Department of Public Health, Erasmus MC, University Medical Center, Rotterdam, Netherlands*, ⁴*Department of Bioengineering, University of California, Berkeley, CA, United States*, ⁵*Department of Pathobiology and Diagnostic Investigation, Michigan State University, East Lansing, MI, United States*, ⁶*Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States*

1800**MODELLING ALTERNATIVE STRATEGIES FOR ONCHOCERCIASIS ELIMINATION: THE CASE FOR MOXIDECTIN****Philip Milton¹**, Martin Walker², Annette C. Kuesel³, Nicholas O. Opoku⁴, Didier Bakajika⁵, Eric Kanza⁶, Hayford Howard⁷, Craig R. Rayner⁸, Danielle Smith⁹, Mark Sullivan⁹, Maria-Gloria Basáñez¹¹*Imperial College London and London Centre for Neglected Tropical Disease Research (LCNTDR), London, United Kingdom*, ²*Royal Veterinary College and London Centre for Neglected Tropical Disease Research (LCNTDR), Hatfield, United Kingdom*, ³*UNICEF/UNDP/World Bank/World Health Organization Special Programme on Research and Training in Tropical Diseases (TDR), Geneva, Switzerland*, ⁴*University of Health and Allied Sciences Research Centre (UHASRC), Hohoe, Ghana*, ⁵*Centre de Recherche en Maladies Tropicales de l'Ituri, Hôpital Général de Référence de Rethy, Province Orientale, Democratic Republic of the Congo*, ⁶*Centre de Recherche Clinique de Butembo (CRCB) and Université Catholique du Graben (UCG), Province de North Kivu, Democratic Republic of the Congo*, ⁷*Liberia Institute for Biomedical Research, Clinical Research Centre Bolahun, Lofa County, Liberia*, ⁸*d3 Medicine LLC – a Certara Company, Parsippany, NJ, United States*, ⁹*Medicines Development for Global Health (MDGH), Southbank, Victoria, Australia*

1801**ARE WE ON THE RIGHT TRACK? STOPPING CRITERIA FOR ENDING SOIL-TRANSMITTED HELMINTHS RANDOMIZED CLINICAL TRIALS****Marleen Werkman¹**, James E. Truscott¹, James E. Wright¹, Jaspreet Toor¹, Kristjana H. Asbjornsdottir², Sam H. Farrell¹, Judd L. Walson², Roy M. Anderson¹¹*Imperial College London, London, United Kingdom*, ²*University of Washington, Seattle, WA, United States*

1802**ASSESSMENT OF TWO DENSITOMETRIC READERS TO MEASURE RESULTS OF FILARIASIS TEST STRIPS IN THE DEMOCRATIC REPUBLIC OF CONGO****Cédric B. Chesnais¹**, Sébastien D. Pion¹, Naomi-Pitchouna Awaca-Uvon², Jean-Paul Tambwe², Michel Boussinesq¹, Donald C. Cooper³, Katherine Gass⁴¹*IRD UMI 233-INSERM U1175-Montpellier University, Montpellier, France*, ²*National Onchocerciasis Control Programme, Ministry of Public Health, Kinshasa, Democratic Republic of the Congo*, ³*President, Mobile Assay LLC, Boulder, CO, United States*, ⁴*Neglected Tropical Disease Support Center, Task Force for Global Health, Decatur, GA, United States*

1803**EMPIRIC TESTING OF A MODEL TO IDENTIFY DISTRICTS ELIGIBLE FOR SAFE IVERMECTIN-BASED MASS TREATMENTS FOLLOWING INTEGRATED MAPPING FOR ONCHOCERCIASIS, LYMPHATIC FILARIASIS AND LOIASIS****Joseph Kamgno¹**, Hugues Nana-Djeunga², Jules Tchatchueng-Mbouqua², Guy-Roger Njitchouang², Divine B Agbor-Arrey², Aurel Tankeu-Tiakouang¹, André Domche², Kisito T Ogooussan³, Maria P Rebollo⁴¹*Centre for Research on Filariasis and Other Tropical Diseases and Faculty of Medicine and Biomedical Sciences University of Yaounde I, Yaounde, Cameroon*, ²*Centre for Research on Filariasis and Other Tropical Diseases, Yaounde, Cameroon*, ³*NTDs Support Center, Task Force for Global Health, Atlanta, USA, Decatur, GA, United States*, ⁴*Expanded Special Project for Elimination of NTDs, WHO-AFRO, Brazzaville, Republic of the Congo*

1804**STOPPING IVERMECTIN DISTRIBUTION IN ONCHOCERCIASIS AND LYMPHATIC FILARIASIS CO-ENDEMIC FOCI. WHAT IS THE WAY FORWARD?****Andreas Nshala¹**, Maria Chikawe², Cecilia Cecilia Uisso², Oscar Kaitaba¹, Sarah Craciunoiu³, Kathryn Crowley⁴, Delali Bonuedi⁴, Darin Evans⁵, William Kisoka⁶, Mathias Kamugisha⁶, Upendo Mwingira²¹*IMA World Health, Dar es Salaam, United Republic of Tanzania*, ²*Tanzania NTD Control Program, Dar es Salaam, United Republic of Tanzania*, ³*IMA World Health, Washington, DC, United States*, ⁴*RTI International, Washington, DC, United States*, ⁵*U.S. Agency for International Development, Washington, DC, United States*, ⁶*National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania*

1805**RESPONSES OF ONCHOCERCA VOLVULUS AFTER THE INTRODUCTION OF BIENNIAL TREATMENT WITH IVERMECTIN IN GHANA****Kwadwo K. Frempong¹**, Martin Walker², Robert A. Cheke³, Edward Jenner Tetevi⁴, Ernest Tawiah Gyan⁴, Ebenezer O. Owusu⁵, Michael D. Wilson¹, Daniel A. Boakye¹, Mark J. Taylor⁶, Nana Kwadwo Biritwum⁷, Mike Osei-Atweneboana⁴, Maria Gloria Basanez²¹*Noguchi Memorial Institute for Medical Research, Accra, Ghana*, ²*Department of Infectious Disease Epidemiology, School of Public Health, Imperial College London, London, United Kingdom*, ³*Natural Resources Institute, University of Greenwich, Medway, United Kingdom*, ⁴*Council for Scientific and Industrial Research, Water Research Institute, Accra, Ghana*, ⁵*Department of Animal Biology and Conservation Science, University of Ghana, Legon, Accra, Ghana*, ⁶*Department of Parasitology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom*, ⁷*Neglected Tropical Diseases Programme, Ghana Health Services, Accra, Ghana***(ACMCIP Abstract)**

1806**ALL FOR ONE, ONE FOR ALL: ACROSS BORDER LYMPHATIC FILARIASIS TRANSMISSION CAN COMPROMISE NATIONAL ELIMINATION PROGRAMS IN SOME SETTINGS****Joaquin M. Prada¹**, Lisa J. Reimer², Deirdre Hollingsworth¹¹*University of Warwick, Coventry, United Kingdom*, ²*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*

1807

LESSONS LEARNED FROM IMPLEMENTING LYMPHATIC FILIARIASIS TRANSMISSION ASSESSMENT SURVEYS IN THE FIRE BELT OF NORTH DEPARTMENT IN HAITI

Carl Renand Fayette¹, Franck Monestime¹, Alain Javel¹, Luula Mariano¹, Ellen Knowles², Sarah Craciunoiu², Cudjoe Bennett², Abdel Direny³, Jean-Frantz Lemoine⁴

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Helminths - Nematodes - Filariasis (Epidemiology)

1808

THE ROAD MAP TO LF ELIMINATION IN TANZANIA - THE CHALLENGING END GAME

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1809

EPIDEMIOLOGY OF FILARIASIS IN ZAIRE PROVINCE, ANGOLA

Célio C. Njinga¹, Filipa Vaz¹, Rossely C. Paulo², Pedro Van Dunem³, Miguel Brito⁴
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Helminths - Nematodes - Filariasis (Immunology)

1810

THERAPEUTIC POTENTIAL OF WITHANIA SOMNIFERA IN FILARIAL INDUCED SECONDARY LYMPHEDEMA

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(ACMCIP Abstract)

Helminths - Nematodes - Filariasis (Other)

1811

BARRIERS TO CONTROL AND ELIMINATE LYMPHATIC FILIARIASIS IN ZANZIBAR: TACKLING THE REALITY OF THE MASS DRUG ADMINISTRATION PROGRAM

Vanessa Laveglia¹, Fatma Mohd², Khalfan Mohammed², Saleh Juma², Hayley E. Mableson¹, Hannah Betts¹, **Louise A. Kelly-Hope¹**
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1812

COMPARISON OF THE *IN VITRO* SUSCEPTIBILITY TO EMODEPSIDE OF MICROFILARIAE, THIRD STAGE LARVAE AND ADULT WORMS OF RELATED FILARIAL NEMATODES

Daniel Kulke¹, Simon Townson², Dominique Bloemker³, Stefan Frohberger³, Sabine Specht³, Ivan Scandale⁴, Martin Glenschek-Sieberth⁵, Achim Harder⁶, Achim Hoerauf³, **Marc P. Hübner³**

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1813

INVESTIGATION INTO THE EFFECT OF HOST MIGRATION ON THE TRANSMISSION OF *ONCHOCERCA VOLVULUS* USING A PATCH MODEL

Karen McCulloch¹, James McCaw², Jodie McVernon³, Shannon M. Hedtke⁴, Martin Walker⁵, Philip Milton⁶, Maria-Gloria Basáñez⁶, Warwick Grant⁴
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1814

FOLLOWING 11 ROUNDS OF IVERMECTIN DISTRIBUTION, HOW CLOSE IS INTERRUPTION OF ONCHOCERCIASIS TRANSMISSION IN THE TUNDURU FOCUS IN TANZANIA?

Oscar Kaitaba¹, Andreas Nshala², Maria Chikawe¹, Cecilia Uisso¹, Boniphace Idindili², Sarah Craciunoiu³, Delali Bonuedi⁴, Kathryn Crowley⁴, Darin Evans⁵, William Kisoka⁶, Mathias Kamugisha⁶, Upendo Mwingira¹
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1815

DEMONSTRATED CAPACITY BUILDING OF LOCAL SURGEONS TO PERFORM HYDROCELECTOMY IN REMOTE HOSPITALS IN TANZANIA

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1816

MULTIPLE PATHS TOWARDS LOSS OF DRUG SENSITIVITY: WHOLE-GENOME SEQUENCING OF *ONCHOCERCA VOLVULUS* INDICATES GENES UNDER SELECTION ARE DEPENDENT ON TRANSMISSION ZONE

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(ACMCIP Abstract)

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Helminths - Nematodes - Intestinal Nematodes

1817

COMPARISON OF WET MOUNT MICROSCOPY, MINI-FLOTAC AND PCR FOR THE DIAGNOSIS OF *ASCARIS LUMBRICOIDES*

Frank P. Mockenhaupt¹, Kira Fraundorfer², Jean Claude Mugisha³, Prabhanjan P. Gai¹, Kevin C. Sifft¹, Dominik Geus¹, Felix Habarugira³, Claude Bayingana³, Jules Ndoli³, Augustin Sendegeya³, Jürgen Krücken², Jean Bosco Gahutu³, Georg von Samson-Himmelstjerna²

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1818

INSIGHTS FROM MATHEMATICAL MODELS OF SOIL TRANSMITTED HELMINTH (STH) TRANSMISSION INTO POLICY FOR THEIR CONTROL AND ELIMINATION BY MASS DRUG ADMINISTRATION (MDA)

Sam Farrell¹, Luc Coffeng², James Truscott¹, Sake de Vlas², Roy Anderson¹
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1819

EFFICACY OF ANTHELMINTHIC DRUGS AND DRUG COMBINATIONS AGAINST SOIL-TRANSMITTED HELMINTHS: A SYSTEMATIC REVIEW AND NETWORK META-ANALYSIS

Naomi Clarke¹, Suhail A. Doi², Kinley Wangdi¹, Yingxi Chen¹, Archie C. Clements¹, Susana Vaz Nery¹
¹Australian National University, Canberra, Australia, ²Qatar University, Doha, Qatar

1820

SEASONAL INFLUENCERS FOR *ASCARIS* TRANSMISSION: WHAT COULD THEY MEAN FOR PUBLIC HEALTH PROGRAMS AND THE 2020 GOALS?

Emma L. Davis, Deirdre Hollingsworth
University of Warwick, Coventry, United Kingdom

1821

INTESTINAL POLYPARASITISM IN PAMPA DEL INDIO, CHACO PROVINCE, ARGENTINA

Maria V. Periago¹, Cintia Delgado¹, Sergio Wasilewsky¹, Marta Cabrera²
¹Fundación Mundo Sano, Buenos Aires, Argentina, ²Instituto Nacional de Enfermedades Infecciosas, Administración Nacional de Laboratorios e Institutos de Salud "Dr. Carlos G. Malbrán", Buenos Aires, Argentina

1822

DIFFERENTIAL EXPRESSION OF MEMBRANE AND MEMBRANE-BOUND PROTEINS FROM FILARIFORM LARVAE AND ADULT FEMALE OF *STRONGYLOIDES VENEZUELENSIS*

Fabiana M. Paula¹, Marcelo A. Corral¹, Priscilla D. Marques¹, Dirce Mary C. Meisel¹, Julia Maria Costa-Cruz², Maria Cristina Espirito Santo¹, Jonatan M. Campos³, Bruno Mattei³, William Castro Borges⁴, Ronaldo Cesar Gryscek¹
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1823

DIAGNOSIS OF *ASCARIS LUMBRICOIDES* INFECTIONS IN ETHIOPIAN CHILDREN AND ADULTS BY THREE COPROLOGICAL TECHNIQUES AND TWO NOVEL SEROLOGICAL TESTS

Daniel Dana¹, Johnny Vlamincx², Mio Ayana¹, Zeleke Mekonnen¹, Peter Geldhof², Bruno Levecke²
¹Jimma University, Jimma, Ethiopia, ²Ghent University, Merelbeke, Belgium

1824

PREVALENCE OF INTESTINAL HELMINTH INFECTION IN EQUATOGUINEAN INFANTS, CHILDREN, ADOLESCENT AND ADULTS AND ITS IMPACT ON IMMUNOGENICITY TO A LIVE, ATTENUATED, WHOLE SPOOROZITE MALARIA VACCINE

Jose Raso¹, Maximilian Mpina², Elizabeth Nyakarungu², Ally Olotu², Vicente U. Nsue Ndong Nchama¹, Ali Hamad², Ali Mtoro², Mwajuma Chemba², Stephen R. Manock³, Esther Eburu⁴, Antonio E. Ngua Sama Roca⁴, Martin Eka Ondo Mangué¹, Thomas Stabler⁵, Yonas Abebe⁶, Salomón Nguema Owono¹, Matilde Riloha Rivas¹, Chris Schwabe⁷, Julie Niemczura de Carvalho⁸, Luis Segura⁴, Wonder Phiri⁴, Tobias Schindler⁹, Elizabeth Saverino⁶, Peter F. Billingsley⁶, B. Kim Lee Sim⁶, Thomas Richie⁶, Salim Abdulla², Marcel Tanner⁹, Stephen Hoffman⁶, Claudia Daubenberger⁹
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1825

DETECTION OF SOIL TRANSMITTED HELMINTH DNA IN STOOL SAMPLES DRIED ON FILTER PAPER

Kerstin Fischer¹, Lincoln Gankpala², Kurt C. Curtis¹, Peter U. Fischer¹
¹Washington University School of Medicine, St. Louis, MO, United States, ²Liberian Institute for Biomedical Research, Charlesville, Liberia

1826

TESTING FOR STH ELIMINATION: MODELLING THE IMPACT OF DIFFERENT DIAGNOSTICS TOOLS

James Truscott, Marleen Werkman, James Wright, Roy Anderson
Imperial College London, London, United Kingdom

1827

COMPARISON OF KATO-KATZ, MINI-FLOTAC AND MULTI-PARALLEL REAL-TIME POLYMERASE CHAIN REACTION TECHNIQUES FOR DETECTION OF SOIL-TRANSMITTED HELMINTHS IN FEIRA DE SANTANA, BRAZIL

Ryan H. Avery¹, Simone S. Oliveira², Aristeu V. da Silva², Rojelio A. Mejia³, Marta M. Silva⁴, Rebecca C. Christofferson¹, Laura Rinaldi⁵, John B. Malone¹
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1828

NA-GST-1/ALHYDROGEL HOOKWORM VACCINE CO-ADMINISTERED WITH CPG 10104 IMPROVES IMMUNOGENICITY IN HEALTHY, HOOKWORM NAIVE ADULTS

David Diemert¹, Maria Zumer¹, Doreen Campbell¹, Catherine Hatch¹, Shannon Grahek¹, Jill Brelsford¹, Anna Yakovleva¹, Guangzhao Li¹, Jin Peng¹, Maria Elena Bottazzi², Peter Hotez², Jeffery Bethony¹
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Helminths - Nematodes - Intestinal Nematodes

1829

EXPLORING CHAGAS DISEASE ECO-EPIDEMIOLOGY IN CENTRAL PANAMA

Erin Allmann Updyke, Brian F. Allan
University of Illinois Urbana Champaign, Urbana, IL, United States

1830

QUANTIFICATION OF INFECTION RESERVOIRS IN HUMAN VISCERAL LEISHMANIASIS BY XENODIAGNOSIS

Om Prakash Singh¹, Puja Tiwary¹, Shakti Kumar Singh¹, Anurag Kumar Kushwaha¹, Phillip Lawyer², Edgar Rowton³, Jaya Chakravarty¹, David Sacks⁴, Shyam Sundar¹

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1831

A LEISHMANIN SKIN TEST SURVEY OF CUTANEOUS LEISHMANIASIS IN THE HUMAN POPULATION OF DIEMA DISTRICT, WESTERN MALI

Bourama Traoré¹, Oliveira Fabiano², Ousmane Faye³, Cheick A. Coulibaly¹, Adama Dicko³, Ibrahim M. Sissoko¹, Sibiry Samake¹, Nafomon Sogoba¹, Pierre Traoré¹, Sekou F. Traoré¹, Jennifer M. Anderson², Somita Keita³, Jesus G. Valenzuela¹, Shaden Kamhawi², Seydou Doumbia¹

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1832

BIOGEOGRAPHY OF *TRYPANOSOMA CRUZI* IN AREQUIPA, PERU

Alexander Berry, Michael Z. Levy, Dustin Brisson
University of Pennsylvania, Philadelphia, PA, United States

1833

TRYPANOSOMA CRUZI ECOLOGY AT FACILITIES HOUSING NATURALLY INFECTED NON-HUMAN PRIMATES IN TEXAS, USA

Carolyn L. Hodo¹, Elise C. Birkner¹, Gregory K. Wilkerson², Stanton B. Gray², Rachel Curtis-Robles¹, Mark Cottingham³, Geraldine Fleurie³, Sarah A. Hamer¹
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1834

ANTIMONY SENSITIVITY OF *LEISHMANIA BRAZILIENSIS* PROMASTIGOTES VARIES ACCORDING TO THE FORM OF LEISHMANIASIS THEY DERIVE

Silvana C. Silva¹, Luiz Henrique Guimarães², Juliana A. Silva¹, Viviane Magalhães¹, Lillian Medina¹, Adriano Queiroz¹, Paulo Roberto L. Machado¹, Albert Schriefer¹

¹*Hospital Universitário Prof. Edgard Santos, Salvador, Brazil*,
²*Universidade Federal do Sul da Bahia, Teixeira de Freitas, Brazil*

1835

LYMPHATIC FILARIASIS MASS DRUG ADMINISTRATION COVERAGE, COASTAL REGION, KENYA, 2015 AND 2016

Cecilia N. Wandera
Ministry of Health, Nairobi, Kenya

1836

ECO-BIO-SOCIAL DETERMINANTS OF HUMAN INFECTION WITH *TRYPANOSOMA CRUZI* IN RURAL COMMUNITIES IN THE ARGENTINE CHACO

Maria P. Fernandez¹, Maria S. Gaspe¹, Paula Sartor², Ricardo E. Gürtler¹
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²*Programa Provincial de Chagas, Resistencia, Chaco, Argentina*

1837

SEROLOGICAL EVIDENCE OF *TRYPANOSOMA CRUZI* INFECTION AMONG BLOOD DONORS IN MARICOPA COUNTY, ARIZONA, 2007-2016

Norman Beatty¹, Craig Levy²
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²*Maricopa County Public Health Department, Office of Epidemiology, Communicable Disease Unit, Phoenix, AZ, United States*

1838

CHAGAS DISEASE. A SYSTEMATIC REVIEW OF CASE REPORTS THROUGH THE LAST 50 YEARS

Diego Abelardo Alvarez Hernandez¹, Maria Jose Diaz Huizar¹, Jorge Alberto Ascencio Aragon¹, Yolanda Hernandez Ponce¹, Alexia S. Rivera¹, Alberto Manuel Gonzalez Chavez², Ana Maria Fernandez Presas³
¹*Universidad Anahuac Mexico Norte, Mexico State, Mexico*,
²*Hospital Español de Mexico, Mexico City, Mexico*,
³*Universidad Nacional Autonoma de Mexico, Mexico City, Mexico*

1839

TRYPANOSOMA CRUZI INFECTION AND CARDIAC OUTCOMES IN GOVERNMENT WORKING DOGS ACROSS THE UNITED STATES

Alyssa Meyers¹, Marvin Meinders², Sarah Hamer¹
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²*Office of Health Affairs, Department of Homeland Security, Washington, DC, United States*

1840

VISCERAL LEISHMANIASIS IN SYRIA: A SILENT KILLER UNCOVERED

Alice L. Cowley, Jonathan Hollins, Richard Allan
The MENTOR Initiative, Crawley, United Kingdom

1841

HEALTH SECURITY DURING ERA OF CONFLICT AND FORCED DISPLACEMENT: LEISHMANIASIS AS A CASE STUDY

Amina Olabi¹, Mohamad Haj Omar Albathish², Rabab Almalki³, Karina Mondragon-Shem⁴, Peter Hotez⁵, Alvaro Acosta-Serrano⁴, Waleed S. Al Salem⁶
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⁴*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*,
⁵*National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States*,
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1842

VISCERAL LEISHMANIASIS IN THE URBAN AREA OF TWO MUNICIPALITIES OF SAO PAULO STATE, BRAZIL: A KEY TO UNDERSTAND THE ROLE OF THE STREET LEVEL BUREAUCRATS

Lourdes A. D'Andrea, Elivelton S. Fonseca, Raul B. Guimarães
São Paulo State University, Presidente Prudente, Brazil

1843

EPIDEMIOLOGY OF *TRYPANOSOMA CRUZI* IN URBAN DWELLING OPOSSUM (*DIDELPHIS VIRGINIANA*) AND FERAL CAT (*FELIS CATUS*) POPULATIONS OF THE RIO GRANDE VALLEY, TEXAS

Italo B. Zecca, Lisa Auckland, Sarah Hamer
Texas A&M University, College Station, TX, United States

One Health: Interface Of Human Health/ Animal Diseases

1844

PILOTING WORKSTATIONS TO IMPROVE HYGIENE PRACTICES AMONG POULTRY WORKERS DURING POULTRY PROCESSING IN A LIVE BIRD MARKET IN BANGLADESH

Nadia A. Rimi¹, Md. H. Fahad¹, Syed M. Mortaza¹, Abdullah A. Mahmud¹, Md. A. Islam¹, Md. Z. Hassan¹, Rebeca Sultana¹, Katharine Sturm-Ramirez²
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1845

DOG OWNERS' ATTITUDE, A RISK FACTOR FOR HUMAN RABIES IN NIGERIA

Christianah I. Odita, Ishaya S. Tekki, Gyang D. Moses, Okoh K. Egwu, Stella E. Idachaba, Israel J. Barde, Isioma V. Ifende, Olabisi A. Makanju, James S. Ahmed, Yakubu G. Dashe, Chika I. Nwosuh, Philip A. Okewole
National Veterinary Research Institute Vom Plateau State Nigeria, Jos, Nigeria

1846

MARINE MAMMAL STRANDINGS IN PERUVIAN COAST: A 11 YEARS STUDY

Adrian Vasquez-Mejia, Guillermo Salvatierra R., Andrés G. Lescano
Universidad Peruana Cayetano Heredia, Lima, Peru

1847

RESEARCH ON ZONOTIC AND NEGLECTED DISEASES IN CHAD: CASE OF TUBERCULOSIS, RIFT VALLEY FEVER, BRUCellosIS AND Q FEVER

Ngandolo Bongo Nare B. Nare
Institut de Recherche en Elevage pour le Developpement (IREDA), N'Djamena, Chad

1848

EMERGING INFECTIOUS DISEASES PREDICTION: A STUDY ON *IXODES SCAPULARIS*-BORNE PATHOGENS

Tam Tran, Dustin Brisson
University of Pennsylvania, Philadelphia, PA, United States

1849

CATTLE-ASSOCIATED RISK FACTORS FOR HUMAN TUBERCULOSIS IN RURAL LIVESTOCK KEEPING COMMUNITIES, UGANDA

Julianne Meisner¹, Kellie Curtis², Thomas W. Graham², Michael Apamaku², Lisa

E. Manhart¹, Gerard Cangelosi¹, Peter R. Rabinowitz¹

¹University of Washington, Seattle, WA, United States, ²Veterinarians Without Borders, Davis, CA, United States

1850

ANTIMICROBIAL RESISTANCE TRANSMISSION ASSOCIATED WITH SMALL-SCALE FOOD-ANIMAL PRODUCTION IN PERI-URBAN COMMUNITIES OF QUITO, ECUADOR

Jay Paul Graham
Public Health Institute, Oakland, CA, United States

1851

"LET'S GET THIS TICKING TIME BOMB!"

Patricia Pow-Brown, Candice Sant, Karla C. Georges
The University of The West Indies, Mt. Hope, Trinidad and Tobago

1852

THE ROLE OF ANTHROPOGENIC LAND-USE CHANGE IN DRIVING DISEASE EMERGENCE IN HIGHLY-COUPLED VECTOR-HOST SYSTEMS: ZONOTIC CUTANEOUS LEISHMANIASIS AS A CASE SYSTEM

Gideon Wasserberg¹, Clifford Smyth¹, Ido Tsurim²
¹University of North Carolina at Greensboro, Greensboro, NC, United States, ²Achva Academic College, Gedera, Israel

1853

MATHEMATICAL MODELLING OF DOG RABIES TRANSMISSION IN AN AFRICAN CITY

Mirjam Laager¹, Celine Mbilo¹, Monique Léchenne¹, Kemdongarti Naissengar², Assandi Oussiguéré², Rolande Mindekem², Jakob Zinsstag¹, Nakul Chitnis¹
¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²Institut de Recherche en Elevage pour le Développement, N'Djamena, Chad, ³Centre de Support en Santé Internationale, N'Djamena, Chad

1854

NEEDS ASSESSMENT AND ALTERNATIVE STRATEGIES TO ACHIEVE THE ELIMINATION OF DOG-MEDIATED HUMAN RABIES DEATHS BY 2030 BASED ON DOG VACCINATION

Ryan M. Wallace, Eduardo A. Undurraga, Jesse D. Blanton, Julie Cleaton, Richard Franka
Centers for Disease Control and Prevention, Atlanta, GA, United States

1855

THE COST-EFFECTIVENESS OF A NOVEL INTEGRATED BITE CASE MANAGEMENT PROGRAM FOR THE CONTROL OF DOG-MEDIATED HUMAN RABIES, WEST DEPARTMENT, HAITI, 2014-2015

Eduardo A. Undurraga¹, Martin I. Meltzer¹, Cuc H. Tran¹, Charisma Y. Atkins¹, Melissa D. Etheart¹, Max F. Millien², Paul Adrien³, Ryan M. Wallace¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Ministère de l'Agriculture, des Ressources Naturelles et du Développement Rural, Port-au-Prince, Haiti, ³Ministère de la Santé Publique et de la Population, Port-au-Prince, Haiti

1856

ONE HEALTH APPROACH TO COST-EFFECTIVE RABIES CONTROL IN INDIA

Meagan C. Fitzpatrick¹, Hiral A. Shah², Alyssa M. Bilinski³, Manish Kakkar⁴, Andrew D. Clark⁵, Jeffrey P. Townsend⁶, Syed S. Abbas⁴, Alison P. Galvani⁶
¹University of Maryland School of Medicine, Baltimore, MD, United States, ²Imperial College, London, United Kingdom, ³Harvard T.H. Chan School of Public Health, Boston, MA, United States, ⁴Public Health Foundation of India, New Delhi, India, ⁵London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁶Yale School of Public Health, New Haven, CT, United States

1857**THE CONTROL OF ZONOTIC VISCERAL LEISHMANIASIS IN EUROPE****Epke Le Rutte¹**, Roosmarijn van Straten², Paul A. Overgaauw²¹*Erasmus MC, Rotterdam, Netherlands*, ²*Faculty of Veterinary Medicine, Utrecht University, Netherlands*

1858**HOUSEHOLD PARTICIPATION IN PIG AND HUMAN INTERVENTIONS FOR CONTROL OF *TAENIA SOLIUM* AND LIKELIHOOD OF CONTINUED TRANSMISSION A YEAR LATER IN NORTHERN PERU****Lauralee J. Fernandez¹**, Michelle Beam¹, Ruth Atto², Roberto Camizan², Angela Spencer¹, Brian Garvey¹, Ian Pray¹, Ricardo Gamboa², Percy Vilchez², Claudio Muro², Sandra Olaya², Luz Maria Moyano², Hector H. Garcia⁴, Seth E. O'Neal¹, For the Cysticercosis Working Group in Peru⁴¹*Oregon Health & Science University, Portland, OR, United States*, ²*Center for Global Health Tumbes, Universidad Peruana, Tumbes, Peru*, ³*Epidemiology Unit, Hospital Regional JAMO II-2, Tumbes, Peru*, ⁴*Cysticercosis Unit, Instituto Nacional de Ciencias Neurológicas, Lima, Peru*

1859**REEMERGENCE OF CANINE RABIES IN COMPLEX URBAN ENVIRONMENTS: LESSONS FROM AN OUTBREAK IN AREQUIPA, PERU****Ricardo Castillo-Neyra¹**, Valerie Paz-Soldan², Alison Buttenheim³, Hannelore MacDonald⁴, Andrew Johnson⁴, Cesar Naquira⁵, Michael Z. Levy¹¹*Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States*, ²*School of Public Health and Tropical Medicine, Tulane University, New Orleans, LA, United States*, ³*School of Nursing, Family and Community Health, University of Pennsylvania, Philadelphia, PA, United States*, ⁴*Department of Biology, University of Pennsylvania, Philadelphia, PA, United States*, ⁵*Universidad Peruana Cayetano Heredia, Lima, Peru*

Pneumonia, Respiratory Infections and Tuberculosis

1860**ANTIMYCOBACTERIAL EFFECT OF VARYING CONCENTRATIONS OF E559: A NATURAL PLANT PRODUCT IN NIGERIA****Wisdom O. Iyanda-Joel**, Emeka E. Iweala, Shalom N. Chinedu
Covenant University, Ota, Nigeria

1861**EVALUATION OF A LOW-COST AIR SAMPLING SYSTEM FOR THE DETECTION OF *MYCOBACTERIUM TUBERCULOSIS* IN COUGHING PATIENTS****Nehal S. Naik¹**, Gwenth O. Lee², German Comina², Gustavo Hernandez², Carlton Evans³, Sumona Datta³, Eduardo Ticona⁴, Eric Ramos⁵, Jorge Coronel⁵, Robert Gilman⁶, Valerie A. Paz-Soldan², Richard Oberhelman²¹*University of North Carolina, Chapel Hill, NC, United States*, ²*Tulane University, New Orleans, LA, United States*, ³*Imperial College, London, United Kingdom*, ⁴*Hospital Nacional Dos de Mayo, Lima, Peru*, ⁵*Universidad Peruana Cayetano Heredia, Lima, Peru*, ⁶*Johns Hopkins University, Baltimore, MD, United States*

1862**CO-INFECTION AS A RISK FACTOR FOR DISEASE SEVERITY AMONG PATIENTS WITH ADENOVIRUS INFECTION****Olga D. Lorenzi-Pena¹**, Xiomara Torres-Figueroa², Jennifer S. Read¹, Brenda C. Torres-Velasquez¹, Carlos Garcia-Gubern², Luisa Alvarado²¹*Centers for Disease Control and Prevention, Dengue Branch, San Juan, PR, United States*, ²*Saint Luke's Episcopal Hospital-Ponce Health Sciences University Consortium, Ponce, PR, United States*

1863**MEASUREMENT OF POA EFFLUX PUMPS RATE IN *MYCOBACTERIUM SMEGMATIS* STRAINS OBTAINED BY GENE KNOCKOUT****Ricardo Antiparra**, Marco Santos, Katherine Vallejos, Fabiana Málaga, Rodolfo Huerta, Patricia Sheen, Mirko Zimic
Universidad Peruana Cayetano Heredia, Lima, Peru

1864**CARETAKERS PERSPECTIVES OF PEDIATRIC TB AND IMPLICATIONS FOR CARE SEEKING BEHAVIORS IN SOUTHERN MOZAMBIQUE****Yolanda Mause**, Khatia Munguambe, Carolina Mindu, Orvalho Augusto, Jose Munoz, Rui Anselmo, Kisito Gondo, Jahit Sacarlal, Alberto Garcia Bateriairo, Elisa Lopez-Varela, Pedro Alonso
Manhica Health Research Center, Vila da Manhica, Mozambique

1865**EFFECTIVENESS OF PCV-10 VACCINE AGAINST VACCINE TYPE IPD IN PAKISTAN: IMPACT ASSESSMENT AFTER INTRODUCTION OF PCV-10 IN ROUTINE IMMUNIZATION PROGRAM****Asad Ali**, Atif Riaz, Syed Mohiuddin, Tahir Yousafzai, Sara Husain, Furqan Kabir, Anita K. Zaidi*Aga Khan University, Karachi, Pakistan*

1866**IMPACT OF PNEUMOCOCCAL CONJUGATE VACCINE (PCV-10) ON PNEUMOCOCCAL NASOPHARYNGEAL CARRIAGE IN CHILDREN IN PAKISTAN: RESULTS OF SERIAL SURVEYS PRE AND POST INTRODUCTION OF VACCINE IN ROUTINE IMMUNIZATION PROGRAM****Imran Nisar**, Atif Riaz, Furqan Kabir, Fyezah Jehan, Asad Ali*Aga Khan University, Karachi, Pakistan*

1867**FOOD SECURITY AND DIETARY INTAKE OF TUBERCULOSIS PATIENTS IN LIMA, PERU****Gwenyth Lee¹**, Valerie Paz-Soldan¹, Andrea Gomez², Katerine Villaizan³, Amy R. Riley-Powell¹, Carla Tarazona⁴, Ramya Ambikapathi⁵, Katherine Ortiz¹, German Comina¹, Gustavo Hernandez¹, Nehal Naik⁶, Richard Oberhelman¹, Cesar Ugarte-Gil⁸¹*Tulane University, New Orleans, LA, United States*, ²*Tulane University/Universidad Autónoma Metropolitana, Mexico City, Mexico*, ³*Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru*, ⁴*Asociación Benéfica PRISMA, Lima, Peru*, ⁵*the Harvard T.H. Chan School of Public Health, Boston, MA, United States*, ⁶*Virginia Commonwealth University, Richmond, VA, United States*

1868**ANTIMICROBIAL RESISTANCE PATTERNS OF COLONIZING *STREPTOCOCCUS PNEUMONIAE* AMONG YOUNG CHILD-MOTHER PAIRS IN THE RURAL HIGHLANDS OF THE PERUVIAN ANDES****Leigh M. Howard¹**, Kathryn M. Edwards¹, Marie R. Griffin¹, Ana I. Gil², Erik Mercado³, Theresa J. Ochoa³, Gina Minaya², **Claudio F. Lanata²**, Carlos G. Grijalva¹¹*Vanderbilt University Medical Center, Nashville, TN, United States*, ²*Instituto de Investigacion Nutricional, Lima, Peru*, ³*Universidad Peruana Cayetano Heredia, Lima, Peru*

1869

THERAPEUTIC DRUG LEVELS OF FIRST-LINE TUBERCULOSIS MEDICATIONS AMONG CHILDREN FROM RURAL TANZANIA

Museveni Justine¹, Anita Yeconia¹, Nicodemu Ingi¹, Domitila Augustino¹, Jean Gratz², Estomih Mduma¹, Sayoki Mfinanga³, Charles Peloquin⁴, Scott Heysell², Eric Houpt², **Tania A. Thomas**²

¹Haydom Lutheran Hospital, Haydom, United Republic of Tanzania, ²University of Virginia, Charlottesville, VA, United States, ³National Institute of Medical Research, Dar es Salaam, United Republic of Tanzania, ⁴University of Florida, Gainesville, FL, United States

1870

DRUG RESISTANT TUBERCULOSIS

Stellah G. Mpagama¹, Peter Mbelele¹, Anna Chongolo¹, Isaack Lekule¹, Johnson Lyimo², Scott Heysell³

¹Kibong'oto Infectious Diseases Hospital, Moshi, United Republic of Tanzania, ²National TB and Leprosy Programme, Dar es Salaam, United Republic of Tanzania, ³Division of Infectious Diseases and International Health, University of Virginia, Charlottesville, VA, United States

1871

MYCOBACTERIUM TUBERCULOSIS PREVALENCE IN A MILITARY POPULATION

John Mark Velasco¹, Noel Gaurano², Paula Corazon Diones¹, Ma. Theresa Valderama¹, Kathyleen Nogrado¹, Ma. Theresa Alera¹, Domingo Jr Chua², Damon Ellison¹, Alden Weg¹, Louis Macareo¹, Brett Swierczewski¹

¹U.S. Army Medical Directorate-Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²VLGH, AFPMC, Manila, Philippines

1872

MAPPING LOWER RESPIRATORY INFECTIONS IN SPACE AND TIME IN AFRICA

Robert C. Reiner, Nick Graetz, Scott Swartz, Puja C. Rao, Jonathan Mosser, Aniruddha Deshpande, Aaron Osgood-Zimmerman, Roy Burstein, Chris Troeger, Simon Hay

University of Washington, Seattle, WA, United States

1873

DOES THE ABSENCE OF HYBRIDIZATION WITH THE WILD-TYPE PROBE IN THE GENOTYPE MTBDRPLUS ASSAY MEAN THE MYCOBACTERIUM TUBERCULOSIS ISOLATE IS RIFAMPICIN RESISTANT?

Ngu N. Abanda

University of Hawaii at Manoa, Honolulu, HI, United States

1874

AFFINITY NANOCAGES ENABLE DETECTION OF MYCOBACTERIUM TUBERCULOSIS LAM AND PROTEIN ANTIGENS IN THE URINE OF HIV NEGATIVE PULMONARY TB PATIENTS

Alessandra Luchini¹, Luisa Paris¹, Ruben Magni¹, Jorge Coronel², Daniela Kirwan³, Hannah Steinberg⁴, Emanuel Petricoin¹, Roberto Nisini⁵, Lance Liotta¹

¹George Mason University, Manassas, VA, United States, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³St. George's Hospital, London, United Kingdom, ⁴Johns Hopkins University, Baltimore, MD, United States, ⁵Istituto Superiore di Sanita', Rome, Italy

Protozoa - Other Protozoa

1875

QUALITATIVE AND QUANTITATIVE ANALYSIS OF CRYPTOSPORIDIUM PARVUM GROWTH IN POLARIZED INTESTINAL EPITHELIAL CELLS

Robert E. Molestina, Biniam Hagos, Timothy T. Stedman
ATCC, Manassas, VA, United States

1876

COMPARATIVE TRANSCRIPTOMICS ANALYSIS OF ZONOTIC PROTOZOAN PARASITE, BABESIA MICROTI FROM MOUSE MODEL

Shen-Bo Chen¹, Hai-Mo Shen¹, Jun-Hu Chen^{*1}, Wei Hu^{*2}

¹National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention, Shanghai, China, ²School of Life Sciences, Fudan University, Shanghai, China

1877

WHOLE GENOME DNA SEQUENCE CAPTURE APPROACH REVEALS TREMENDOUS GENETIC DIVERSITY IN INTRACELLULAR PATHOGEN THEILERIA PARVA

Nicholas C. Palmateer¹, Kyle Tretina¹, Roger Pelle², Elias Awino², Hanzel T. Gotia¹, Vish Nene², Claudia A. Daubenberger³, Richard P. Bishop², Joana C. Silva¹

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²International Livestock Research Institute, Nairobi, Kenya, ³Swiss Tropical and Public Health Institute and University of Basel, Basel, Switzerland

1878

BLASTOCYSTIS AS A MARKER OF FECAL-ORAL OR WATER CONTAMINATION IS ASSOCIATED WITH AN INCREASED RISK FOR GASTROINTESTINAL PARASITIC INFECTION

Kevin Naceanceno¹, Gabriela Matamoros², Maria Elena Botazzi¹, Ana Sanchez³, Rojelio Mejia¹

¹Baylor College of Medicine, Houston, TX, United States, ²National University of Honduras, Tegucigalpa, Honduras, ³Brock University, St. Catharines, ON, Canada

1879

SINGLE MOLECULE, REAL-TIME SEQUENCING OF PCR PRODUCTS REVEALS THEILERIA PARASITE SPECIES AND ANTIGEN DIVERSITY

Kyle Tretina¹, Jamal Badoui¹, Nicholas C. Palmateer¹, Richard P. Bishop², Joana C. Silva¹

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²International Livestock Research Institute, Nairobi, Kenya

1880

EVIDENCE OF RNA EDITING IN BABESIA MICROTI

Olukemi O. Ifeonu, Ankit Dwivedi, Joana C. Silva

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

1881

KILLING OF CRYPTOSPORIDIUM SPOROZOITES BY LACTOFERRIN

Jose L. Paredes¹, Hayley Sparks², A. Clinton White, Jr.², Theresa J. Ochoa¹, Alejandro Castellanos-González²

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Infectious Disease Division, Department of Internal Medicine, University of Texas Medical Branch, Galveston, TX, United States

1882

REAL-TIME PCR STRATEGY FOR DETECTION OF TOXOPLASMA GONDII FROM PERIPHERAL BLOOD CLOT

Cusi Ferradas¹, Renzo Gutierrez-Loli¹, Andrea Diestra¹, Aliko Traianou¹, Holger Mayta¹, Maritza Calderon¹, Jaeson S. Calla-Choque², Robert H. Gilman³

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²School of Medicine, University of California, San Diego, CA, United States, ³Department of International Health, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

1883

URBANORUM SPP. EMERGING MICROORGANISM IN FECAL SAMPLES OF CHILDREN AT THE NATIONAL INSTITUTE OF CHILD HEALTH, AND OF ANIMALS: PIG AND CATTLE FROM LIMA, PERU FROM JANUARY TO MARCH, 2017

Rito Zerpa¹, Norma Uchima², Lilian Patiño³, Norah Tocasca⁴, Percy Lezama⁵, Edwin Correo⁶

¹Instituto de Medicina Tropical "Daniel Alcides Carrión", Lima, Peru,

²Laboratorio del Policlínico de la Asociación Peruana-Japonesa, Lima, Peru,

³Instituto Nacional de Salud del Niño, Lima, Peru, ⁴Instituto Nacional de

Enfermedades Neoplásicas, Lima, Peru, ⁵Frigorífico La Colonial Sac, Lima, Peru,

⁶Universidad Peruana Cayetano Heredia, Lima, Peru

1884

EVALUATION OF THE IMMUNOSUPPRESSIVE EFFECT OF DEXAMETHASONE IN SWISS MICE INFECTED WITH TOXOPLASMA GONDII ME49 STRAIN

Juan Jimenez¹, Raul Ynocente¹, Christian Huaman¹, Noelia Angulo², Alejandro Florentini², Maritza Calderon²

¹UNMSM, Lima, Peru, ²UPCH, Lima, Peru

Water, Sanitation, Hygiene and Environmental Health

1885

IMPACT OF IMPLEMENTING A STATE CERTIFIED IMPROVED COOKSTOVE ON CONCENTRATION LEVELS OF PARTICULATE MATTER (PM) AND CARBON MONOXIDE (CO) IN RURAL ANDEAN HOUSEHOLD IN PERU

Patricia Mallma¹, Stella M. Hartinger¹, Cesar Carcamo¹, Hector Verastegui¹,

Nestor Nuño², Daniel Mäusezahl²

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Swiss Tropical and Public Health Institute, Basel, Switzerland

1886

IMPACT OF HOUSEHOLD WATER SOURCE ON SCHOOL ABSENCE AMONG CHILDREN LIVING OUTSIDE OF PORT-AU-PRINCE, HAITI

Suyane Viana de O. Mesquita¹, Julia Painter¹, Marie Y. Remy², Robert Nicolas², Michael E. von Fricken¹

¹George Mason University, Department of Global and Community Health,

Fairfax, VA, United States, ²African Methodist Episcopal Church - Service and Development Agency Inc., Washington, DC, United States

1887

INFLUENCE OF ENVIRONMENTAL CONDITIONS ON NUTRITIONAL STATUS AMONG SCHOOL-AGE CHILDREN IN HAITI

Michael E. von Fricken¹, Chike Achudume¹, Suyane Viana de O. Mesquita¹, Marie Y. Remy², Robert Nicolas², Ivan Ng¹

¹George Mason University, Department of Global and Community Health,

Fairfax, VA, United States, ²African Methodist Episcopal Church - Service and Development Agency Inc., Washington, DC, United States

1888

THE INFLUENCE OF SANITATION ON CHILDHOOD DIARRHEA IN 2016 AND ITS IMPLICATIONS ON INTEGRATED COMMUNITY CASE MANAGEMENT OF ENDEMIC CHILDHOOD DISEASES IN ABIA STATE, NIGERIA

Ugo U. Enebeli

Federal University of Technology, Owerri, Nigeria

1889

ENVIRONMENTAL IMPACT ON HELMINTH AND PROTOZOA INTESTINAL INFECTIONS IN URBAN SLUMS VERSUS RURAL COLOMBIA

Alejandro Restrepo¹, Patricia E. Bryan¹, Marcela Romero², Giovanni Torres², Wilber Gómez², Marcos Restrepo², Rojelio Mejía¹

¹Baylor College of Medicine, Houston, TX, United States, ²Instituto Colombiano de Medicina Tropical, Medellín, Colombia

1890

HOUSEHOLD CONTAMINATION OF BABY BOTTLES USED FOR FORMULA FEEDING IN PERI-URBAN LIMA, PERU

Jessica Rothstein¹, Alejandra Llican Mendoza², Lilia Cabrera³, Maritza

Calderon², Robert Gilman¹

¹Johns Hopkins University, Baltimore, MD, United States, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Asociación Benéfica PRISMA, Lima, Peru

1891

A SCALABLE HOSPITAL-BASED HANDWASHING WITH SOAP AND WATER TREATMENT INTERVENTION FOR HOUSEHOLD MEMBERS OF DIARRHEA PATIENTS IN BANGLADESH (CHOB17 TRIAL): INTERVENTION DEVELOPMENT AND USERS' EXPERIENCES

Elizabeth D. Thomas¹, M. Tasdik Hasan², Fatema Zohura², Md Sohel Rana¹, Tahmina Parvin², Md Khobair Hossain², Maynul Hasan², Khaled Hasan¹, Shirajum Monira², Mahamud-ur Rashid², Sazzadul Islam Bhuyian², Peter J. Winch¹, Elli Leontsini¹, Jamie Perin¹, Alain Labrique¹, Kelsey Zeller¹, Farzana Begum², Alana Teman¹, Vanessa Burrowes¹, Fosiul A. Nizame², David A. Sack¹, R. Bradley Sack¹, Munirul Alam², Christine Marie George¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United

States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

1892

VARIABILITY IN STRENGTH OF ASSOCIATION WITH DIARRHEA OF PATHOGENIC E. COLI ALONG AN URBAN-RURAL GRADIENT IN ECUADOR

Karen Levy¹, Shanon Smith¹, William Cevallos², Loreno Montero³, Maritza Paez², Estefania Ortega³, Xavier Sanchez², Edison Puebla², Pablo Endara³, Gabriel Trueba³

¹Emory University, Atlanta, GA, United States, ²Universidad Central del Ecuador, Quito, Ecuador, ³Universidad San Francisco de Quito, Quito, Ecuador

1893

DETERMINANTS OF DIARRHEAL DISEASE IN CHILDREN UNDER FIVE YEARS IN THE DEMOCRATIC REPUBLIC OF THE CONGO

Andrea Smith, Janna Wisniewskie, Paul Lusamba, Paul Hutchinson, Joshua Yukich, Paul R. Hotchkiss

Tulane University, New Orleans, LA, United States

1894

ASSOCIATION OF WATER SUPPLY WITH BRETEAU INDEX IN TWO RURAL CARIBBEAN POPULATION

Maria S. Ruiz-Diaz, Gustavo J. Mora-Garcia, Doris E. Gomez-Camargo
Universidad de Cartagena, Cartagena de Indias, Colombia

1895

ASSESSMENT OF ABATTOIRS AND MARKETS SANITATION IN THE FEDERAL CAPITAL TERRITORY (ABUJA) AND ENUGU STATE, NIGERIA

Agwu N. Amadi¹, D. O. Abonyi², B. Njoku¹, C. O. Amadi¹, U. Enebelii¹

¹Department of Public Health, Federal University of Technology, Owerri, Imo

State, Nigeria, ²Department of Environmental Health Science, College of Medicine and Health Sciences, Abia State University, Uturu, Abia State, Nigeria

1896

EVERYBODY POOPS: SOCIAL AND CULTURAL NORMS AS PROXY MEASUREMENTS OF INDIVIDUAL-LEVEL DEFECATION PRACTICES

Velma Lopez¹, Veronica Berrocal¹, Pavani Ram², Joseph Eisenberg¹
¹University of Michigan, Ann Arbor, MI, United States, ²University of Buffalo, Buffalo, NY, United States

CTropMed® Exam Committee Meeting

Hilton - Peale B (East Building, First Floor)
Wednesday, November 8, 12:15 p.m. - 1:30 p.m.

Membership Committee Meeting

Hilton - Peale A (East Building, First Floor)
Wednesday, November 8, 12:15 p.m. - 1:30 p.m.

Late Breaker Abstract Session 146

Late Breakers in Malaria

Convention Center - Room 337/338 (Level 300)
Wednesday, November 8, 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 Schedule booklet in your registration packet for the presentation schedule.

CHAIR

Stefan Kappe
Center for Infectious Disease Research, Seattle, WA, United States

Mid-Day Session 147

Meet the Editors: Journal Editor Panel

Convention Center - Room 339/340 (Level 300)
Wednesday, November 8, 12:15 p.m. - 1:30 p.m.

The published manuscript is the elemental communication and currency of the sciences. Investigators young and old continually strive to summarize and present their work to maximum effect, both in terms of scientific as well as career advancement. But there are many different opinions and approaches on how to proceed, often varying by author and journal. Furthermore, the advent of open-access, on-line only, and other novel approaches to format and publication may be daunting to authors. In this symposium, editors of some of the preeminent journals in tropical medicine and global health will engage the audience in a discussion of the focus and approaches of their journals, as well as provide reflections on the present status and future of scientific publishing.

CHAIR

Philip J. Rosenthal
Editor-in-Chief, *American Journal of Tropical Medicine and Hygiene*

PANELISTS

Serap Aksoy
Co-Editor-in-Chief, *PLOS Neglected Tropical Diseases*

Lindsey Baden
Deputy Editor, *New England Journal of Medicine*

Marco De Ambrogi
Senior Editor, *The Lancet Infectious Diseases*

Stephen Higgs
Editor-in-Chief, *Vector-Borne and Zoonotic Diseases*

Anne Roca
Senior Editor, *The Lancet Global Health*

Philip J. Rosenthal
Editor-in-Chief, *American Journal of Tropical Medicine and Hygiene*

Meet the Professors 148

Meet the Professors C: Enigmatic and Teaching Cases

Convention Center - Room 341/342 (Level 300)
Wednesday, November 8, 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. The Professors will discuss how their career has developed as examples for students and trainees.

CHAIR

David R. Boulware
University of Minnesota, Minneapolis, MN, United States

PRESENTER

Chandy C. John
Indiana University, Bloomington, IN, United States

Poster Session C Viewing

Convention Center - Hall F and G (Level 100)
Wednesday, November 8, 1:45 p.m. - 4 p.m.

Scientific Session 149

Malaria: Chemotherapy and Drug Resistance - Clinical Studies

Convention Center - Ballroom I (Level 400)
Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

CHAIR

Abel Kakuru
Infectious Diseases Research Collaboration, Tororo, Uganda

Miriam Laufer
University of Maryland School of Medicine, Institute for Global Health, Baltimore, MD, United States

1:45 p.m.

1897

COMPARATIVE PREVALENCE OF *PLASMODIUM FALCIPARUM* RESISTANCE-ASSOCIATED GENETIC POLYMORPHISMS IN PARASITES INFECTING HUMANS AND MOSQUITOES IN UGANDA

Melissa D. Conrad¹, Daniel Mota¹, Alex Musiime², Maxwell Kilama², John Rek², Moses Kamya³, Grant Dorsey¹, Philip J. Rosenthal¹
¹University of California San Francisco, San Francisco, CA, United States, ²Infectious Disease Research Collaboration, Kampala, Uganda, ³Makerere University College of Health Sciences, Kampala, Uganda

2 p.m.

1898

MOLECULAR SURVEILLANCE OF *P. FALCIPARUM* ANTIMALARIAL RESISTANCE IN SENTINEL SITES FROM MOZAMBIQUE

Himanshu Gupta¹, Eusebio Macete², Augusto Nahbomba², Helder Bulo², Crizolgo Salvador³, Marian Warsame⁴, Eva Carvalho⁵, Didier Ménard⁶, Pascal Ringwald⁴, Quique Bassat⁷, Sonia Enosse³, Alfredo Mayor⁸
¹Barcelona Institute for Global Health, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, ²Cento de Investigaçao em Saude da Manhiça (CISM), Manhiça, Mozambique, ³Instituto Nacional de Saude (INS), Ministerio da Saude, Maputo, Mozambique, ⁴World Health Organization, Global Malaria Programme, Geneva, Switzerland, ⁵World Health Organization, Maputo, Mozambique, ⁶Malaria Molecular Epidemiology Unit, Institut Pasteur du Cambodge, Phnom Penh, Cambodia, ⁷Barcelona Institute for Global Health, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain; Cento de Investigaçao em Saude da Manhiça (CISM), Mozambique; ICREA, Barcelona, Spain, ⁸Barcelona Institute for Global Health, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain; Cento de Investigaçao em Saude da Manhiça (CISM), Manhiça, Mozambique

2:15 p.m.

1899

PATTERN OF K13 POLYMORPHISMS AMONG *PLASMODIUM FALCIPARUM* ISOLATES FROM BORDER AREAS IN THE MEKONG SUBREGION

Chaiyaporn Chaisatit¹, Piyaporn Sai-ngam¹, Kirakarn Kirativanich¹, Thay Kheang Heng¹, Worachet Kuntawunginn¹, Jariyanart Gaywee¹, David Saunders², Chanthap Lon¹, Krisada Jongsakul¹, Michele Spring¹, Mariusz Wojnarski¹, Philip Smith¹, Mark Fukuda¹, Panita Gosi¹
¹Armed Forces Institute of Medical Sciences, Bangkok, Thailand, ²U.S. Army Medical Materiel Development Activity, Fort Detrick, MD, United States

2:30 p.m.

1900

IMPACT OF DIHYDROARTEMISININ-PIPERAQUINE FOR INTERMITTENT PREVENTIVE TREATMENT OF MALARIA DURING PREGNANCY ON MALARIA INCIDENCE IN EARLY CHILDHOOD

Abel Kakuru¹, Jaffer Okiring¹, Mary K. Muhindo¹, Paul Natureeba¹, Patricia Awori¹, Miriam Nakalembe², Bishop Opira¹, Peter Olwoch¹, John Ategeka¹, Patience Nayebare¹, Tamara D. Clark³, Margret E. Feeney³, Edwin D. Charlebois³, Theodore Ruel³, Diane V. Havlin³, Moses R. Kanya², Grant Dorsey³, Prasanna Jagannathan⁴
¹Infectious Diseases Research Collaboration, Kampala, Uganda, ²Makerere University College of Health Sciences, Kampala, Uganda, ³University of California San Francisco, San Francisco, CA, United States, ⁴Stanford University, Stanford, CA, United States

2:45 p.m.

1901

EFFICACY OF ARTEMISININ-BASED AND QUININE-BASED TREATMENTS FOR UNCOMPLICATED FALCIPARUM MALARIA IN PREGNANCY IN ASIA: A SYSTEMATIC REVIEW AND INDIVIDUAL PATIENT DATA META-ANALYSIS

Makoto Saito¹, Rashid Mansoor¹, Mary E. Tyrosvoutis², Kalynn E. Kennon¹, Kasia Stepniewska¹, Georgina S. Humphreys¹, Mupawjay Pimanpanarak², Moo Kho Paw², François H. Nosten², Philippe J. Guérin¹, Rose McGready²
¹WorldWide Antimalarial Resistance Network, Oxford, United Kingdom, ²Shoklo Malaria Research Unit, Mae Sot, Thailand

3 p.m.

1902

RELATIONSHIP BETWEEN LUMEFANTRINE PHARMACOKINETICS AND THE SELECTION OF DRUG RESISTANCE MUTATIONS FOLLOWING ARTEMETHER-LUMEFANTRINE IN HIV-UNINFECTED AND HIV-INFECTED CHILDREN ON ANTIRETROVIRAL THERAPY

Joyce Ou¹, Richard Kajubi², Martina Wade³, Liusheng Huang⁴, Moses Were², Norah Mwebaza², Francesca Aweeka⁴, **Sunil Parikh**³
¹Yale University, New Haven, CT, United States, ²Infectious Diseases Research

Collaboration, Kampala, Uganda, ³Yale School of Public Health, New Haven, CT, United States, ⁴University of California San Francisco, San Francisco, CA, United States

3:15 p.m.

1903

ELECTROCARDIOGRAPHIC EFFECTS OF THE ANTIMALARIAL DRUG DIHYDROARTEMISININ-PIPERAQUINE

Joel Tarning¹, Thanaporn Wattanakul¹, Rita Baiden², Markus Winterberg¹, Bernhards Ogutu², Fred Binka²
¹Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand, ²INDEPTH Network, Accra, Ghana

Scientific Session 150

Malaria: Elimination - Tools and Evidence, Moving toward Zero

Convention Center - Ballroom III (Level 400)
Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

CHAIR

Jaline Gerardin
Institute for Disease Modeling, Seattle, WA, United States

Helene Hiwat
Ministry of Health Suriname, Paramaribo, Suriname

1:45 p.m.

1904

SURINAME ON THE ROAD TO ZERO MALARIA; AN EPIDEMIOLOGIC DESCRIPTIVE STUDY

Hedley Cairo, **Helene Hiwat**, Loretta Hardjopawiro
Ministry of Health Malaria Program, Paramaribo, Suriname

2 p.m.

1905

MALARIA ELIMINATION: ENGAGING COMMUNITIES THROUGH NATIONWIDE CAMPAIGNS

Yakou Dieye¹, Ouleye Beye², Elizabeth Chiyende¹, Gnagna Dieng³, Coumba N. Diouf⁴, Moussa Diop³, Ernest Kakoma⁵, Oumar Sarr², Cheikh S. Senghor⁴, Chilumba Sikombe¹, Fagueye Sonko³, Stacey Naggjar¹, Pauline Wamulume⁵, Hana Bilak⁶, Philippe Guinot³, Todd Jennings¹
¹PATH MACEPA, Lusaka, Zambia, ²National Malaria Control Program, Senegal, Dakar, Senegal, ³PATH MACEPA, Dakar, Senegal, ⁴Ministry of Health, Senegal, Dakar, Senegal, ⁵National Malaria Elimination Centre, Zambia Ministry of Health, Lusaka, Zambia, ⁶PATH MACEPA, Geneva, Switzerland

2:15 p.m.

1906

USE OF ROUTINE HEALTH INFORMATION SYSTEM DATA TO EVALUATE IMPACT OF MALARIA INTERVENTIONS IN ZANZIBAR DURING THE PERIOD 2000-2015

Ruth Ashton¹, Adam Bennett², Abdul-Wahid Al-Mafazy³, Ali Abass³, Mwinyi Msellem⁴, S. René Salgado⁵, Peter McElroy⁶, George Greer⁷, Lynn Paxton⁸, S. Patrick Kachur⁹, Steven Yoon⁶, Abdullah S. Ali³, Joshua Yukich¹, Thomas P. Eisele¹, Achuyt Bhattarai⁶
¹MEASURE Evaluation, Center for Applied Malaria Research and Evaluation, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²Malaria Elimination Initiative, Global Health Group, University of California, San Francisco, CA, United States, ³Zanzibar Malaria Elimination Programme, Ministry of Health, Zanzibar, United Republic of Tanzania, ⁴Mnazi Mmoja Hospital, Zanzibar, United Republic of Tanzania, ⁵U.S. President's Malaria Initiative, United States Agency for International Development, Arlington, VA, United States, ⁶U.S. President's Malaria Initiative, Malaria Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁷U.S. President's Malaria Initiative, United States Agency for International Development, Dar es Salaam, United Republic of Tanzania, ⁸U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Dar es Salaam, United Republic of Tanzania, ⁹Malaria Branch, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

Wednesday
November 8

2:30 p.m.

1907

EVIDENCE OF TRANSMISSION DECLINE DURING MASS DRUG ADMINISTRATION TRIALS IN SOUTHERN ZAMBIA THROUGH PARASITE GENOMICS: AN EXAMPLE OF BARCODING AND ITS UTILITY FOR MALARIA PROGRAMS

Sarah K. Volkman¹, Rachel Daniels², Hawela Moonga³, Conceptor Mulube⁴, Brenda Mambwe⁴, John M. Miller⁴, Richard W. Steketee⁵, Adam Bennett⁶, Thomas P. Eisele⁷

¹Harvard T.H. Chan School of Public Health/Broad Institute/Simmons College, School of Nursing and Health Sciences Collaboration, Boston, MA, United States, ²Harvard T.H. Chan School of Public Health-Broad Institute Collaboration, Boston, MA, United States, ³National Malaria Elimination Centre, Lusaka, Zambia, ⁴PATH MACEPA, Lusaka, Zambia, ⁵PATH MACEPA, Seattle, WA, United States, ⁶University of California San Francisco, San Francisco, CA, United States, ⁷Tulane University, School of Public Health and Tropical Medicine, New Orleans, LA, United States

2:45 p.m.

1908

PCR INCIDENCE OF *PLASMODIUM FALCIPARUM* INFECTIONS IN COHORT SAMPLES OVER TIME DURING A MALARIA MDA RANDOMIZED CONTROL TRIAL IN SOUTHERN PROVINCE ZAMBIA

Mulenga Mwenda¹, Sandra Chishimba¹, Brenda Mambwe¹, Conceptor Mulube¹, Victor Chalwe², Hawela Moonga³, Busiku Hamainza³, Richard W. Steketee⁴, Gonzalo Domingo⁵, Sampa Pal⁵, Kafula Silumbe¹, Ruben Conner⁴, Adam Bennett⁶, Travis Porter⁷, Thomas P. Eisele⁷, John M. Miller¹, Daniel J. Bridges¹
¹PATH MACEPA, Lusaka, Zambia, ²Zambia Ministry of Health, Mansa, Zambia, ³National Malaria Elimination Centre, Zambia Ministry of Health, Lusaka, Zambia, ⁴PATH MACEPA, Seattle, WA, United States, ⁵PATH, Seattle, WA, United States, ⁶Malaria Elimination Initiative, Global Health Group, University of California San Francisco, San Francisco, CA, United States, ⁷Center for Applied Malaria Research and Evaluation, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

3 p.m.

1909

PREVENTING REESTABLISHMENT OF MALARIA IN RECENTLY-ELIMINATED AREAS: A MODELING STUDY OF REACTIVE CASE DETECTION AND ADAPTIVE RESPONSE

Jaline Gerardin¹, Caitlin A. Bever¹, Daniel Bridenbecker¹, Thomas P. Eisele², John M. Miller³, Philip A. Eckhoff¹, Edward A. Wenger¹
¹Institute for Disease Modeling, Seattle, WA, United States, ²Tulane University, New Orleans, LA, United States, ³PATH-MACEPA, Lusaka, Zambia

3:15 p.m.

1910

DEVELOPING A NATIONAL MALARIA ELIMINATION INVESTMENT CASE: A FRAMEWORK AND APPLICATION

Anton L.V. Avancena¹, Arian Hatefi², William Parr³, Rima Shretta¹
¹University of California San Francisco Global Health Group, San Francisco, CA, United States, ²University of California San Francisco, San Francisco, CA, United States, ³Parr and Associates, Picton, New Zealand

Scientific Session 151

Malaria: Vaccines

Convention Center - Ballroom IV (Level 400)
Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

CHAIR

Urszula Krzych
Walter Reed Army Institute of Research, Silver Spring, MD, United States
Navin Venkatraman
University of Oxford, Jenner Institute, Oxford, United Kingdom

1:45 p.m.

1911

HIGH LEVEL EFFICACY IN HUMANS OF A NEXT-GENERATION *P. FALCIPARUM* ANTI-SPOROZOITE VACCINE: R21 IN MATRIX-M™ ADJUVANT

Navin Venkatraman¹, Georgina Bowyer¹, Nick J. Edwards¹, Oliver Griffiths¹, Jonathan Powlson¹, Daniel Silman¹, Richard Morder¹, Pedro M. Folegatti¹, Angela Minassian¹, Ian Poulton¹, Katharine Collins¹, Florian Brod¹, Philip Angell-Manning¹, Eleanor Berrie¹, Nathan Brendish², Greg Glenn³, Louis Fries³, Jake Baum⁴, Andrew M. Blagborough⁴, Rachel Roberts¹, Alison M. Lawrie¹, David J. Lewis⁵, Saul N. Faust², Sarah Gilbert¹, Katie J. Ewer¹, Adrian V. Hill¹
¹University of Oxford, Oxford, United Kingdom, ²NIHR/Wellcome Trust Southampton Clinical Research Facility, Southampton, United Kingdom, ³Novavax, Gaithersburg, MD, United States, ⁴Imperial College, London, United Kingdom, ⁵NIHR/Wellcome Trust Imperial Clinical Research Facility, London, United Kingdom

2 p.m.

1912

SAFETY AND IMMUNOGENICITY OF THE NOVEL *PLASMODIUM FALCIPARUM* BLOOD-STAGE VACCINE RH5.1/AS01B IN A PHASE I/IIA CLINICAL TRIAL

Angela M. Minassian¹, Sarah E. Silk¹, Ian D. Poulton¹, Celia H. Mitton¹, Jing Jin¹, Kazutoyo Miura², Ababacar Diouf², Antonio Querol-Rubiera³, Karen Bismuthsing³, Tatiana Ogrina⁴, Ruth O. Payne¹, Pedro Folegatti¹, Daniel Silman¹, Rahul Batra³, Nathan Brendish⁴, Iona J. Taylor¹, Robert Smith⁵, Eleanor Berrie⁵, Danielle Morelle⁶, Marc Lievens⁶, Amy R. Noe⁷, Lorraine A. Soisson⁸, Rebecca Ashfield¹, Carole A. Long², Anna L. Goodman³, Saul N. Faust⁴, Fay L. Nugent¹, Alison M. Lawrie¹, Simon J. Draper¹
¹University of Oxford, Oxford, United Kingdom, ²Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States, ³Guy's and St. Thomas' Hospital NHS Trust, London, United Kingdom, ⁴NIHR Wellcome Trust Clinical Research Facility, University Hospital Southampton NHS Foundation Trust, Southampton, United Kingdom, ⁵Clinical Biomanufacturing Facility, Oxford, United Kingdom, ⁶GlaxoSmithKline Vaccines, Wavre, Belgium, ⁷Leidos Life Sciences, Fredrick, MD, United States, ⁸United States Agency for International Development, Washington, DC, United States

2:15 p.m.

1913

INTEGRATED ANALYSIS OF ANTIBODY, CYTOKINE AND T CELL RESPONSES INDUCED BY RTS,S/AS01E VACCINATION WITHIN THE AFRICAN PEDIATRIC PHASE 3 TRIAL: SEARCHING FOR CORRELATES OF PROTECTION

Gemma Moncunill¹, Augusto Nhabomba², Maximilian Mpinga³, Itziar Ubillos¹, Stephen De Rosa⁴, Aintzane Ayestaran¹, Hector Sanz¹, Chenjerai Jairoce², Ruth Aguilar¹, Joseph Campo⁵, Alfons Jimenez¹, Marta Vidal¹, Dlana Barrios¹, Kristen Cohen⁴, Daryl Morris⁴, Sheetij Dutta⁶, Jaroslaw Harezlak⁷, Nuria Diez-Padriza¹, Nana Williams¹, John Aponte¹, Clarissa Valim⁸, Juliana McElrath⁴, Claudia Daubenberger⁹, Carlota Dobaño¹
¹ISGlobal, Barcelona, Spain, ²Manhiça Health Research Center, Manhiça, Mozambique, ³Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, ⁴Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ⁵Antigen Discovery Inc., Irvine, CA, United States, ⁶Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁷Indiana University, Bloomington, IN, United States, ⁸Michigan State University, East Lansing, MI, United States, ⁹Swiss Tropical and Public Health Institute, Basel, Switzerland

2:30 p.m.

1914

IGG PROTEOMICS AND BCR SEQUENCING OF SPECIFIC B CELLS FOR ANTIBODY REPERTOIRE ASSESSMENT AFTER MALARIA TRANSMISSION BLOCKING VACCINATION IN MALIAN ADULTS

Camila Henriques Coelho¹, Patricia Gonzales¹, Yai Doritchamou¹, Bob Morrison¹, Olga Muratova¹, Justin Taylor², Allison Schwartz², Ogobara Doumbo³, Issaka Sagara³, Julie Rytlewski⁴, Marissa Vignali⁴, Catherine Sanders⁴, Charles Anderson¹, Michal Fried¹, Patrick Duffy¹

¹National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ²Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ³Malaria Research and Training Center, Bamako, Mali, ⁴Adaptive Biothechnologies Corp, Seattle, WA, United States

(ACMCIP Abstract)

2:45 p.m.

1915

DIFFERENTIAL IMMUNE-RESPONSIVENESS TO PFSPZ VACCINE IN MALARIA-NAÏVE, SEMI-IMMUNE AND IMMUNE POPULATIONS FROM INFANCY TO ADULTHOOD

Sumana Chakravarty¹, Adam J. Ruben¹, Thomas L. Richie¹, Natasha KC¹, B. Kim Lee Sim¹, Said Jongo², Claudia A. Daubenberger³, L. W. Preston Church¹, Salim Abdulla⁴, Kirsten E. Lyke⁵, Robert A. Seder⁶, Mahamadou S. Sissoko⁷, Sara A. Healy⁸, Ogobara Duombo⁷, Patrick E. Duffy⁸, Stephen L. Hoffman¹

¹Sanaria Inc., Rockville, MD, United States, ²Ifakara Health Institute, Bagamoyo Research and Training Centre, Bagamoyo, United Republic of Tanzania, ³Department of Medical Parasitology and Infection Biology, Swiss Tropical and Public Health Institute and University of Basel, Basel, Switzerland, ⁴Bagamoyo Research and Training Centre, Ifakara Health Institute, Bagamoyo, United Republic of Tanzania, ⁵Center for Vaccine Development and Division of Malaria Research, Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ⁶Vaccine Research Center (VRC), National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁷Mali National Institute of Allergy and Infectious Diseases International Centers for Excellence in Research, University of Science, Techniques and Technologies of Bamako, Bamako, Mali, ⁸Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

3 p.m.

1916

HUMAN TO MOSQUITO TRANSMISSION OF P. VIVAX GAMETOCYTES DURING CONTROLLED HUMAN MALARIA INFECTION AND DEVELOPMENT OF VIVAX SPOROZOITES

Katharine A. Collins¹, Hayley Mitchell¹, Matthew Adams¹, Melanie Rampton¹, Gregory J. Robinson¹, Claire Wang², Stephan Chalon³, Jörg J. Möhrle³, James S. McCarthy¹

¹QIMR Berghofer Medical Research Institute, Brisbane, Australia, ²QPID Pty Ltd, Brisbane, Australia, ³Medicines for Malaria Venture, Geneva, Switzerland

3:15 p.m.

1917

A NOVEL HIGHLY PROTECTIVE PLASMODIUM ANTIGEN - A FALCIPARUM VACCINE CANDIDATE

Joao Aguiar¹, Nonenipha Rangel¹, Kyosuke Oda¹, Jianyang Wang¹, John Sacchi², Arnel Belmonte¹, Rachel Velasco¹, Mengyan Du¹, Kathryn Burkert¹, Kalpana Gowda¹, Jessica Bolton¹, Joanne M. Lumsden¹, Martha Sedegah¹, Noelle B. Patterson¹, Thomas L. Richie³, Robert Gerbasi¹, Emily Smith¹, Keith Limbach¹, Eileen D. Villasante¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²The University of Maryland School of Medicine, Baltimore, MD, United States, ³Sanaria Inc., Rockville, MD, United States

(ACMCIP Abstract)

Symposium 152

Disrupting the Paradigm: Bite Prevention Technologies for Malaria Control and Elimination

Convention Center - Room 318/319/320 (Level 300)

Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

Reducing human-vector contact is a cornerstone of effective vector control and has been achieved with dramatic impact following the scale-up of insecticide treated nets around the globe, protecting humans when they sleep. The next frontier of bite prevention is protecting humans outside of nets in their homes and outdoors. Bite prevention technologies emerging from both military research and industry, motivated by consumer markets, have largely focused on topical repellents, bed nets, spatial repellents, and insecticide treated materials, including clothing and blankets. These technologies have been on the market for decades and continue to be developed and evaluated in "niche" high-risk populations, including military populations, mobile labor markets and refugee camps, among others. While some tools such as topical repellents can be highly effective for personal protection given high compliance from individual users, they have not been found to reduce population-level malaria transmission. Other tools, including nets, spatial repellents and insecticide treated clothing, have had more success in randomized controlled trials in reducing transmission. To achieve the impact required for elimination, however, scalable innovation is needed to address critical gaps in protection. The first presentation will address the questions: How could we engineer the future of bite prevention today? What does an ideal technology look like? Is it possible to have "autonomous" technologies that do not require human compliance? What can we learn from the past? Pooling expertise from industry, social marketing, military, academia and implementing partners could contribute to a new wave of bold ideas. The second talk will address significant research that is underway to explore new technology options, including new chemistries, bite proof clothing and passive emanators. The presentation will also describe the current pipeline and identify gaps for further research and development. The next speaker will focus on these questions: What is the ideal Target Product Profile for bite prevention technologies? How can modeling help us think through the ideal protective efficacy and coverage estimates? Instead of considering bite prevention in a vacuum, how might these tools interact with others to target under-exploited vector behaviors and human-vector interactions? The final talk will address key barriers to achieving impact with bite prevention tools include uptake and accessibility. The speaker will explore concepts around user-center design and consumer-driven marketing to imagine future products driven by the end users. What approaches have been useful in engaging communities and consumers in bite prevention product development? How can the private sector market be leveraged to extend access to at risk populations?

CHAIR

Jimee Hwang

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

Jason H. Richardson

IVCC, Liverpool, United Kingdom

Wednesday
November 8

1:45 p.m.
RETHINKING BITE PREVENTION FOR MALARIA CONTROL AND ELIMINATION

Daniel A. Strickman
Bill & Melinda Gates Foundation, Seattle, WA, United States

2 p.m.
THE BITE PREVENTION TECHNOLOGY PIPELINE: GAPS AND OPPORTUNITIES

Daniel Szumlas
Armed Forces Pest Management Board, Silver Spring, MD, United States

2:15 p.m.
HOW GOOD IS GOOD: PROTECTIVE EFFICACY GOALS OF BITE PREVENTION TOOLS

Sarah Moore
Ifakara Health Institute, Ifakara, United Republic of Tanzania

2:30 p.m.
INNOVATING FROM THE GROUND UP: USER-CENTER DESIGN FOR BITE PREVENTION TECHNOLOGIES

David Eland
SC Johnson & Sons, Racine, WI, United States

Scientific Session 153

Intestinal and Tissue Helminths: Soil-Transmitted Helminths - Biology and Immunology

Convention Center - Room 321/322/323 (Level 300)
Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

CHAIR

Makedonka Mitreva
Washington University School of Medicine, St. Louis, MO, United States
Jill Weatherhead
Baylor College of Medicine, Houston, TX, United States

1:45 p.m. **1918**

HELMINTH INDUCED ALTERATIONS IN T CELL, B CELL, DENDRITIC CELL AND MONOCYTE SUBSETS AND THEIR REVERSAL FOLLOWING TREATMENT

Anuradha Rajamanickam¹, Saravanan Munisankar¹, Yukthi Bhootra¹, Dolla Chandrakumar², Thomas B Nutman³, Subash Babu¹
¹*NIH-ICER-National Institute for Research in Tuberculosis, Chennai, India*,
²*National Institute for Research in Tuberculosis, Chennai, India*,
³*Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland, USA, Chennai, India*

(ACMCIP Abstract)

2 p.m. **1919**

IMMUNOLOGIC IMPACT OF ASCARIASIS ON THE HOST LUNG

Jill Weatherhead¹, Leroy Versteeg¹, John Knight¹, Ana Maria Jaramillo², Amy Coffey¹, Dana Hydel¹, Burton Dickey², Bin Zhan¹, Maria Elena Bottazzi¹, Coreen Beaumier¹, David Corry¹, Peter Hotez¹
¹*Baylor College of Medicine, Houston, TX, United States*,
²*University of Texas M.D. Anderson, Houston, TX, United States*

(ACMCIP Abstract)

2:15 p.m. **1920**

ALLERGIC SENSITIZATION COINCIDENT WITH HELMINTH INFECTION DRIVES A TH2-DOMINATED IMMUNE RESPONSE THAT LIMITS PARASITE BURDEN

Pedro H. Gazzinelli-Guimaraes, Thomas B. Nutman
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

2:30 p.m. **1921**

TAXONOMIC AND FUNCTIONAL MICRO BIOME ASSEMBLAGES IN INDIVIDUALS INFECTED WITH STHS

Makedonka Mitreva¹, Bruce Rosa¹, Taniawati Supali², Lincoln Gankpala³, Erliyani Sartono⁴, Yenny Djuardi², Kerstin Fischer¹, Rahul Tyagi¹, Fatoma Bolay³, Peter Fischer¹, Maria Yazdanbakhsh⁴
¹*Washington University School of Medicine, St. Louis, MO, United States*,
²*Universitas Indonesia, Jakarta, Indonesia*,
³*Liberian Institute for Biomedical Research, Charlesville, Liberia*,
⁴*Leiden University Medical Center, Leiden, Netherlands*

2:45 p.m. **1922**

COMPARISON OF WHOLE GENOME TO 16S SEQUENCING ANALYSIS OF INTESTINAL MICROBIOME IN ARGENTINIAN CHILDREN WITH HELMINTH AND PROTOZOA INFECTIONS

Ashish Damania¹, Rubén Cimino², Alejandro Krolewiecki², Laurie Mazzola³, Joanna Bybee³, Barton Slatko³, Rojelio Mejia¹
¹*Baylor College of Medicine, Houston, TX, United States*,
²*Universidad Nacional de Salta Argentina, Salta, Argentina*,
³*New England BioLabs, Inc., Ipswich, MA, United States*

(ACMCIP Abstract)

3 p.m. **1923**

WHOLE GENOME SEQUENCING OF ASCARIS LUMBRICOIDES WORMS REVEALS CHANGES IN SPACE AND TIME

Alice V. Easton¹, Eric Dahlstrom², Stephen F. Porcella², Rita G. Oliveira³, Jianbin Wang⁴, Shenghan Gao⁴, Richard E. Davis⁴, Sammy M. Njenga⁵, Charles Mwandawiro⁵, Joanne P. Webster⁶, Roy M. Anderson³, Thomas B. Nutman¹
¹*Helminth Immunology Section, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Disease, National Institutes of Health, Bethesda, MD, United States*,
²*Research Technology Branch, Division of Intramural Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rocky Mountain Laboratories, Hamilton, MT, United States*,
³*Department of Infectious Disease Epidemiology, Faculty of Medicine, Imperial College London, London, United Kingdom*,
⁴*Department of Biochemistry and Molecular Genetics, University of Colorado School of Medicine, Aurora, CO, United States*,
⁵*Eastern and Southern Africa Centre of International Parasite Control (ESACIPAC), Kenya Medical Research Institute (KEMRI), Nairobi, Kenya*,
⁶*Department of Pathobiology and Population Science and London Centre for Neglected Tropical Disease Research (LCNTDR), The Royal Veterinary College, Hawkshead Lane, Hatfield, Hertfordshire, United Kingdom*

3:15 p.m. **1924**

THE EFFECT OF SOIL-TRANSMITTED HELMINTHS ON CHILD DEVELOPMENT: IS IT MEDIATED BY ANEMIA?

Brittany Blouin
McGill University, Montreal, QC, Canada

Symposium 154

Emerging Tick-Borne Infections: Entomological and Clinical Aspects

Convention Center - Room 324/325/326 (Level 300)
Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

This symposium aims to integrate recent entomological and clinical information on select emerging tick-borne infections including Powassan virus, borreliosis and rickettsiosis.

CHAIR

Lin H. Chen
Mount Auburn Hospital and Harvard Medical School, Cambridge, MA, United States

Sam R. Telford
Tufts University Cummings School of Veterinary Medicine, North Grafton, MA, United States

1:45 p.m.

TICKS, TICK ECOLOGY AND PREVENTION OF TBD

Sam R. Telford
Tufts University Cummings School of Veterinary Medicine, North Grafton, MA, United States

2:10 p.m.

POWASSAN VIRUS

Erin Staples
Centers for Disease Control and Prevention, Fort Collins, CO, United States

2:35 p.m.

BORRELIOSIS

Bobbi Pritt
Mayo Clinic, Rochester, MN, United States

3 p.m.

RICKETTSIOSIS

Philippe Parola
University Hospital Institute for Infectious Diseases, Marseille, France

Symposium 155

The Dengue Controlled Human Infection Model (CHIM) - A Tool to Deconstruct the Immune Response Toward the Identification of Immune Correlates of Protection

Convention Center - Room 327/328/329 (Level 300)
Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

The four serotypes of dengue virus are a major cause of mosquito-borne viral disease globally. Approximately 40% of the world's population is at risk of dengue infection and all serotypes cause clinical disease. The incidence of dengue is increasing dramatically throughout the world, both in regions with known disease and in new areas where the mosquito vectors have expanded. Dengue infection causes a spectrum of clinical disease from asymptomatic infection to life-threatening hemorrhagic fever. Primary infection leads to lifelong protection from symptomatic infection with the homotypic serotype and short-lived cross-protection from infection with the other serotypes. Severe disease (dengue shock syndrome and/or hemorrhagic fever) may be associated with organ impairment,

plasma leakage and the need for fluid management, and may be fatal in the absence of appropriate medical care. Severe disease occurs most frequently in infants and young children, although all ages are affected. Primary infection with one serotype and insufficiently cross-reactive antibodies to the other serotypes is thought to predispose to more severe disease following a second infection with a serotype that is distinct from the first infection. Safe, tetravalent vaccines which are protective against all four serotypes concurrently are urgently needed since disease-specific therapeutics other than supportive care and fluid management for dengue are not available. A robust immune correlate which predicts protection from disease is necessary to assess candidate dengue vaccines, particularly as they are tested in endemic countries. Although serum neutralizing antibodies have been the gold standard in the past, recent data has questioned the use of this marker and prompted the evaluation of new correlates of protection. Controlled human infection models (CHIM) with dengue have been shown to be safe and reproducible. These models provide ideal platforms upon which immune correlates of protection can be evaluated via deconstruction of the human immune response to dengue infection. This symposium will include new data, tools and methods in the identification of dengue immune correlates of protection.

CHAIR

Beth D. Kirkpatrick
University of Vermont College of Medicine, Burlington, VT, United States

Anna P. Durbin
Johns Hopkins School of Public Health, Center for Immunization Research, Baltimore, MD, United States

1:45 p.m.

USE OF THE NIH DENGUE VACCINE HUMAN CHALLENGE MODEL; THE IMPORTANCE OF NEUTRALIZING ANTIBODY RESPONSES

Anna P. Durbin
Johns Hopkins School of Public Health, Baltimore, MD, United States

2:05 p.m.

MOLECULAR DISSECTION OF THE NEUTRALIZING ANTIBODY RESPONSE AFTER DENV VACCINATION

Aravinda DeSilva
University of North Carolina, Chapel Hill, NC, United States

2:25 p.m.

PLASMA BLAST RESPONSES AND MEMORY B CELL RESPONSES TO DENGUE VACCINATION AND CONTROLLED INFECTION

Sean A. Diehl
University of Vermont College of Medicine, Burlington, VT, United States

2:45 p.m.

EVALUATING THE ROLE OF CD4 AND CD8 ANTIGEN-SPECIFIC RESPONSES AS PART OF A CORRELATE OF PROTECTION FROM DENGUE INFECTION AND DISEASE

Jason Botten
University of Vermont College of Medicine, Burlington, VT, United States

Scientific Session 156

Kinetoplastida: Epidemiology and Diagnosis

Convention Center - Room 331/332 (Level 300)

Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

CHAIR

Shaden Kamhawi

National Institutes of Health, Bethesda, MD, United States

Ester C. Sabino

University of Sao Paulo, São Paulo, Brazil

1:45 p.m.

1925

A CLOUD-BASED EPIDEMIOLOGICAL SURVEILLANCE PLATFORM WITH APPLICATION TO CHAGAS DISEASE VECTOR CONTROL

Jennifer Kate Peterson¹, Sasha Gutfraind², Erica Billig¹, Claudia Arevalo Nieto³, Gian Franco Condori³, Narender Tankasala², Justin Sheen¹, Ricardo Castillo¹, Priyanka Anand¹, Michael Z. Levy¹

¹University of Pennsylvania, Philadelphia, PA, United States, ²University of Illinois at Chicago, Chicago, IL, United States, ³Universidad Cayetano Heredia, Lima, Peru

2 p.m.

1926

MOLECULAR EPIDEMIOLOGY OF CUTANEOUS LEISHMANIASIS AMONG REFUGEES IN NORTH LEBANON

Dima El Safadi¹, Waleed Al-Salem², Alvaro Acosta-Serrano³, Monzer Hamze¹

¹Laboratory of Health and Environmental Microbiology (LMSE), Doctoral School for Sciences and Technology, Faculty of Public Health, Lebanese University, Tripoli, Lebanon, ²Saudi Ministry of Health, Riyadh, Saudi Arabia, ³Department of Parasitology and Department of Vector Biology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

2:15 p.m.

1927

FIELD TRIAL TO ASSESS LEISHMANIASIS VACCINE EFFECTIVENESS AS A POTENTIAL IMMUNOTHERAPY IN ASYMPTOMATIC DOGS

Angela J. Toepp¹, Mandy Larson¹, Tara Grinnage-Pulley¹, Geneva Wilson¹, Carolyne Bennett¹, Adam Lima¹, Michael Anderson¹, Hailie Fowler¹, Bryan Anderson¹, Molly Parrish¹, Kelsey Willardson¹, Germine Alfonse¹, Jane Jefferies², George Seier³, Javan Esfandiari⁴, Caitlin Cotter⁵, Radhika Gharpure⁵, Christine Petersen¹

¹The University of Iowa, Iowa City, IA, United States, ²Noah's Ark Animal Clinic, Kansas City, MO, United States, ³Cobb Ford Pet Health Center, Prattville, AL, United States, ⁴ChemBio Diagnostic Systems, Inc., Medford, NY, United States, ⁵Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

2:30 p.m.

1928

LOCAL DYNAMICS, SPATIAL INTERACTIONS AND DISPERSAL ROUTES OF VISCERAL LEISHMANIASIS IN 45 MUNICIPALITIES OF SAO PAULO STATE, BRAZIL

Elivelton Da Silva Fonseca, Raul Borges Guimarães

São Paulo State University, Presidente Prudente, Brazil

2:45 p.m.

1929

USING DYNAMIC MODE DECOMPOSITION TO PRIORITIZE REGIONAL SCREENING FOR HAT IN THE DEMOCRATIC REPUBLIC OF CONGO

Cody A. Palmer¹, Joshua L. Proctor¹, Matthew Steele², Crispin Lumbala³, Caitlin A. Bever¹

¹Institute For Disease Modeling, Bellevue, WA, United States, ²Bill & Melinda Gates Foundation, Seattle, WA, United States, ³Programme National de Lutte contre la Trypanosomiase Humaine Africain (PNLTHA), Kinshasa, Democratic Republic of the Congo

3 p.m.

1930

USE OF SALIVA FOR LARGE SCALE *TRYPANOSOMA CRUZI* SCREENING

Lea C. Oliveira¹, Carlos H. Moreira¹, Claudia D. Lorenzo², Ana L. Bierrenbach¹, Erika R. Manuli¹, Natália B. Pereira¹, Flavia C. Salles¹, Marcela Souza-Basquera¹, Ester C. Sabino¹

¹Laboratory of Parasitology (LIM46), Institute of Tropical Medicine, University of São Paulo, São Paulo, Brazil, ²Federal University of São João Del Rei, Divinópolis, Brazil

3:15 p.m.

1931

POLICY RECOMMENDATIONS FOR REACHING ELIMINATION OF VISCERAL LEISHMANIASIS ON THE INDIAN SUBCONTINENT: A COMPARISON OF MULTIPLE TRANSMISSION MODELS

Epke A. Le Rutte¹, Lloyd A. Chapman², Luc E. Coffeng¹, Graham F. Medley³, José A. Ruiz Postigo⁴, Deirdre T. Hollingsworth², Sake J. de Vlas¹

¹Erasmus MC, University Medical Center Rotterdam, Rotterdam, Netherlands, ²Warwick University, Warwick, United Kingdom, ³London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁴World Health Organization, Geneva, Switzerland

Symposium 157

Global Elimination of Trachoma: Refocusing the End Game

Convention Center - Room 337/338 (Level 300)

Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

Trachoma is caused by ocular infection with the bacterium *Chlamydia trachomatis*. The World Health Organization recommends a comprehensive approach for trachoma elimination, comprising surgery for trichiasis, antibiotics to treat ocular *C. trachomatis*, and facial cleanliness and environmental improvement to reduce transmission (the SAFE strategy). Since the launch of SAFE in 1993, interventions have been gradually scaled-up, such that they currently cover the majority of countries that still have trachoma as a public health problem. Use of the SAFE strategy has produced notable results, including: 1) diminishing trachoma from being the second leading cause of preventable blindness worldwide to now being the fifth; and 2) sufficient progress towards elimination of trachoma as a public health problem to allow eight countries to claim attainment of elimination prevalence thresholds in each formerly endemic district. By November 2017, there will be 38 months left to achieve the objectives of the Alliance for Global Elimination of Trachoma by 2020. This symposium will focus on recent milestones and lessons learned from the Global Trachoma Mapping Project (GTMP), the largest mapping exercise of its kind in the world, which used population-based surveys to

estimate trachoma prevalence in >1500 suspected endemic districts, enabling planning and scale-up of SAFE in 29 countries. Following completion of the GTMP, its methods and systems for undertaking surveys have been carried over to develop the collaborative, multi-organizational project known as Tropical Data. Tropical Data is an innovative platform that supports ministries of health to conduct, quality-control and quality-assure trachoma prevalence surveys, and allows for integration with surveys for other diseases. As progress is made towards the 2020 targets, many more surveys will be needed to assess impact of SAFE strategy and validate elimination of trachoma. The symposium focuses on lessons learned from the GTMP and how these lessons have been applied to develop and implement Tropical Data. In addition, the session will examine the cost of population-based surveys using unique datasets. These analyses will provide insight into survey cost ranges which may aid efficient planning and budgeting of future work, for trachoma and other diseases. Finally, while trachoma elimination thresholds based on prevalence of clinical signs are well established, there are knowledge gaps as to whether alternative indicators, based on laboratory evidence of current or lifetime chlamydial infection, may be more relevant. This session will present data on approaches that have classically been used for trachoma surveillance, and integration-friendly developmental approaches for post-validation surveillance.

CHAIR

Jeremiah Ngondi

RTI International, Dar es Salaam, United Republic of Tanzania

Aryc W. Mosher

U.S. Agency for International Development, Washington, DC, United States

1:45 p.m.

FROM THE GLOBAL TRACHOMA MAPPING PROJECT TO TROPICAL DATA: REFINING METHODS FOR ASSESSING ELIMINATION OF TRACHOMA

Anthony W. Solomon

World Health Organization, Geneva, Switzerland

2:05 p.m.

HOW MUCH DOES IT COST TO SURVEY TRACHOMA: COST ANALYSIS FROM THE GLOBAL TRACHOMA MAPPING PROJECT

Guillaume A. c. Trotignon

Sightsavers, Haywards Heath, United Kingdom

2:25 p.m.

WHAT IS THE COST OF MONITORING ELIMINATION OF TRACHOMA: PROJECTING COSTS OF TRACHOMA IMPACT AND SURVEILLANCE SURVEYS

Rachel D. Stelmach

RTI International, Washington, DC, United States

2:45 p.m.

METHODS FOR TRACHOMA SURVEILLANCE: LESSONS LEARNED AND POSSIBLE FUTURE APPROACHES

Jeremiah Ngondi

RTI International, Dar es Salaam, United Republic of Tanzania

Symposium 158

Praziquantel Studies in Preschool Children and Mothers with Schistosomiasis: Is the Research Agenda Comprehensive Enough?

Convention Center - Room 339/340 (Level 300)

Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

Schistosomiasis causes both overt and subclinical disease in preschool children and their mothers, and praziquantel (PZQ) is the only available drug to treat it. Evidence is growing on the negative impact of early schistosomiasis on child's health with detectable early fibrotic morbidity by ultrasound and established anemia in children under five years of age. Under current WHO recommendations for schistosomiasis control, these clinical manifestations arising in preschool years remain untreated until the child reaches school, the time when the first round of PZQ will be delivered through preventive chemotherapy (PTC) campaigns. The treatment of pregnant women is also seldom happening despite recent robust evidence demonstrating PZQ safety and efficacy in both vulnerable groups. Alternative PZQ delivery platforms such as individual-level treatment at the health centers is not common practice, unlike the delivery of other deworming drugs such as mebendazole both for preschool children and pregnant women. The ongoing double PZQ treatment gap for preschool children and pregnant women (not included in PTC campaigns and no individual treatment at the health centers) is permissive to the development and progression of schistosomiasis-associated morbidity. Researchers and policymakers agree on a very needed expansion of PZQ treatment to these at-risk groups. However, there is currently a strategic void in how to best achieve this. Some of the difficulties in the pathway to scaling up PZQ include a future drug supply that is bottlenecked, a safe pediatric formulation that is still in development, age-appropriate PZQ dosing that is still under study and cultural barriers to an optimal uptake of pregnancy deworming strategies. This symposium will invite experts in the field of PZQ pharmacology, PZQ treatment in pregnancy and policymaking to provide insight on the current evidence on PZQ safety and efficacy in preschool children and pregnant women and alternative delivery platforms for PZQ delivery. It will also raise the question of areas that are currently understudied such as preschool morbidity and reversibility after treatment and studies integrating PK/PD evidence to inform appropriateness of PZQ dosing. Speakers will be asked to share their suggestion for future research efforts to address the existing PZQ double treatment gap.

CHAIR

Amaya Bustinduy

London School of Hygiene & Tropical Medicine, London, United Kingdom

Jennifer Keiser

Swiss Tropical and Public Health Institute, Basel, Switzerland

1:45 p.m.

DOSE-FINDING STUDIES WITH PRAZIQUANTEL IN SCHISTOSOMA MANSONI AND S. HAEMATOBIIUM INFECTED PRE-SCHOOLERS

Jean T. Coulibally

Swiss Tropical and Public Health Institute, Basel, Switzerland

2 p.m.

PHARMACOKINETIC STUDIES WITH PRAZIQUANTEL IN PRESCHOOLERS AND SCHOOL-AGED CHILDREN

Jennifer Keiser

Swiss Tropical Institute, Basel, Switzerland

2:15 p.m.

LONGITUDINAL PRAZIQUANTEL PK FOLLOW UP STUDY ON YOUNG UGANDAN CHILDREN WITH INTESTINAL SCHISTOSOMIASIS

Grace Macklin

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

2:35 p.m.

PRAZIQUANTEL IN PREGNANCY: SAFETY, EFFICACY AND BARRIERS TO UPTAKE

Jennifer F. Friedman

Brown University, Providence, United States

3 p.m.

WHO POSITION ON PZQ FOR PRESCHOOL CHILDREN AND PREGNANT WOMEN

Amadou G. Garba

World Health Organization, Geneva, Switzerland

Symposium 159

Immigration and Chagas Disease: Barriers to Access to Treatment and New Challenges in the U.S., Europe and Latin America

Convention Center - Room 341/342 (Level 300)

Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

Chagas disease is inextricably linked to both ecological and socioeconomic factors (Briceño-León 2009). Immigration has been a major facet of rapid globalization during the past few decades. Driven by a host of factors including poverty, economic crises, demand for labor in wealthy economies, environmental degradation, war and narcoviolence, millions of Latin Americans have migrated to North America, Europe, Asia and Australia. Because of this dynamic, populations with Chagas disease are now found in non-endemic settings where public health systems are often ill-prepared to offer care. According to estimates, there are over 300,000 Latin American immigrants with Chagas disease in the United States and up to 120,000 in Europe. However, <1% of expected cases in the U.S. and <10% in Europe have been diagnosed, and even fewer have been offered appropriate care and treatment (Manne-Goehler et al. 2016, Basile et al. 2011). In both contexts, a significant number of immigrants with Chagas disease are undocumented. Latin American migrants with Chagas disease face significant challenges to accessing healthcare, including restrictive government policies related to provision of publicly funded healthcare and other public assistance to non-citizens, economic marginalization, language barriers, and social stigma (both as migrants and as potential carriers of a disease associated with poverty). Increasingly, this is being exacerbated by growing anti-immigrant sentiment and policies in host countries. In light of these developments, it is clearer than ever that expanding access to treatment for Chagas disease among immigrant populations will involve not only innovation in the development of new medicines and approaches

to healthcare delivery, but a clear understanding of the social and political contexts which are shaping the healthcare sphere for immigrant populations in unprecedented ways. This symposium will analyze the care and treatment needs and describe access-related research with immigrant populations with Chagas disease in different settings. Questions to be explored include: What is the current socioeconomic profile and state of access to medical services for people with Chagas disease? What steps are needed in the coming years to expand access to treatment of Chagas disease beyond its current low levels and what new threats and opportunities are on the horizon? What innovations will be necessary to overcome barriers to access to care for migrant populations with Chagas disease?

CHAIR

Sheba K. Meymandi

Center of Excellence for Chagas Disease at Olive View-University of California Los Angeles Medical Center, Sylmar, CA, United States

1:45 p.m.

MIGRANTS, INFECTIOUS DISEASES AND THE POLITICAL ECONOMIC LANDSCAPE IN 2017

Peter J. Hotez

Baylor University, Houston, TX, United States

2:05 p.m.

IMMIGRATION AND CHAGAS DISEASE IN EUROPE: NEW CHALLENGES

Joaquim Gascon

Institut de Salut Global de Barcelona, Barcelona, Spain

2:25 p.m.

CHAGAS DISEASE IN THE BOLIVIAN POPULATION OF SÃO PAULO, BRAZIL

Maria A. Shikanai-Yasuda

University of Sao Paulo School of Medicine, Sao Paulo, Brazil

2:45 p.m.

CHAGAS DISEASE IN A TIME OF IMMIGRANT BACKLASH: CHALLENGES FOR EXPANDING ACCESS TO TREATMENT IN LOS ANGELES AND BEYOND

Colin J. Forsyth

Drugs for Neglected Diseases Initiative, New York, NY, United States

Symposium 160

Innovative Approaches to Encourage Broader Public Engagement with Tropical Medicine

Convention Center - Room 343/344 (Level 300)

Wednesday, November 8, 1:45 p.m. - 3:30 p.m.

Translating tropical medicine and hygiene advances into public health impact has always relied heavily on the effective dissemination of scientific information to a broad range of publics, many of whom may have limited or no interest in science. While the technologies behind scientific research are advancing at a seemingly inexorable rate, the importance of communication and engagement with non-specialist audiences remains as important now as it did in the days of the pioneers of our field. If anything, recent events such as the Ebola and Zika epidemics have emphasized the need for high quality and clear information sharing with large numbers of people. As well as this operational need, effective public engagement and science communication

are becoming increasingly important elements in the skillset of scientists and healthcare professionals, and in some cases a requirement for career advancement. Amidst this background of increasing need, there is an upsurge in innovative methods and approaches to science engagement, and rich resources and opportunities available. This symposium will showcase new innovations in public engagement that are particularly relevant to global health and tropical medicine. It will emphasize the importance of dialogue and discussion in public engagement as a vehicle to disseminate knowledge and research findings, and will showcase strategies that invite such dialogue with children, adults, families and communities. Speakers include both researchers and engagement professionals with expertise in the field and who deliver innovative engagement practice. They will discuss new methods to reach large numbers of people, emphasize the importance of engaging with hard-to-reach audiences in both endemic and non-endemic countries, and discuss the ethical issues of engaging with vulnerable populations. The symposium will conclude with an interactive session to gather attitudes, opinions and feedback from attendees. The insights and experiences shared will underscore the rich opportunities that engagement provides for scientists and healthcare professionals to receive information about societal opinions and barriers to scientific information uptake, and inspire new research opportunities.

CHAIR

Julian C. Rayner
Wellcome Trust Sanger Institute, Cambridge, United Kingdom
Lyric Bartholomay
University of Wisconsin, Madison, WI, United States

1:45 p.m. PUBLIC ENGAGEMENT AS AN ESSENTIAL PART OF TROPICAL MEDICINE RESEARCH

Julian C. Rayner
Wellcome Trust Sanger Institute, Cambridge, United Kingdom

1:55 p.m. THE URBAN ECOSYSTEMS PROJECT: TEACHING AND LEARNING MOSQUITO BIOLOGY AND PUBLIC HEALTH WITH YOUNG SCIENTISTS IN HISTORICALLY EXCLUDED COMMUNITIES

Lyric Bartholomay
University of Wisconsin, Madison, WI, United States

2:15 p.m. I'M A SCIENTIST GET ME OUT OF HERE - AUDIENCE-LED PUBLIC ENGAGEMENT IN TROPICAL MEDICINE

Shane McCracken
Gallomanor Communications, Bath, United Kingdom

2:35 p.m. ETHICAL ISSUES IN COMMUNITY ENGAGEMENT WITH VULNERABLE POPULATIONS

Phaik Yeong Cheah
Mahidol-Oxford Tropical Research Unit, Bangkok, Thailand

TropStop Office Hours

Convention Center - Pratt Street West Lobby Foyer (Level 300)
Wednesday, November 8, 3 p.m. – 4 p.m.

Meet 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

Louise Ivers
Center for Global Health, Massachusetts General Hospital, Boston, MA, United States

Gonzalo M. Vazquez-Prokopec
Emory University, Atlanta, GA, United States

Break

Wednesday, November 8, 3:30 p.m. - 4 p.m.

Poster Session C Dismantle

Convention Center - Hall F and G (Level 100)
Wednesday, November 8, 4 p.m. - 5 p.m.

Scientific Session 161

Malaria: Epidemiology - Measuring Changes

Convention Center - Ballroom I (Level 400)
Wednesday, November 8, 4 p.m. - 5:45 p.m.

CHAIR

Simon P. Kigozi
London School of Hygiene & Tropical Medicine, London, United Kingdom

Leanne J. Robinson
Burnet Institute, Melbourne, Australia

4 p.m.

1932

A LONGITUDINAL ASSESSMENT OF GAMETOCYTE PRODUCTION AND INFECTIVITY IN CHRONIC AND ACUTE P. FALCIPARUM INFECTIONS

Aissata Barry¹, Bronner Goncalves², Moussa W. Guelbeogo¹, Alphonse Ouedraogo¹, Issiaka Soulama¹, Issa Nebie¹, Amidou Diarra¹, Kjerstin Lanke³, Mireille Ouedraogo¹, Desire Kargougou¹, Zongo Zoumanaba¹, Chris Drakeley², Alfred B. Tiono¹, Teun Bousema³

¹Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, ²London School of Hygiene & Tropical Medicine, London, United Kingdom, ³Radboudumc, Nijmegen, Netherlands

4:15 p.m.

1933

MALARIA BURDEN THROUGH ROUTINE REPORTING: RELATIONSHIPS BETWEEN INCIDENCE ESTIMATES

Simon P. Kigozi¹, Ruth N. Kigozi², Arthur Mpimbaza³, Asadu Sserwanga³, Joaniter Nankabirwa⁴, Sarah Staedke¹, Moses Kanya⁴, Grant Gorse⁵, Rachel Pullan¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Malaria Consortium, Kampala, Uganda, ³Infectious Disease Research Collaboration, Kampala, Uganda, ⁴College of Health Sciences Makerere University, Kampala, Uganda, ⁵University of California San Francisco, San Francisco, CA, United States

4:30 p.m.

1934

LONGITUDINAL CLINICAL AND MOLECULAR ANALYSIS OF ASYMPTOMATIC MALARIA INFECTION IN MALAWI

Andrea Geri Buchwald¹, Miriam Ismail¹, Courtney Aceto², Alaina Halbach¹, Alick Sixpence³, Mabvuto Chimunya³, Millius Damson³, John D. Sorkin⁴, Karl Seydel⁵, Don Mathanga³, Terrie E. Taylor⁶, Miriam K. Laufer¹

¹Division of Malaria Research, Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ²Stevenson University, Baltimore, MD, United States, ³Malaria Alert Center, University of Malawi College of Medicine, Blantyre, Malawi, ⁴University of Maryland Baltimore and Baltimore Veterans Affairs Medical Center GRECC, Baltimore, MD, United States, ⁵Michigan State University, East Lansing, MI, United States, ⁶Michigan State University College of Osteopathic Medicine, East Lansing, MI, United States

4:45 p.m.

1935

TRACKING MALARIA: PREGNANT WOMEN AS A SENTINEL POPULATION FOR MALARIA SURVEILLANCE

Nina C. Brunner¹, Frank Chacky², Renata Mandike², Ally Mohamed², Christian Lengeler¹, Fabrizio Molteni¹, Manuel W. Hetzel¹

¹Swiss Tropical and Public Health Institute, University of Basel, Basel, Switzerland, ²National Malaria Control Programme, Ministry of Health, Community Development, Gender, Elderly and Children, Dar Es Salaam, United Republic of Tanzania

5 p.m.

1936

COMBINING LONG-LASTING INSECTICIDAL NETS AND INDOOR RESIDUAL SPRAYING FOR MALARIA PREVENTION IN ETHIOPIA: A CLUSTER RANDOMIZED CONTROLLED TRIAL

Eskindir Loha¹, Wakgari Deressa², Taye Gari¹, Meshesha Balkew², Oljira Kenea², Tarekegn Solomon¹, Alemayehu Hailu², Bjarne Robberstad³, Meselech Assegid², Hans J. Overgaard⁴, Bernt Lindtjorn³

¹Hawassa University, Hawassa, Ethiopia, ²Addis Ababa University, Addis Ababa, Ethiopia, ³University of Bergen, Bergen, Norway, ⁴Norwegian University of Life Sciences, Aas, Norway

5:15 p.m.

1937

DEVELOPMENT OF A NOVEL GENOTYPING AND MATHEMATICAL ALGORITHM FOR ESTIMATION OF MULTIPLICITY OF INFECTION OF MALARIA PARASITES

Rebecca M. Mitchell¹, Zhiyong Zhou², Sheila Sergent², Mili Sheth², Vishal Nayak², Mike Frace², Bin Hu², Scott Sammons², Simon Kariuki³, Meghna Desai², Ymir Vigfusson¹, Ya Ping Shi²

¹Emory University, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³KEMRI, Kisumu, Kenya

5:30 p.m.

1938

UNDERSTANDING THE HIGHLY DYNAMIC NATURE OF DECLINING MALARIA TRANSMISSION IN PAPUA NEW GUINEA

Leanne J. Robinson¹, Maria Ome-Kaius², Cristian Koepfli³, Johanna H. Kattenberg⁴, Dulcie Lautu-Ninda⁵, Natalie E. Hofmann⁶, Daniela Rodriguez⁶, Michelle Katusele⁵, John B. Keven⁷, Daisy Mantila⁵, Benishar Kombut⁵, Shadrach Jally⁵, Elisheba Malau⁸, Thomas Obadia⁹, Edward D. Walker⁷, Alyssa Barry¹⁰, Manuel Hetzel⁶, Stephan Karl², Christopher L. King¹¹, Ingrid Felger⁶, Moses Laman⁵, James Kazura¹¹, Ivo Mueller¹²

¹Burnet Institute; PNG Institute of Medical Research; Walter & Eliza Hall Institute, Melbourne, Australia, ²Walter & Eliza Hall Institute & PNG Institute of Medical Research, Melbourne, Australia, ³University of California Irvine, Irvine, CA, United States, ⁴Institute of Tropical Medicine, Antwerp, Belgium, ⁵PNG Institute of Medical Research, Madang, Papua New Guinea, ⁶Swiss Tropical and Public Health Institute, Basel, Switzerland, ⁷Michigan State University, Lansing, MI, United States, ⁸Federation University, Melbourne, Australia, ⁹Institut Pasteur, Paris, France, ¹⁰Walter & Eliza Hall Institute, Melbourne, Australia, ¹¹Case Western Reserve University, Cleveland, OH, United States, ¹²Walter & Eliza Hall Institute & Pasteur Institut, Melbourne, Australia

Symposium 162

Landscape of the Druggable *Plasmodium* Genome

Convention Center - Ballroom II (Level 400)

Wednesday, November 8, 4 p.m. - 5:45 p.m.

Malaria, despite ongoing global health intervention, remains a devastating global problem, infecting hundreds of millions and killing nearly 500,000, mostly children, annually. As drug resistance continues to escalate worldwide, the need to identify antimalarial drugs with novel means of action, as a way to overcome existing resistance, is more critical than ever. This panel will highlight new approaches to identify potential targets for novel antimalarial compounds, which will inform antimalarial compound design for the next 10-20 years. This session will begin with a short introduction of results from *in vitro* evolution studies against more than 50 potential lead compounds. Sequencing of parasites resistant to these compounds has led to the discovery of 10-12 potential new antimalarial targets. In addition, with over 200 sequenced drug-resistant parasite genomes, the sheer scope of this dataset allows for a global view of the genes which either convey generalized drug resistance or represent direct drug targets. These results bring us far closer to identifying the parasite druggable genome and the maximum biological range which exists for medicinal chemistry and compound design. The session will present works on drug development in *Plasmodium falciparum* utilizing genomic and proteomic approaches to understand drug mode of action and resistance mechanisms. Symposium presenters have been using a drug-sensitive yeast strain as a model system to identify targets of antimalarial compounds which are considered irresistible in *Plasmodium*. This session will address research interests that lie in the detection and characterization of proteolytic enzymes that are involved in disease, and describe how a lab uses a mass spectrometry based platform technology to uncover the proteolytic activity differences between healthy cells and parasitic organisms. The session will conclude with a presentation of methods to identify biochemical pathway architectures in the malaria parasite, including a detailed exploration of the interconnectivity between genetic and metabolic variation. This symposium will present approaches for finding new targets for small molecular inhibitors applies to a range of infectious diseases, with *P. falciparum* as a model, and will be of utmost interest to a diverse set of researchers.

CHAIR

Elizabeth A. Winzeler
University of California San Diego, La Jolla, CA, United States

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

4 p.m.

PROLINE HOMEOSTASIS: A NOVEL MEDIATOR OF DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM*

Lola Fagbami
Harvard T. H. Chan School of Public Health, Boston, MA, United States

4:15 p.m.
TARGET IDENTIFICATION OF SMALL ANTIMALARIAL COMPOUNDS USING A DRUG SENSITIVE YEAST MODEL

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

4:30 p.m.
USING SUBSTRATE SPECIFICITY PROFILES TO DESIGN PROTEASE INHIBITORS THAT SELECTIVELY TARGET PARASITIC ORGANISMS

Anthony J. O'Donoghue
University of California San Diego, Skaggs School of Pharmacy and Pharmaceutical Sciences, La Jolla, CA, United States

4:45 p.m.
CHARACTERIZING THE MODE OF ACTION OF NOVEL ANTIMALARIAL DRUGS BY HIGH THROUGHPUT METABOLOMICS

Manuel Llinas
Pennsylvania State University, University Park, PA, United States

Symposium 163

The Burden and Control of falciparum and vivax Malaria in Pregnancy in Asia

Convention Center - Ballroom III (Level 400)
Wednesday, November 8, 4 p.m. - 5:45 p.m.

Recent estimates indicate that the number of pregnancies at risk of malaria in areas of low malaria transmission greatly exceed the number of pregnancies occurring in areas with stable *P. falciparum* malaria in sub-Saharan Africa. Yet, relatively little is known about the burden of malaria in pregnancy in endemic areas outside of Africa, where infection rates are much lower but they are more likely to cause symptomatic and severe disease, preterm births, and fetal loss. There are currently no formal guidelines for the control of malaria in pregnancy for Asia, where control in pregnant women relies mainly on case management. The symposium will present the results of recently completed burden studies of the impact of *P. falciparum* and *P. vivax* malaria in pregnancy and of trials on the treatment and prevention of malaria in pregnancy in India, Indonesia and the Thai-Myanmar border.

CHAIR

Jenny Hill
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Feiko ter Kuile
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

4 p.m.
THE ASSOCIATION BETWEEN VIVAX AND FALCIPARUM MALARIA IN PREGNANCY IN A LOW TRANSMISSION AREA ON ADVERSE PREGNANCY OUTCOMES (MISCARRIAGE, PRETERM BIRTH, SMALL FOR GESTATION AND NEONATAL DEATH) INCLUDING A SYSTEMATIC REVIEW AND META-ANALYSIS OF STILLBIRTH

Kerryn Moore
Burnet Institute, Melbourne, Australia

4:20 p.m.
RANDOMIZED TRIAL OF 3 ARTEMISININ COMBINATION THERAPIES (MEFLOQUINE-ARTESUNATE, DIHYDROARTEMISININ-PIPERAQUINE, COARTEMETHER) FOR TREATMENT OF *P. FALCIPARUM* AND *P. VIVAX* MALARIA IN PREGNANCY ON THE THAILAND-MYANMAR BORDER

Rose McGready
Oxford University, Oxford, United Kingdom

4:40 p.m.
RCT ON THE EFFICACY AND SAFETY OF INTERMITTENT SCREENING AND TREATMENT (IST) WITH AS+SP VERSUS PASSIVE CASE DETECTION IN INDIA

Daniel Chandramohan
London School of Hygiene & Tropical Medicine, London, United Kingdom

5 p.m.
INTERMITTENT SCREENING AND TREATMENT OR INTERMITTENT PREVENTIVE THERAPY WITH DP VERSUS SINGLE SCREENING AND TREATMENT FOR THE CONTROL OF MALARIA IN PREGNANCY IN INDONESIA (STOPMIP-INDONESIA): AN OPEN LABEL CLUSTER-RANDOMIZED CONTROLLED SUPERIORITY TRIAL

Feiko ter Kuile
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 164

Challenges in Medical Humanitarian Settings – Experiences from MSF, ALIMA and Doctors for Global Health

Convention Center - Ballroom IV (Level 400)
Wednesday, November 8, 4 p.m. - 5:45 p.m.

This symposium will look at challenges in diagnosis, implementation of programs and access to quality treatment found in humanitarian settings presenting various examples of the experience of medical humanitarian NGOs such as Médecins Sans Frontières in different countries. The topics will range from the complex interactions of infectious diarrhea and severe acute malnutrition, the challenges of managing of outbreaks in refugee camp settings, and difficulties of chasing the last cases of a devastating disease such as Human African Trypanosomiasis amidst violent conflict to eliminate transmission. The session will conclude with a panel discussion.

CHAIR

Estrella Lasry
Medecins Sans Frontieres, Barcelona, Spain

Bhargavi Rao
Medecins Sans Frontieres, London, United Kingdom

4 p.m.
ELIMINATION IN WAR: HAT IN CAR

Carolina Jimenez
Medecins Sans Frontieres, Barcelona, Spain

4:15 p.m.
DIARRHEA AMIDST SEVERE MALNUTRITION: DRIVERS AND DIAGNOSTICS

Bruno Akpakpo
ALIMA (Alliance for International Medical Action), Chad

4:30 p.m.
**CHALLENGES AND OPPORTUNITIES IN TRAINING
COMMUNITY HEALTH PROMOTERS AND ESTABLISHING
BASIC HEALTH SERVICES**

Lanny Smith
Doctors for Global Health, Decatur, GA, United States

4:45 p.m.
**OPERATION YELLOW MAMA - A HEPATITIS E OUTBREAK IN
A REFUGEE CAMP**

Philipp Du Cros
Medecins Sans Frontieres, London, United Kingdom

Symposium 165

Lassa Fever: A New Look at an Old Disease

Convention Center - Room 318/319/320 (Level 300)
Wednesday, November 8, 4 p.m. - 5:45 p.m.

Lassa virus (LASV), a member of the *Arenaviridae* family, is the etiologic agent of Lassa fever (LF), an acute and frequently fatal illness endemic to West Africa. LASV is a category A select agent. The natural reservoir for LF is the multi-mammate rat (*Mastomys natalensis*), which is found in abundance throughout sub-Saharan Africa. Approximately 300,000 to 500,000 LF infections occur each year. Humans are believed to acquire infection via exposure to the excreta from this rat species. LF has an insidious onset often presenting with fever, severe sore throat, headache, conjunctivitis, head and neck edema and abdominal pain. Civil war halted studies of this disease in the 1990s. Over the past decade, new research efforts have increased our knowledge of LF. However, major questions about transmission, risk factors and disease pathophysiology still remain. In addition to being a significant public health problem, LF, as an endemic disease, could serve as a model for the treatment of epidemic VHF. New advances in genetics, diagnostics and our understanding of the underlying pathophysiology have the potential to pave the way for new therapeutic modalities for this disease and other VHFs.

CHAIR

John S. Schieffelin
Tulane University, New Orleans, LA, United States

Daniel Bausch
*Public Health Rapid Support Team-UK PHIRST Public Health England/London
School of Hygiene & Tropical Medicine, London, United Kingdom*

4 p.m.
**REVISITING ASSOCIATIONS BETWEEN THE CLINICAL
PRESENTATION OF LASSA FEVER AND HOSPITAL
OUTCOMES**

Donald Grant
Lassa Fever Program, Kenema Government Hospital, Kenema, Sierra Leone

4:25 p.m.
**NEW INSIGHTS INTO THE PATHOPHYSIOLOGY OF LASSA
FEVER**

John Schieffelin
Tulane University, New Orleans, LA, United States

4:50 p.m.
**UNCOVERING HUMAN GENETIC DETERMINANTS OF LASSA
FEVER SUSCEPTIBILITY**

Kayla Barnes
The Broad Institute, Cambridge, MA, United States

5:15 p.m.
**THE EPIDEMIOLOGY AND EPIZOOLOGY OF LASSA FEVER:
WHAT WE KNOW AND WHAT WE THINK WE KNOW**

Daniel G. Bausch
*Public Health Rapid Support Team-UK PHIRST Public Health England/London
School of Hygiene & Tropical Medicine, London, United Kingdom*

Symposium 166

Neurocysticercosis: IDSA/ASTMH Guidelines and Beyond

Convention Center - Room 324/325/326 (Level 300)
Wednesday, November 8, 4 p.m. - 5:45 p.m.

Neurocysticercosis (NCC) is a potentially fatal, but preventable, neglected parasitic infection caused by the larval form of *Taenia solium*. Patients with symptomatic disease usually have signs and symptoms, which commonly manifest as seizures or increased intracranial pressure. Since there are many persons living in the United States who emigrated from highly disease-endemic countries, clinicians are often faced with managing this disease in their practices. Despite advances in the diagnosis and management of neurocysticercosis, there remain many unanswered questions. IDSA/ASTMH guidelines for NCC have been developed and will be discussed during the symposium.

CHAIR

Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

A. Clinton White
University of Texas Medical Branch at Galveston, Galveston, TX, United States

4 p.m.
IDSA GUIDELINES: CASE-BASED DISCUSSION

A. Clinton White
University of Texas Medical Branch, Galveston, TX, United States

4:20 p.m.
**ALBENDAZOLE PLUS PRAZIQUANTEL FOR NCC: NOW AND
MOVING FORWARD**

Hugo Garcia
Universidad Peruana Cayetano Heredia, Lima, Peru

4:40 p.m.
HIPPOCAMPAL ATROPHY SECONDARY TO NCC

Oscar H. Del Brutto
Universidad Espiritu Santo, Guayaquil, Ecuador

5 p.m.
**SUBARACHNOID NCC: COMPLICATIONS AND
MANAGEMENT**

Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

5:20 p.m.
ANTIGEN USE AND REVIEW OF THE NIH EXPERIENCE

Theodore E. Nash
National Institute of Health, Bethesda, MD, United States

Symposium 167

Building Clinical Trial Capacities in Africa Through North-South Networking and Public-Private Partnership: Final Outcome of the West African Network for Clinical Trials of Antimalarial Drugs (WANECAM)

Convention Center - Room 327/328/329 (Level 300)

Wednesday, November 8, 4 p.m. - 5:45 p.m.

Malaria remains a major public health challenge in many sub-Saharan African countries, including the Sahel belt of West Africa. New and better artemisinin-based combination therapies (ACT) are required to sustain the progress toward malaria elimination. This symposium will present the final results and achievements, challenges and lessons learned from the West African Network for Clinical Trials on Anti-Malarial drugs, an African-led project funded by European and Developing Countries Clinical Trials Partnership (EDCTP) and Medicines for Malaria Venture (MMV). The project was designed to assess the long term safety and efficacy of the Artemisinin-based Combination Therapies (ACTs), including artesunate-pyronaridine (AP), dihydroartemisinin-piperazine (DHA-PQP) and comparators i.e. artemether-lumefantrine (AL) or artesunate-amodiaquine (ASAQ). The trial, which started in 2011 and completed in 2016 is one of the largest ACT longitudinal studies with repeated treatment with the same ACT over two years after randomization. In three West Africa countries (Burkina Faso, Guinea and Mali) the 4,710 patients randomized experienced 7,279 uncomplicated malaria episodes for a total of 11,989 malaria episodes followed up during the two-year observation period. The main findings of the study are being submitted for publication, which will be timed to coincide with the presentation of this symposium. In addition to the primary outcomes of the study, exploratory investigations have provided valuable data that will be presented. Issues related to human capacity building, infrastructure creation/enhancement, South-South, North-South and North-North networking, GCP, ethics and regulatory will be presented. An example of capacity building where a team started from one scientist to grow into a vibrant research team capable of GCP compliant clinical trial in just a few months will also be presented.

CHAIR

Abdoulaye Djimde
University of Science, Techniques and Technologies of Bamako, Bamako, Mali

Stephan Duparc
MMV, Geneva, Switzerland

4 p.m.

REPEATED TREATMENT OF UNCOMPLICATED MALARIA IN WEST AFRICA WITH PYRONARIDINE-ARTESUNATE OR DIHYDROARTEMISININ-PIPERAZINE: EFFICACY RESULTS OF A RANDOMIZED CONTROLLED TRIAL VERSUS FIRST-LINE THERAPY

Issaka Sagara
University of Science, Techniques and Technologies of Bamako, Bamako, Mali

4:15 p.m.

REPEATED TREATMENT OF UNCOMPLICATED MALARIA IN WEST AFRICA WITH PYRONARIDINE-ARTESUNATE OR DIHYDROARTEMISININ-PIPERAZINE: EFFICACY RESULTS OF A RANDOMIZED CONTROLLED TRIAL VERSUS FIRST-LINE THERAPY

Aminatou Kone
University of Science, Techniques and Technologies of Bamako, Bamako, Mali

4:30 p.m.

A GENETIC BASIS FOR THE RISK OF PIPERAQUINE-DRIVEN QTC PROLONGATION - A POTENTIAL BASIS FOR FUTURE PERSONALIZED ACT

Jose Pedro Gil
Karolinska Institutet, Stockholm, Sweden

4:45 p.m.

PHARMACOKINETIC-PHARMACODYNAMIC INTERACTIONS IN PATIENTS TREATED WITH ARTEMETHER-LUMEFANTRINE OR ARTESUNATE-AMODIAQUINE FOR REPEATED P. FALCIPARUM MALARIA EPISODES

Steffen Borrmann
University of Tubingen, Tubingen, Germany

5 p.m.

RESEARCH CAPACITY DEVELOPMENT IN REPUBLIC OF GUINEA CONAKRY

Abdoul H. Beavogui
Centre National de Recherche Maferenya, Conakry, Guinea

Symposium 168

Operationalizing One Health: One Health Tools in the Context of Global Health Security

Convention Center - Room 331/332 (Level 300)

Wednesday, November 8, 4 p.m. - 5:45 p.m.

Multisectoral collaboration is key for operationalizing the One Health concept. This symposium highlights a few key tools that have been used to assist countries and regions with multisectoral collaboration, disease prioritization, process mapping and gap analysis.

CHAIR

Casey Barton Behravesh
Centers for Disease Control and Prevention, Atlanta, GA, United States

Tracey Dutcher
United States Department of Agriculture, St. Paul, MN, United States

4 p.m.

CDC ONE HEALTH ZONOTIC DISEASE PRIORITIZATION TOOL

Stephanie Salyer
Centers for Disease Control and Prevention, Atlanta, GA, United States

4:15 p.m.

OVERVIEW OF IHR PVS TOOL

Enrique Perez
Pan American Health Organization, Washington, DC, United States

4:30 p.m.

MAKING ONE HEALTH OPERATIONAL: IMPROVING INTERAGENCY COLLABORATION THROUGH ONE HEALTH SYSTEMS MAPPING AND ANALYSIS

Katey Pelican

University of Minnesota, St. Paul, MN, United States

4:45 p.m.

THE RABIES BLUEPRINT AND STEP-WISE APPROACH TO RABIES ELIMINATION

Louis H Nel

University of Pretoria and Global Alliance for Rabies Control, Pretoria, South Africa

Symposium 169

Understanding the Factors That Motivate and Sustain Community Drug Distributors (CDD) in the Changing Context of Neglected Tropical Disease (NTD) Control and Elimination

Convention Center - Room 337/338 (Level 300)

Wednesday, November 8, 4 p.m. - 5:45 p.m.

The contribution of CDDs to the success of Mass Drug Administration (MDA) for Preventive Chemotherapy Neglected Tropical Diseases (PC-NTD) to date cannot be overemphasized. Through their efforts, millions of tablets have been distributed to endemic populations to such an extent that some communities have been freed of one or more of the five PC-NTDs. In recent times, NTD program managers have faced implementation challenges with the use of volunteers for MDA programs. This was expressed during a brainstorming session held with African program managers in Ghana (2015) and during the Program Managers session at the 2014 Coalition for Operations Research on Neglected Tropical Diseases (COR-NTD) meeting. These meetings recognized the following important factors: changes in the socio-cultural, economic and programmatic landscape, the paradigm shift from single disease focused programs to integrated programs, the shift from a community directed approach to a more nationally driven format, an increase in the number of partners involved in NTD elimination programs and an increasing reliance on CHWs (and CDDs). The use of the CDD has increased, while their job prospects, financial incentives or training appears not to have improved at the same rate. All these appear to have affected the motivation of the CDDs and may have contributed to a sub-optimal impact of some national NTD programs. It is known that less than optimal CDD performance and systemic losses of volunteers due to high attrition risks may negatively impact the program and if not addressed, can affect the 2020 goals. In view of the above challenges, there is an urgent need to address the issue of incentives and motivation of CDDs involved in the provision of MDA. As countries move towards the realization of the 2020 goals, maintaining and maximizing the current CDD workforce becomes of paramount importance since MDAs have become the mainstay of NTD programs globally. In view of this, recent mixed methods research explored how the function of the health system, programmatic changes and the changing sociocultural landscape affect CDD performance and motivation. Specifically, the symposium will discuss which incentives have been shown

to be most acceptable to CDDs, describe how the introduction of new NTD programmatic activities affects current motivation and CDD performance, present the opportunity costs and out of pocket costs CDDs incur during their participation in NTD program activities as well as share a collection of stories from CDDs working in Ivory Coast, Uganda and Indonesia. The symposium organizers are confident that these research results will contribute towards a realization of improved motivation of CDDs in the delivery of the current NTD regimens as well as with new treatment options.

CHAIR

Margaret Gyapong

Centre for Health Policy and Implementation Research, Institute for Health Research, University of Health and Allied Sciences, Ho, Ghana

Mary Amuyunzu Nyamongo

African Institute for Health and Development, Nairobi, Kenya

4 p.m.

WHICH INCENTIVES ARE MOST ACCEPTABLE TO CDD'S WORKING FOR THE NTD PROGRAM IN IVORY COAST?

Adam Mama Djima

Ministry of Health, National Programme against Schistosomiasis, STH and Lymphatic Filariasis, Abidjan, Côte D'Ivoire

4:20 p.m.

THE IMPACT OF COMMUNITY SUPPORT ON CDD PERFORMANCE IN UGANDA

Edridah Muheki Tukahebwa

National NTD Control Programme, Kampala, Uganda

4:40 p.m.

OPPORTUNITY AND OUT OF POCKET COSTS INCURRED BY CDD DURING MDA IN AFRICA

Deborah A. McFarland

Emory University, Rollins School of Public Health, Atlanta, GA, United States

5 p.m.

STORIES FROM THE FIELD: WHAT WE CAN LEARN FROM CDDs WORKING IN UGANDA, COTE D'IVOIRE AND INDONESIA

Alison Krentel

Bruyere Research Institute, Ottawa, Canada

Symposium 170

The WASH Benefits Study: The Effect of Single and Combined Water, Sanitation, Handwashing and Nutrition Interventions on Environmental Contamination, Parasite Infection, Environmental Enteric Dysfunction and Child Development

Convention Center - Room 339/340 (Level 300)

Wednesday, November 8, 4 p.m. - 5:45 p.m.

Infection and inadequate diet are 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 infection and mortality risk, and potentially delays cognitive development. There is limited high-quality evidence to determine whether water quality, sanitation, and handwashing (WASH) interventions can prevent parasite infection, environmental enteric dysfunction, or cognitive development delays in young children and whether nutritional

interventions could be enhanced if provided concurrently with WASH interventions. There is also limited evidence about whether combined WASH interventions reduce these outcomes more than single 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: Water - chlorine water treatment supplies in both countries and a safe storage vessel in Bangladesh; Sanitation - child potties, scoops to remove feces from household environments, latrine upgrades; Handwashing - handwashing stations including soap; 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. Intervention participants were visited by community health promoters to encourage intervention uptake. 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 1 and 2 years after intervention delivery. Secondary outcomes included markers of environmental enteric dysfunction, soil-transmitted helminth and protozoan infection, and child development scores (verbal, motor and personal/social). The trial also measured the effect of interventions on fecal contamination of water, hands, food and sentinel toys. The symposium will include the impact of the interventions on measures of environmental contamination and secondary outcomes from Bangladesh and Kenya. These presentations will provide insights into the separate and integrated roles of WASH and nutrition interventions in promoting health and development in early life.

CHAIR

John M. Colford
University of California Berkeley, Berkeley, CA, United States

**4 p.m.
 OVERVIEW OF THE STUDY**

John M. Colford
University of California Berkeley, Berkeley, CA, United States

**4:05 p.m.
 EFFECT OF INTERVENTIONS ON ENVIRONMENTAL CONTAMINATION IN BANGLADESH**

Ayşe Ercumen
University of California Berkeley, Berkeley, CA, United States

**4:15 p.m.
 EFFECT OF INTERVENTIONS ON ENVIRONMENTAL CONTAMINATION IN KENYA**

Amy J. Pickering
Tufts University, Medford, MA, United States

**4:25 p.m.
 EFFECT OF INTERVENTIONS ON SOIL-TRANSMITTED HELMINTH IN BANGLADESH**

Ayşe Ercumen
University of California Berkeley, Berkeley, CA, United States

**4:35 p.m.
 EFFECT OF INTERVENTIONS ON PROTOZOAN INFECTION IN BANGLADESH**

Audrie Lin
University of California, Berkeley, Berkeley, CA, United States

**4:45 p.m.
 EFFECT OF INTERVENTIONS ON SOIL-TRANSMITTED HELMINTH AND PROTOZOAN INFECTION IN KENYA**

Amy J. Pickering
Stanford University, San Francisco, CA, United States

**4:55 p.m.
 EFFECT OF INTERVENTIONS ON ENVIRONMENTAL ENTERIC DYSFUNCTION IN BANGLADESH AND KENYA**

Audrie Lin
University of California Berkeley, Berkeley, CA, United States

**5:05 p.m.
 EFFECT OF INTERVENTIONS ON CHILD DEVELOPMENT IN BANGLADESH**

Stephen P. Luby
Stanford University, Stanford, CA, United States

**5:15 p.m.
 EFFECT OF INTERVENTIONS ON CHILD DEVELOPMENT IN KENYA**

Clair Null
Emory University, Rollins School of Public Health, Atlanta, GA, United States

Symposium 171

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

Convention Center - Room 341/342 (Level 300)
 Wednesday, November 8, 4 p.m. – 5:45 p.m.

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

**Wednesday
 November 8**

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).

CHAIR

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

4 p.m.

GLOBAL HEALTH FUNDING: WHAT A DIFFERENCE ADVOCACY MAKES

Jodie Curtis
The District Policy Group, Washington, DC, United States

4:25 p.m.

ADVOCATING FOR GLOBAL HEALTH R&D POLICIES: PRACTICAL TIPS FOR HOW TO TALK TO POLICYMAKERS

Jodie Curtis
The District Policy Group, Washington, DC, United States

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

5 p.m.

WARNING: FAILURE TO BE AN ADVOCATE CAN BE HAZARDOUS TO YOUR RESEARCH CAREER

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

5:25 p.m.

SCIENTISTS ON THE FRONT LINES: THE IMPORTANCE OF ADVOCACY

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

Scientific Session 172

Bacteriology: Cholera

Convention Center - Room 343/344 (Level 300)
Wednesday, November 8, 4 p.m. - 5:45 p.m.

CHAIR

Richelle Charles
Massachusetts General Hospital, Boston, MA, United States

Christine M. George
Johns Hopkins University, Baltimore, MD, United States

4 p.m.

1939

GENETIC RELATEDNESS OF *VIBRIO CHOLERA* ISOLATES WITHIN AND BETWEEN HOUSEHOLDS DURING OUTBREAKS IN DHAKA, BANGLADESH

Christine Marie George¹, Mahamud Rashid², Mathieu Almeida³, K.M. Saif-Ur-Rahman², Shirajum Monira², Md. Sazzadul Islam Bhuyian², Khaled Hasan¹, Toslim Mahmud², Shan Li⁴, Jessica Brubaker¹, Zillur Rahman², Munshi Mustafiz², David Sack¹, Bradley Sack¹, Munirul Alam², O. Colin Stine⁴
¹Johns Hopkins University, Baltimore, MD, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³University of Maryland, Baltimore, MD, United States, ⁴University of Maryland School of Medicine, Baltimore, MD, United States

4:15 p.m.

1940

IL-23 EXPRESSION DISTINGUISHES MUCOSAL IMMUNE RESPONSES TO LIVE COMPARED TO KILLED *VIBRIO CHOLERA*

Ana A. Weil¹, Crystal N. Ellis¹, Taufiqur R. Bhuiyan², Rasheduzzaman Rashu², Daniel L. Bourque¹, Ashraf I. Khan², Fahima Chowdhury², Regina C. LaRocque¹, Edward T. Ryan¹, Stephen B. Calderwood¹, Firdausi Qadri², Jason B. Harris¹
¹Massachusetts General Hospital, Boston, MA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

4:30 p.m.

1941

DEVELOPMENT OF A NEW DIPSTICK FOR RAPID DETECTION OF *VIBRIO CHOLERA* O1 IN ACUTE WATERY DIARRHEAL STOOLS

Md. Abu Sayeed¹, Jakia Amin², Kamrul Islam¹, Motaher Hossain¹, Nishat Sultana², Noor Jahan Akter², Farhana Khanam¹, Jason R. Andrews³, Edward T. Ryan⁴, Firdausi Qadri¹
¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Incepta Pharmaceuticals Ltd, Savar, Dhaka, Bangladesh, ³Stanford University School of Medicine, Stanford, California, CA, United States, ⁴Massachusetts General Hospital, Boston, MA, United States

4:45 p.m.

1942

BIVALENT ORAL CHOLERA VACCINE INDUCES MEMORY B CELL RESPONSES

Brie W. Falkard¹, Richelle C. Charles¹, Leslie M. Mayo-Smith¹, Wilfredo R. Matias², Jessica E. Teng³, Peng Xu⁴, Pavol Ková ⁴, Edward T. Ryan¹, Molly F. Franke⁵, Louise C. Ivers³, Jason B. Harris¹
¹Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, ²Harvard Medical School, Boston, MA, United States, ³Division of Global Health Equity, Brigham and Women's Hospital, Boston, MA, United States, ⁴National Institute of Diabetes and Digestive and Kidney Diseases, LBC, National Institutes of Health, Bethesda, MD, United States, ⁵Department of Global Health and Social Medicine, Harvard Medical School, Boston, MA, United States

5 p.m.

1943

IMMUNE RESPONSES AGAINST O-SPECIFIC POLYSACCHARIDE (OSP) DEVELOP AFTER VACCINATION WITH ORAL CHOLERA VACCINE CVD 103-HGR (VAXCHORA) AND THESE RESPONSES ARE ASSOCIATED WITH PROTECTION AGAINST EXPERIMENTAL INFECTION WITH *VIBRIO CHOLERA* O1 EL TOR INABA IN NORTH AMERICAN VOLUNTEERS

Kamrul Islam¹, Meagan Kelly², Leslie Mayo Smith², Richelle Charles², Taufiqur R. Bhuiyan¹, Pavol Ková ³, Peng Xu³, Regina LaRocque², Stephen Calderwood², J. K. Simon⁴, W. H. Chen⁵, D. Haney⁶, M. Lock⁶, C. E. Lyon⁷, B. D. Kirkpatrick⁷, M. Cohen⁸, M. M. Levine⁸, M. Gurwith⁸, Jason B. Harris², Firdausi Qadri¹, Edward T. Ryan²
¹International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Massachusetts General Hospital, Boston, MA, United States, ³National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD, United States, ⁴Merck & Co., Inc., Kenilworth, NJ, United States, ⁵Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD, United States, ⁶PaxVax, Inc., Redwood City, CA, United States, ⁷University of Vermont College of Medicine, Burlington, VT, United States, ⁸Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States

5:15 p.m.

1944

EPIDEMIC CHOLERA AND MICRONUTRIENT DEFICIENCY — GRANDE SALINE, HAITI, 2011

Sae-Rom Chae¹, Jacques Boncy², Gerard A. Joseph², Parminder S. Suchdev¹, Sunkyoung Kim¹, Eric D. Mintz¹, Brendan R. Jackson¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Laboratoire National de Santé Publique, Port-au-Prince, Haiti

5:30 p.m.

1945

WHO IS AT RISK OF CHOLERA IN AFRICA? QUANTIFYING POTENTIAL VACCINE DEMAND AND IMPACT POLICY-RELEVANT SPATIAL LEVELS

Sean M. Moore¹, Andrew S. Azman², Heather S. McKay², Justin Lessler²

¹University of Notre Dame, Notre Dame, IN, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Special Session 173

Moving back Home: Strategies for Returning back to LMICs after Training Abroad

Hilton - Peale C (East Building, First Floor)

Wednesday, November 8, 4 p.m. - 5 p.m.

An informal networking and strategy meeting tailored towards students and early career professionals working in medicine, research and other scientific endeavors. This session will discuss the particular needs of those from low- and middle-income countries who have trained abroad in technologically-advanced countries and want to plan for a move back to their home countries. Ideally suited to participants from sub-Saharan and North Africa, Latin America and relevant Asian countries. Effective strategies for planning a return trip home will be discussed. Participants are expected to help move the discussion along as this is an opportunity to share and learn from one another.

CHAIR

Johanna Daily

Albert Einstein College of Medicine, Bronx, NY, United States

Abiola Fasina

Henry M. Jackson Foundation/MHRP, Washington, DC, United States

Plenary Session 174

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

Convention Center - Ballroom III (Level 400)

Wednesday, November 8, 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

Martin S. Cetron

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

6:30 p.m.

MIGRATION MEDICINE: NOTES ON A YOUNG SCIENCE



Patricia F. Walker, MD, DTM&H, FASTMH

Professor of Medicine, University of Minnesota

Medical Director, HealthPartners Travel and Tropical Medicine Center

Staff Physician, HealthPartners Center for International Health

Associate Medical Director, Global Health Pathway, University of Minnesota

St. Paul, MN, United States

Dr. Patricia Walker is an internist specializing in refugee and immigrant health, and clinical tropical and travel medicine. She is a Professor of Medicine at the University of Minnesota, and from 1988-2011, served as the Medical Director at HealthPartners Center for International Health, a nationally known refugee and immigrant health clinic. She continues to practice medicine and teach resident physicians at the Center. She attended Mayo Medical School and Mayo Graduate School of Medicine, where she received a Graduate Travel Award for Outstanding Achievement in Internal Medicine. In addition to other awards, in 2004 she was honored as one of the Top 100 Influential Health Care Leaders in Minnesota. She received a Distinguished Alumnus in Medicine award from Gustavus Adolphus College in 2010. From 2002 through 2004, she chaired the State of Minnesota Immigrant Health Task Force, a statewide group of 70 experts who developed best practices in care for refugees and immigrants in Minnesota. These best practices are being shared nationally and internationally. Dr. Walker has published multiple articles and book chapters on refugee and immigrant health, and co-edited a medical textbook published in October 2007, "Immigrant Medicine", the first of its kind. She serves as the Associate Medical Director of the Global Health Pathway at the University of Minnesota. Her research focuses on best practices in refugee and immigrant health, and she serves as HealthPartners Principle Investigator for the CDC's Refugee Centers of Excellence. Her work was profiled in the Lancet in February, 2017. Dr. Walker received her Diploma in Tropical Medicine and Hygiene from the London School of Hygiene & Tropical Medicine in 1997, and further studied clinical tropical medicine as part of a Bush Medical Leadership Fellowship at Chiang Mai University in Thailand. She received her Certificate in Tropical Medicine and Travelers' Health from the American Society of Tropical Medicine and Hygiene, and a Certificate of Knowledge in Clinical Tropical Medicine from the International Society of Travel Medicine. She speaks Thai and Cambodian, and enjoys teaching tropical medicine, learning from people all over the world and international travel. Dr. Walker is a Fellow in the American Society of Tropical Medicine and Hygiene and is current President of the Society.

7 p.m.
ANNUAL BUSINESS MEETING

Open to all Attendees

David R. Hill
Quinnipiac University, Hamden, CT, United States

Karen A. Goraleski
American Society of Tropical Medicine and Hygiene, Oakbrook Terrace, IL, United States

Thursday, November 9

Registration

Convention Center - Pratt Street West Lobby (Level 300)
Thursday, November 9, 7 a.m. - 10:30 a.m.

Speaker Ready Room

Convention Center - Room 336 (Level 300)
Thursday, November 9, 7 a.m. - 10:30 a.m.

Meeting Sign-Up Room

Hilton – Stone Room and Chase Room (West Building, Third Floor)
Thursday, November 9, 7 a.m. – Noon

ASTMH Council Meeting

Hilton - Holiday Ballroom 6 (East Building, Second Floor)
Thursday, November 9, 7:30 a.m. - 9:30 a.m.

Scientific Session 175

Malaria: Mosquito Transmission and Interruption

Convention Center - Ballroom II (Level 400)
Thursday, November 9, 8 a.m. - 9:45 a.m.

CHAIR

Jennifer Stevenson
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Guofa Zhou
University of California Irvine, Irvine, CA, United States

8 a.m. **1946**

MALARIA TRANSMISSION AT THREE SENTINEL SITES IN WESTERN KENYA FROM 2002 TO 2016: THE RESURGENCE AND CAUSALITY ANALYSIS

Guofa Zhou¹, Guiyun Yan¹, Andrew K. Githeko², Harrysone E. Atieli²
¹University of California Irvine, Irvine, CA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya

8:15 a.m. **1947**

HIGH PLASMODIUM FALCIPARUM OOCYST LOADS IN NATURALLY INFECTED MOSQUITOES IN AFRICA

Anais Bompard¹, Dari F. Da², Serge Yerbanga², Isabelle Morlais¹, Thierry Lefèvre¹, Thomas S. Churcher³, Anna Cohuet¹
¹Institut de Recherche pour le Développement, Montpellier, France, ²Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, ³MRC Centre for Outbreak Analysis and Modelling, Infectious Disease Epidemiology, Imperial College, London, United Kingdom

8:30 a.m. **1948**

IMPACT OF PYRETHROID EXPOSURE ON RESISTANT MOSQUITO FITNESS

Alida Kropf¹, Behi Kouadio Fodjo², Marius Zoh Gonze², Bassirou Bonfoh², Chouaibou Mouhamadou²
¹MIE, Bouake, Côte D'Ivoire, ²CSRS, Abidjan, Côte D'Ivoire

8:45 a.m. **1949**

TARGETING CATTLE FOR MALARIA ELIMINATION: MARKED REDUCTION OF ANOPHELES ARABIENSIS SURVIVAL FOR OVER SIX MONTHS USING A SLOW-RELEASE IVERMECTIN FORMULATION

Kija Ng'habi¹, Gloria Abizanda², Marta Alustiza², Gerry Killeen¹, Fredros Okumu¹, Carlos J. Chaccour²
¹Ifakara Health Institute, Ifakara, United Republic of Tanzania, ²Universidad de Navarra, Pamplona, Spain

9 a.m. **1950**

INVESTIGATING THE ACTIVITY OF THE MACROCYCLIC LACTONES IVERMECTIN AND MOXIDECTIN AGAINST MALARIA VECTORS

Cielo Pasay¹, Paul Mills², Milou Dekkers³, Romal Stewart⁴, Leon Hugo⁴, Oselyne Ong⁴, Chen Wu⁴, Greg Devine⁴, James McCarthy¹
¹Clinical Tropical Medicine, QIMR Berghofer Medical Research Institute, Brisbane, Queensland, Australia, ²School of Veterinary Science, University of Queensland, Gatton, Queensland, Australia, ³Queensland Animal Science Precinct, University of Queensland, Gatton, Queensland, Australia, ⁴Mosquito Control Laboratory, QIMR Berghofer Medical Research Institute, Brisbane, Queensland, Australia

9:15 a.m. **1951**

THE CONTRIBUTION OF SYMPTOMATIC AND ASYMPTOMATIC INFECTIONS TO THE INFECTIOUS RESERVOIR OF PLASMODIUM FALCIPARUM AND PLASMODIUM VIVAX IN ETHIOPIA

Fitsum G. Tadesse¹, Wakweya Chali¹, Kjerstin Lanke², Hassen Mamo³, Abraham Aseffa¹, Robert Sauerwein², Delenasaw Yewhalaw⁴, Chris Drakeley⁵, Endalamaw Gadissa¹, Teun Bousema²
¹Armauer Hansen Research Institute, Addis Ababa, Ethiopia, ²Radboud UMC, Nijmegen, Netherlands, ³Addis Ababa University, Addis Ababa, Ethiopia, ⁴Jimma University, Jimma, Ethiopia, ⁵London School of Hygiene & Tropical Medicine, London, United Kingdom

9:30 a.m. **1952**

OUTDOOR PRIMARY AND "SECONDARY" VECTORS CONTRIBUTING TO RESIDUAL TRANSMISSION IN ZAMBIA

Jennifer C. Stevenson¹, Mbanga Muleba², Limonty Simubali³, Twig Mudenda³, Esther Cardol⁴, James Lupiya², David Mbewe², Christine M. Jones¹, Giovanna Carpi¹, Douglas E. Norris¹
¹Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Tropical Diseases Research Centre, Ndola, Zambia, ³Macha Research Trust, Choma, Zambia, ⁴Radboud University, Nijmegen, Netherlands

Symposium 176

Swift, Wide and Deep: New Tools and Approaches for Generating Accurate Targeted Large-Scale Genetic Data from Complex Samples

Convention Center - Ballroom III (Level 400)

Thursday, November 9, 8 a.m. - 9:45 a.m.

While the declining costs of second generation sequencing have allowed for a massive increase in available genetic data and in particular whole genome sequencing data for malaria parasites, this approach may not always be the most efficient for targeted questions or the cost-effective means of studying parasite diversity. In particular, highly complex samples, which contain multiple strains of parasites, and fully defining drug-resistance, are often problematic for this approach. Techniques are now available for generating genetic data on large numbers of complex samples which can increase the speed and cost efficiency of data acquisition. This symposium will discuss new experimental approaches and bioinformatics tools for generating accurate and large scale genetic data from complex samples that leverage single and multi-target deep sequencing approaches to disentangle the complex data from both individual samples and pooled samples. These approaches have the potential to rapidly scale the amount of data and the rate at which this data is collected and analyzed for parasite populations. The session will highlight practical applications of these approaches and discuss how these techniques can easily be integrated into ongoing studies and malaria surveillance programs, providing a breadth of molecular information for minimal financial and personnel investment. These applications include transmission network analysis, parasite importation, rapid molecular assessment of drug resistance and assessment of gene flow in parasite populations. Disentangling accurate genetic data from complex samples is critical for understanding multiple areas of parasite biology including population genetics, population dynamics, transmission and parasite evolution and selection, all of which are critical to understand for successful malaria control and elimination.

CHAIR

Jonathan J. Juliano

University of North Carolina, Chapel Hill, NC, United States

Jeffrey Bailey

University of Massachusetts Medical School, Worcester, MA, United States

8 a.m.

NEW MOLECULAR APPROACHES FOR MULTI-LOCUS GENOTYPING COMPLEX SAMPLES

Jeffrey Bailey

University of Massachusetts Medical School, Worcester, MA, United States

8:20 a.m.

COUNTRY-WIDE ASSESSMENT OF ANTIMALARIAL RESISTANCE ALLELES FROM POOLED SAMPLES USING MULTI-LOCUS DEEP SEQUENCING AND INTEGRATION INTO CURRENT CONTROL STRATEGIES

Anita Ghansah

Noguchi Memorial Institute for Medical Research, Accra, Ghana

8:40 a.m.

ANALYTICAL STRATEGIES FOR GETTING USEFUL GENETIC INFORMATION FROM COMPLEX MALARIA SAMPLES

Bryan Greenhouse

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

9 a.m.

RECRUDESCENCE OR RELAPSE? LARGE-SCALE GENETIC DATA PROVIDE NEW INSIGHTS ON *P. VIVAX* DRUG RESISTANCE

David Serre

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

Scientific Session 177

Clinical Tropical Medicine II

Convention Center - Ballroom IV (Level 400)

Thursday, November 9, 8 a.m. - 9:45 a.m.

CHAIR

Rebecca Fischer

Baylor College of Medicine, Houston, TX, United States

8 a.m.

1953

IMPACT OF PNEUMOCOCCAL CONJUGATE VACCINE ON INVASIVE PNEUMOCOCCAL DISEASE IN THE GAMBIA: POPULATION-BASED SURVEILLANCE OVER 9 YEARS

Grant Mackenzie¹, Philip Hill², David Jeffries¹, Ilias Hossain¹, Malick Ndiaye¹, Henry Badji¹, Usman Ikumapayi¹, Rasheed Salaudeen¹, Sheikh Jarju¹, Martin Antonio¹, Lamin Ceasay³, Dawda Sowe³, Momodou Jasseh¹, Kim Mulholland⁴, Maria Knoll⁵, Orin Levine⁶, Stephen Howie⁷, Richard Adegbola⁸, Brian Greenwood⁹, Tumani Corrah¹

¹Medical Research Council Unit, The Gambia, Banjul, Gambia, ²University of Otago, Dunedin, New Zealand, ³Ministry of Health, Gambia Government, Banjul, Gambia, ⁴Murdoch Childrens Research Institute, Melbourne, Australia, ⁵Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁶Bill & Melinda Gates Foundation, Seattle, WA, United States, ⁷University of Auckland, Auckland, New Zealand, ⁸GlaxoSmithKline, Wavre, Belgium, ⁹London School of Hygiene & Tropical Medicine, London, United Kingdom

8:15 a.m.

1954

SAFETY, TOLERABILITY AND EFFICACY OF A THREE-DOSE REGIMEN OF RADIATION ATTENUATED *PLASMODIUM FALCIPARUM* NF54 SPOROZOITES (PFSPZ VACCINE) IN HEALTHY MALIAN ADULTS

Mahamadou S. Sissoko¹, Sara A. Healy², Abdoulaye Katile¹, Irfan Zaidi², Erin Gabriel³, Bourama Kamate¹, Yacouba Samake¹, Kourane Sissoko¹, Cheick O. Guindo¹, Amagana Dolo¹, Karamoko Niare¹, Amadou Konate¹, Fanta Koita¹, Kadidia Baba Cisee¹, Amadou Niangaly¹, Amatique Ziguime¹, Merepen A. Guindo¹, M'Bouye Doucoure¹, Boucary Ouologuem¹, Souleymane Traore¹, Boubacar Fomba¹, Sidiki Perou¹, Eric R. James⁴, Tooba Murshedkar⁴, B. Kim Lee Sim⁴, Peter F. Billingsley⁴, Thomas L. Richie⁴, Stephen L. Hoffman⁴, Patrick E. Duffy², Ogobara Doumbo¹

¹MRTC, University of Science, Techniques and Technologies, Bamako, Mali, ²Laboratory of Malaria Immunology and Vaccinology/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ³BRB/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ⁴Sanaria Inc., Rockville, MD, United States

8:30 a.m.

1955

HEPATITIS C, SYPHILIS, AND G6PD DEFICIENCY IN CAMEROONIAN BLOOD DONORS

Stephanie M. Lauden¹, Stella Chongwain², Anzeh Achidi², Ethan Helm², Sarah Cusick¹, Amelia Krug¹, Tina Slusher¹, Troy Lund¹

¹University of Minnesota, Minneapolis, MN, United States, ²Mbingo Baptist Hospital, Mbingo, Cameroon

8:45 a.m.

1956

OUTCOMES OF A PILOT HYDROCELE SURGERY CAMP IN ETHIOPIA

Andualem Deneke¹, Fikreab Kebede², Belete Mengistu², Biruk Kebede², Tigist Hirpa², Molly Brady³, Sunny Mante⁴, Zeina Sifri⁵, Scott McPherson⁶

¹Surgical Society of Ethiopia, Addis Ababa, Ethiopia, ²RTI International, Addis Ababa, Ethiopia, ³RTI International, Washington, DC, United States, ⁴African Filariasis Morbidity Project, Accra, Ghana, ⁵Helen Keller International, Washington, DC, United States, ⁶RTI International, Research Triangle Park, NC, United States

9 a.m.

1957

IDENTIFYING CLINICAL PREDICTORS FOR PROGRESSION TO CHRONIC KIDNEY DISEASE IN MESOAMERICAN NEPHROPATHY

Rebecca S. Fischer¹, Chandan Vangala¹, Sreedhar Mandayam¹, Denis Chavarria², Kristy O. Murray¹

¹Baylor College of Medicine, Houston, TX, United States, ²Gerencia de Salud Ocupacional, Nicaragua Sugar Estates Limited, Chichigalpa, Nicaragua

9:15 a.m.

1958

A NOVEL, PORTABLE INFRARED 3D SCANNER QUICKLY PROVIDES ACCURATE LIMB VOLUME AND CIRCUMFERENCE MEASUREMENTS IN PATIENTS WITH FILARIAL LYMPHEDEMA

Channa Yahathugoda¹, Michael Weiler², Ramakrishna Rao³, Lalindi Da Silva¹, Mirani Weerasooriya¹, Gary Weil³, Philip J. Budge³

¹University of Ruhuna, Galle, Sri Lanka, ²LymphaTech, Atlanta, GA, United States, ³Washington University in St. Louis, St. Louis, MO, United States

9:30 a.m.

1959

ABORTION RATE IS MUCH HIGHER THAN MICROCEPHALY RATE IN ZIKA VIRUS INFECTIONS OCCURRING IN THE FIRST TRIMESTER OF PREGNANCY

Danillo L. Espósito¹, Adriana A. Ferreira¹, Flávia M. Moraes¹, Michelli R. Persona¹, Beatriz dos Ribeiro¹, Suzi V. Fábio², Luzia Márcia R. Passos², Ana Alice M. Castro e Silva², Benedito A. Fonseca¹

¹School of Medicine of Ribeirão Preto, Ribeirão Preto, S.P., Brazil, ²Ribeirão Preto Health Department, Ribeirão Preto, S.P., Brazil

Symposium 178

Household Enumeration for Targeted Interventions: Data, Tools and Experiences from Malaria Elimination

Convention Center - Room 318/319/320 (Level 300)

Thursday, November 9, 8 a.m. - 9:45 a.m.

As various countries strive towards malaria elimination in the next decade, identifying approaches and implementing solutions for improved program efficiencies and larger intervention impact is required. Interventions and program activities, such as Indoor

Residual Spraying (IRS) and Mass Drug Administration (MDA) that require house-to-house visits, are time- and resource-intensive and require detailed understanding of target populations both for facilitating implementation and evaluating intervention coverage. For IRS programs, the WHO recommends that countries assemble enumeration data of target households. These data can be compiled through ground enumeration such as population census. However, these activities are also resource-intensive and become outdated quickly. As an alternative, remote enumeration uses technologies such as remote sensing data and crowd sourcing via Open Street Map (OSM) to provide an opportunity to assemble enumeration data and understand target populations at relatively low costs and at more frequent time points. In order to use the enumeration data for targeting, additional information (malaria burden metrics, previous year's intervention coverage estimates, operational constraints and logistical concerns etc.) is required. User-friendly decision-support tools that allow translation of complex data and analysis to simple information can support evidence-based programmatic decisions making at various levels within the health system. Experiences from malaria programs using enumeration data to target house-to-house interventions are valuable to share for future such implementations and have direct relevance to a number of other disease control and elimination efforts.

CHAIR

Deepa Kishor Pindolia

Clinton Health Access Initiative, Nairobi, Kenya

Hugh Sturrock

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

8 a.m.

DATA TYPES AND METHODOLOGIES FOR ASSEMBLING LARGESCALE, FINE RESOLUTION HOUSEHOLD AND POPULATION ENUMERATION DATASETS

Andrew J. Tatem

Southampton University, Southampton, United Kingdom

8:20 a.m.

SUPPORTING NATIONAL MALARIA PROGRAMS TO DEVELOP HOUSEHOLD ENUMERATION DATASETS FOR IMPROVED TARGETING, PRIORITIZATION AND MONITORING AND EVALUATION OF INDOOR RESIDUAL SPRAYING PROGRAMS

Katelyn Woolheater

Clinton Health Access Initiative, Boston, MA, United States

8:40 a.m.

DEVELOPMENT OF A DISEASE SURVEILLANCE AND RISK MONITORING (DISARM) PLATFORM TO SUPPORT DATA-DRIVEN TARGETING OF INTERVENTIONS

Hugh Sturrock

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

9 a.m.

POPULATION CENSUS AND GROUND ENUMERATION DATA FOR TARGETING MALARIA INTERVENTIONS: THE EXPERIENCE OF A PILOT MALARIA ELIMINATION PROJECT IN SOUTHERN MOZAMBIQUE

Francisco Saute

Manhica Health Research Center, Maputo, Mozambique

Symposium 179

Introduction to the Rotavirus Vaccine Impact on Diarrhea in Africa (VIDA) Study

Convention Center - Room 321/322/323 (Level 300)
Thursday, November 9, 8 a.m. - 9:45 a.m.

Diarrheal illness is the second leading cause of post-neonatal death among children under 5 years of age. The Global Enteric Multicenter Study (GEMS) was conducted in 2006-2009 to elucidate the incidence, etiology and adverse outcomes of moderate-to-severe diarrhea (MSD) among children <5 years in seven developing countries. GEMS demonstrated unequivocally that rotavirus was the leading etiology of MSD during the first two years of life followed by *Cryptosporidium*, *Shigella* and heat-stable toxin-producing enterotoxigenic *E. coli*. Since GEMS, many developing countries have added rotavirus vaccine to their routine infant immunization programs, and marked reductions in child deaths and hospitalizations from rotavirus diarrhea are expected. The impact of vaccine introduction on diarrheal diseases will likely extend beyond changes in rotavirus-associated morbidity and mortality; shifts in predominant pathogens and adverse outcomes associated with MSD are also expected. Continued progress in diarrheal disease control will require a new fund of knowledge to develop and prioritize strategies relevant to the causes and consequences of diarrheal disease in the future. Drawing on methods used in GEMS, the 36-month Vaccine Impact on Diarrhea in Africa (VIDA) case-control study will characterize the etiologic landscape and the overall burden of MSD in a censused population of children living Basse, The Gambia, Bamako, Mali and Siaya County, Kenya—3 African communities that also participated in GEMS. To identify a comprehensive panel of pathogens, quantitative PCR is used in addition to standard methods thereby helping to distinguish infection from colonization, and increasing the ability to identify bacteria despite recent antibiotic use. The VIDA study also will estimate impact and effectiveness of rotavirus vaccines, and will explore changes in adverse clinical consequences (death, growth faltering, persistent diarrhea) following MSD. The VIDA study began in May 2015 and is ongoing. Participants in this symposium will become familiar with the objectives and methods of the VIDA study, and will review data from the first 18 months of enrollment.

CHAIR

Karen Kotloff
University of Maryland Baltimore, Baltimore, MD, United States

8 A.M.

OVERVIEW OF THE OBJECTIVES AND METHODS OF THE VIDA STUDY

Karen Kotloff
University of Maryland Baltimore, Baltimore, MD, United States

8:30 a.m.

ETIOLOGY OF MODERATE-TO-SEVERE DIARRHEA

Richard Onyando Omoro
Centers for Disease Control and Prevention/Kenya Medical Research Institute at the Centre for Global Health Research, Kisumu, Kenya

8:55 a.m.

IMPACT OF VACCINE INTRODUCTION ON THE FREQUENCY OF ADVERSE CLINICAL CONSEQUENCES OF MODERATE-TO-SEVERE DIARRHEA

Jahangir Hossain
Medical Research Council (UK), The Gambia Unit, Banjul, United States

9:20 a.m.

IMPACT AND EFFECTIVENESS OF ROTAVIRUS VACCINATION IN THE VIDA STUDY

Samba O. Sow
Center for Vaccine Development-Mali, Bamako, United States

Scientific Session 180

Mosquitoes: Operational Control

Convention Center - Room 324/325/326 (Level 300)
Thursday, November 9, 8 a.m. - 9:45 a.m.

CHAIR

Brian Lovett
University of Maryland, College Park, MD, United States

Maggy Sikulu-Lord
The University of Queensland, St Lucia, Australia

8 a.m.

1960

PROJECT PREMONITION PROJECT: FIELD TRIALS OF A ROBOTIC SMART TRAP FOR MOSQUITO IDENTIFICATION AND BIONOMICS

Douglas E. Norris¹, Anandasankar Ray², Tom Guda², Eamonn Keogh³, Shailendra Singh³, Yan Zhu³, Mustapha Deboun⁴, Martin Reyna⁴, Maximilian Vigilant⁴, Giovanna Carpi¹, Alex Ching⁵, Patrick Therien⁵, Jonathan Carlson⁵, Ethan Jackson⁵

¹Department of Molecular Microbiology and Immunology, Johns 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, ⁴Mosquito Control Division, Harris County Public Health and Environmental Services, Houston, TX, United States, ⁵Microsoft Research, Redmond, WA, United States

8:15 a.m.

1961

PREVENTING MALARIA PARASITE TRANSMISSION WITH TRANSGENIC ENTOMOPATHOGENIC FUNGI

Brian Lovett¹, Etienne Bilgo², Abdoulaye Diabate², Raymond J. St. Leger¹

¹University of Maryland, College Park, MD, United States, ²Centre Muraz/IRSS, Bobo-Dioulasso, Burkina Faso

8:30 a.m.

1962

MITIGATION OF PYRETHROID-RESISTANT *Aedes aegypti* USING PRE-SEASON, NON-PYRETHROID INDOOR RESIDUAL SPRAYING

Mike W. Dunbar¹, Pablo Manrique-Saide², Anuar Medina², Azael Che-Mendoza³, Felipe Dzul-Manzanilla⁴, Fabian Correa-Morales⁴, Guillermo Guillermo-May², Wilbert Bibiano-Marín², Valentín Uc-Puc², Eduardo Geded-Moreno², José Vadillo-Sánchez², Hugo Delfín-González², Abdiel Martín-Park², Gabriela González-Olvera², Jorge Palacio-Vargas⁴, Scott Ritchie⁵, Audrey Lenhart⁶, Gonzalo M. Vazquez-Prokopec¹

¹Emory University, Atlanta, GA, United States, ²Autonomous University of Yucatan, Merida, Mexico, ³Ministry of Health, Veracruz, Mexico, ⁴Ministry of Health, Merida, Mexico, ⁵James Cook University, Townsville, Australia, ⁶Centers for Disease Control and Prevention, Atlanta, GA, United States

8:45 a.m.

1963

EPI INFOTM FOR MOSQUITO SURVEILLANCE: A FREE MOBILE APPLICATION AND ANALYSIS DASHBOARD TO IMPROVE FIELD DATA COLLECTION AND PROVIDE AUTOMATED ANALYSIS THAT ENABLES DATA-DRIVEN DECISION MAKING FOR VECTOR CONTROL

Rebecca S. Levine, Daniel Impoinvil, Asad Islam, Mohammed Lamtahri, Jose Aponte, Sachin Agnihotri, Matthew Burrows, Audrey Lenhart
Centers for Disease Control and Prevention, Atlanta, GA, United States

9 a.m.

1964

NEXT GENERATION MOSQUITO SURVEILLANCE TECHNIQUE: THE NEAR INFRA-RED SPECTROSCOPY

Maggy Sikulu-Lord¹, Robert Wirtz², Leon Hugo³, Jill Ulrich¹, Gregor Devine³, Milali P. Masabho⁴, Rafael de Freitas⁵, Floyd Dowell⁶

¹The University of Queensland, St. Lucia, Australia, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³QIMR Berghofer Medical Research Institute, Brisbane, Australia, ⁴Marquette University, Milwaukee, WI, United States, ⁵Instituto Oswald Cruz-Fiocruz, Rio de Janeiro, Brazil, ⁶U.S. Department of Agriculture, Kansas City, KS, United States

9:15 a.m.

1965

CHARACTERIZING THE BEHAVIOR OF SUSCEPTIBLE AND RESISTANT STRAINS OF ANOPHELES GAMBIAE AT THE LLIN INTERFACE USING SIMPLE NEW LABORATORY VIDEO TESTS

Angela Hughes, Hilary Ranson, Philip McCall
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9:30 a.m.

1966

DELTAMETHRIN RESISTANCE IN Aedes Aegypti RESULTS IN VECTOR CONTROL FAILURE IN MERIDA, MEXICO

Gonzalo M. Vazquez-Prokopec¹, Anuar Medina-Barreiro², Azael Che-Mendoza³, Felipe Dzul-Manzanilla³, Fabian Correa Morales³, Guillermo Guillermo-May², Wilbert Bibiano-Marin², Valentin Uc-Puc², Eduardo Geded-Moreno², Jose Vadillo-Sanchez², Scott A. Ritchie⁴, Audrey Lenhart⁵

¹Emory University, Atlanta, GA, United States, ²Autonomous University of Yucatan, Merida, Mexico, ³Centro Nacional de Programas Preventivos y Control de Enfermedades (CENAPRECE), Mexico City, Mexico, ⁴James Cook University, Cairns, Australia, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States

Symposium 181

Lasers, Rays and Dyes: Tools and Initiatives in the Fight against Substandard and Falsified Medicines

Convention Center - Room 327/328/329 (Level 300)

Thursday, November 9, 8 a.m. - 9:45 a.m.

The problem of substandard and falsified (SF) medicines has been increasing over the last decade, despite gains in organizations and programs working to effectively and sustainably increase the supply of quality assured medicines. Literature suggests that between 10% and 30% of medicines in developing countries may be substandard or falsified, while the World Health Organization estimates the market for the falsification of medicines to be over \$350 billion. The myriad implications of the problem, most prevalent in lower-middle-income countries (LMICs), include increased morbidity and mortality, the escalation of antimicrobial resistance, loss of trust in the healthcare system, undermining efforts of legitimate pharmaceutical manufacturers and National Medicine Regulatory Authorities (NMRAs). Those working in

this space have realized that, as with most systemic problems, the only solution is a systems-based one. According to the U.S. Agency for International Development's Vision for Health Systems Strengthening (HSS) "strengthen[ing] medicines regulatory capacity to protect public health from counterfeit and substandard products..." is one of the priority objectives within the core function of medical products, vaccines and technologies. The manifest key to protecting public health from SF medicines, thereby assuring the quality of medicines, is their correct identification. Identification generally occurs at multiple points along the supply chain, during manufacturing and both pre- and post-registration of the product. Throughout the manufacturing process and during registration by the NMRAs, a product often undergoes partial or complete analytical testing. This testing incorporates the use of advanced laboratory-based equipment to identify and quantitate the active pharmaceutical ingredient (API) and its impurities and characterize the performance of the product *in vitro*. After registration, continuous monitoring of product quality occurs in many countries. Post market quality surveillance (PMQS) can take place all along the supply chain; at the ports of entry, during import, and at points of distribution, sale and use, such as warehouses, pharmacies and hospitals. Unlike pre-registration testing, PMQS often occurs in field-settings that lack laboratory-based equipment and at times electricity and clean water. As a result, staff may be obligated to use portable screening technologies. This symposium will introduce some of these screening technologies and how they are being implemented in various settings. It will also highlight some of the global initiatives underway related to the development and evaluation of existing and emerging screening technologies and discuss the future of these valuable and constantly evolving tools.

CHAIR

Lukas Roth
United States Pharmacopeial Convention, Rockville, MD, United States

Paul Newton
Mahosot Hospital, Vientiane, Lao People's Democratic Republic

8 a.m.

HOW TO FIND BAD APPLES IN PHARMACIES

Celine Cailliet
Lao-Oxford-Mahosot Hospital Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic

8:20 a.m.

SCREENING SUSPECT AND COUNTERFEIT DRUG USING PORTABLE AND BENCHTOP SPECTROMETERS

Ravi Kalyanaraman
Bristol-Myers Squibb, New Brunswick, NJ, United States

8:40 a.m.

NO HPLC, NO PROBLEM: PAPER TEST CARDS FOR DETECTION OF SUBSTANDARD ANTIBIOTICS

María Lieberman
University of Notre Dame, Notre Dame, IN, United States

9 a.m.

FIGHTING SUBSTANDARD AND FALSIFIED MEDICINES WITH SCREENING TECHNOLOGIES AND LOCAL EMPOWERMENT

Lukas Roth
U.S. Pharmacopeial Convention, Rockville, MD, United States

Scientific Session 182

Intestinal and Tissue Helminths: Soil-Transmitted Helminths - Epidemiology and Control

Convention Center - Room 331/332 (Level 300)
Thursday, November 9, 8 a.m. - 9:45 a.m.

CHAIR

Philip Cooper
Universidad Internacional de Ecuador, Quito, Ecuador

Piero L. Olliaro
World Health Organization, Geneva, Switzerland

8 a.m.

1967

TOXOCARA INFECTION IN AN ECUADORIAN BIRTH COHORT: FROM BIRTH TO 5 YEARS OF AGE

Yisela Oviedo¹, Martha Chico¹, Maritza Vaca¹, Sofia Loor¹, Mauricio L. Barreto², Neuza Alcantara-Neves², Philip Cooper³
¹Fundacion Ecuatoriana Para Investigacion en Salud, Quito, Ecuador,
²Universidad Federal da Bahia, Salvador, Brazil, ³Universidad Internacional de Ecuador, Quito, Ecuador

8:15 a.m.

1968

SEROPREVALENCE OF ANTIBODIES TO TOXOCARA SPECIES IN THE UNITED STATES AND ASSOCIATED RISK FACTORS, 2011-2014

Eugene W. Liu¹, Holly M. Chastain¹, Sun Hee Shin¹, Ryan Wiegand¹, Deanna Kruszon-Moran², Sukwan Handali¹, Jeffrey L. Jones¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States,
²Centers for Disease Control and Prevention - National Center for Health Statistics, Hyattsville, MD, United States

(ACMCIP Abstract)

8:30 a.m.

1969

CHARACTERIZING SOIL-TRANSMITTED HELMINTH SINGLE AND MULTIPLE INFECTIONS RESPONSE TO TREATMENT WITH BENZIMIDAZOLES AND OTHER DRUGS

Piero L. Olliaro¹, Michel Vaillant², Aissatou Diawara³, Eliézer K. N'Goran⁴, Shaali Ame⁵, Xiao-Nong Zhou⁶, Marco Albonico⁷, Benjamin Speich⁸, Stefanie Knopp⁸, Peter Steinmann⁸, Juerg Utzinger⁸, Jennifer Keiser⁸
¹Special Programme for Research and Training in Tropical Diseases (World Health Organization/TDR), Geneva, Switzerland, ²Luxemburg Institute of Health, Luxembourg, Luxembourg, ³Biology program, Division of Science and Mathematics, New York University Abu Dhabi (NYUAD), Abu Dhabi, United Arab Emirates, ⁴Université Félix Houphouët-Boigny de Cocody-Abidjan, Abidjan, Côte D'Ivoire, ⁵Public Health Laboratory-Ivo de Carneri, Chake Chake, United Republic of Tanzania, ⁶National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention, Shanghai, China, ⁷Centre for Tropical Diseases, Negrar, Verona, Italy, ⁸Swiss Tropical and Public Health Institute, Basel, Switzerland

8:45 a.m.

1970

A SINGLE DOSE OF IVERMECTIN, DEC PLUS ALBENDAZOLE IS SUPERIOR TO DEC PLUS ALBENDAZOLE FOR TREATMENT OF TICHURIS TRICHIURA IN INDONESIA

Taniawati Supali¹, Yenny Djuardi¹, Michael Christian¹, Elisa Iskandar¹, Roosпита Maylasari¹, Sarah Wondmeneh², Gary J. Weil², Peter U. Fischer²
¹University of Indonesia, Jakarta, Indonesia, ²Washington University School of Medicine, St. Louis, MO, United States

9 a.m.

1971

SOIL-TRANSMITTED HELMINTH INFECTION AND MASS DRUG ADMINISTRATION IN MYANMAR: ARE ADULTS PERPETUATING TRANSMISSION?

Julia C. Dunn¹, Alison A. Bettis¹, Nay Yee Wyine², Aye Moe Moe Lwin³, Nay Soe Maung³, Roy M. Anderson¹
¹Imperial College London, London, United Kingdom, ²Myanmar NTD Research Collaboration, Yangon, Myanmar, ³University of Public Health, Yangon, Myanmar

9:15 a.m.

1972

ENZYME-LINKED IMMUNOSORBENT ASSAY AS AN ENDGAME DIAGNOSTIC METHOD FOR SOIL-TRANSMITTED HELMINTH INFECTIONS

Rita G. Oliveira¹, Alice V. Easton², Poppy H. Lamberton³, Johnny Vlaminck⁴, Coreen M. Beaumier⁵, Jimmy H. Kihara⁶, Sammy M. Njenga⁶, Charles S. Mwandawiro⁶, Peter Geldhof⁶, Chris Drakeley⁷, Simon J. Brooker⁸, Roy M. Anderson¹
¹Imperial College London, London, United Kingdom, ²National Institutes of Health, Washington, DC, United States, ³University of Glasgow, Glasgow, United Kingdom, ⁴Ghent University, Merelbeke, Belgium, ⁵Baylor College of Medicine, Houston, TX, United States, ⁶Kenya Medical Research Centre, Nairobi, Kenya, ⁷London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁸Bill & Melinda Gates Foundation, Seattle, WA, United States

(ACMCIP Abstract)

9:30 a.m.

1973

POOL THE STOOL: POOLING STOOL SAMPLES AS A STRATEGY FOR INCREASING THE EFFICIENCY AND EFFECTIVENESS OF REAL-TIME PCR FOR SOIL-TRANSMITTED HELMINTHS (STH)

Marina Papaikovou¹, Nils Pilotte¹, Yan Hu², Raffi V. Aroian², Judd L. Walson³, Steven A. Williams¹
¹Smith College, Northampton, MA, United States, ²University of Massachusetts Medical School, Worcester, MA, United States, ³University of Washington, Seattle, WA, United States

(ACMCIP Abstract)

Scientific Session 183

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Kinetoplastida - Molecular, Cellular and Immunobiology

Convention Center - Room 337/338 (Level 300)
Thursday, November 9, 8 a.m. - 9:45 a.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Jyoti Pant
City University of New York, Rego Park, NY, United States

Melissa L. Sykes
Eskitis Institute for Drug Discovery, Brisbane, Australia

8 a.m.

2011

SPECIES SPECIFIC TRYPANOSOME RESISTANCE IS GOVERNED BY APOL1 VARIATION IN BABOONS

Joey Verdi, Russel Thomson, Jayne Raper
Hunter College, CUNY, New York, NY, United States

8:15 a.m.

2012

TCMCS-PARASITE PRESSURE GAUGE: REGULATORY ROLE OF A MECHANOSENSITIVE CHANNEL IN *T. CRUZI* PHYSIOLOGICAL MECHANISMS

Noopur Dave¹, Patricia Barrera¹, Ugur Cetiner², Sergei Sukharev², Veronica Jimenez¹

¹Center for Applied Biotechnology Studies and Department of Biological Science, Natural Sciences and Mathematics, California State University, Fullerton, CA, United States, ²Department of Biology, University of Maryland, College Park, MD, United States

8:30 a.m.

1974

IMAGE-BASED TECHNOLOGY IDENTIFIES CANDIDATES FOR THE *IN VITRO* SINGLE-TREATMENT OF *TRYPANOSOMA CRUZI* AND *TRYPANOSOMA BRUCEI* PARASITES FROM THE MMV PATHOGEN BOX COLLECTION OF COMPOUNDS

Melissa L. Sykes

Eskitis Institute for Drug Discovery, Brisbane, Australia

8:45 a.m.

1975

ANTI-LEISHMANIAL LUCIFERASE BASED *IN VITRO* HIGHTHROUGHPUT SCREENING OF INTRACELLULAR AMASTIGOTES OF GEOGRAPHICALLY DIVERSE PARASITES

Mozna Khraiwesh, Erica Penn, Susan Leed, Juan Mendez, Chad Black, Mara Kreishman-Deitrick, Mark Hickman, Brian Vesely
Walter Reed Army Institute of Research, Silver Spring, MD, United States

9 a.m.

1976

COORDINATE REGULATION OF CELLULAR PROCESSES BY INOSITOL PHOSPHATES DURING *TRYPANOSOMA BRUCEI* LIFE CYCLE DEVELOPMENT

Ken Stuart, Atashi Anupama, Igor Cestari

Center for Infectious Disease Research, Seattle, WA, United States

(ACMCIP Abstract)

9:15 a.m.

1977

UNDERSTANDING THE TLF MEDIATED KILLING OF *LEISHMANIA SP.*

Jyoti Pant¹, Maria Nelson², Mert K. Keceli³, Jayne Raper¹

¹The Graduate Center, City University of New York, New York, NY, United States, ²City University of New York, New York, NY, United States, ³Hunter College, New York, NY, United States

(ACMCIP Abstract)

9:30 a.m.

1978

INTERFERING POLYAMINES METABOLISM IN TRYPANOSOMATIDS, A VALID APPROACH FOR DRUG DEVELOPMENT

Esteban A. Panozzo Zenere¹, Exequiel O. Porta¹, Diego Benitez², Shane Wilkinson³, Sigrid C. Roberts⁴, Marcelo Comini², Gut Jiri⁵, Juan Engel⁶, James McKerrow⁶, Babu Tekwani⁶, Guillermo R. Labadie¹

¹IQUIR, Rosario, Argentina, ²Institute Pasteur, Montevideo, Uruguay, ³Queen Mary University of London, London, United Kingdom, ⁴Pacific University of London, Oregon, OR, United States, ⁵University of California San Francisco, San Francisco, CA, United States, ⁶University of Mississippi, Mississippi, MS, United States

Symposium 184

Update on Pneumonia Innovations 2017

Convention Center - Room 339/340 (Level 300)

Thursday, November 9, 8 a.m. - 9:45 a.m.

Pneumonia persists as the leading infectious killer of children under five, more than HIV, tuberculosis and malaria combined. As deaths due to other common childhood diseases decrease worldwide, pneumonia mortality remains unacceptably high. Please join this symposium for a 2017 update on global pneumonia prevention and treatment innovations targeting low-resource settings where the pneumonia burden is highest.

CHAIR

Amy Ginsburg

Save the Children, Fairfield, CT, United States

Keith Klugman

Bill & Melinda Gates Foundation, Seattle, WA, United States

8 a.m.

IMMUNIZATION STRATEGIES TO REDUCE MORTALITY FROM PNEUMONIA AND NEONATAL SEPSIS

Keith Klugman

Bill & Melinda Gates Foundation, Seattle, WA, United States

8:20 a.m.

RECENT INNOVATIONS IN PNEUMONIA DIAGNOSTICS AND PROGNOSTICS

Amy Ginsburg

Save the Children, Fairfield, CT, United States

8:40 a.m.

UPDATE ON ONGOING RESEARCH IN PNEUMONIA TREATMENT

Fyezah Jehan

Aga Khan University, Karachi, Pakistan

9 a.m.

NON-INVASIVE VENTILATION AS A TREATMENT FOR CHILDHOOD PNEUMONIA IN LOW-RESOURCE SETTINGS

Eric McCollum

Johns Hopkins University, Baltimore, MD, United States

Symposium 185

New Approaches to Health Impact Measurement in Water, Sanitation and Hygiene (WASH) Trials

Convention Center - Room 341/342 (Level 300)

Thursday, November 9, 8 a.m. - 9:45 a.m.

The existing evidence base for water, sanitation, and hygiene interventions is dominated by trials using self-reported diarrhea or anthropometry as primary outcome measures, both of which are subject to considerable bias. In addition, there is increasing evidence that repeated and cumulative exposure to enteric pathogens may be more relevant for longer term child health outcomes such as growth faltering and cognitive impairment than measurements of acute cases of diarrhea (in the absence of severe dehydration). Recent developments in methods to directly measure enteric infections include multiplex stool diagnostic assays, serological assays, strain typing and other emerging molecular methods that are transforming the field. Such

measures have the advantages of being objectively measurable, highly sensitive and specific across a range of etiologies, and have the potential to yield more nuanced information about transmission pathways that will provide insights into control strategies. This symposium will focus on recent, current and proposed studies of WASH and enteric infection risk, with a focus on novel outcome measures and the opportunities and challenges they present.

CHAIR

Joe Brown
Georgia Institute of Technology, School of Civil and Environmental Engineering, Atlanta, GA, United States

Karen Levy
Emory University, Rollins School of Public Health, Atlanta, GA, United States

8 a.m.

THE F DIAGRAM REIMAGINED: MOLECULAR FINGERPRINTS OF ENTERIC PATHOGEN EXPOSURE PATHWAYS

Kelly Baker
University of Iowa, Iowa City, IA, United States

8:20 a.m.

SEROLOGICAL ANTIBODY MEASURES OF ENTERIC PATHOGEN EXPOSURE AS ENDPOINTS IN TRIALS

Benjamin Arnold
University of California Berkeley, Berkeley, CA, United States

8:40 a.m.

ASSOCIATION OF MARKERS OF EED TO ROTAVIRUS VACCINE SEROCONVERSION

Roma Chilengi
Centre for Infectious Disease Research in Zambia (CIDRZ), Lusaka, Zambia

9 a.m.

TOWARD MICROBIAL DISEASE DIAGNOSIS USING METAGENOMICS: A CASE OF THE RUNS

Kostas Konstantinidis
Georgia Institute of Technology, School of Civil and Environmental Engineering, Atlanta, GA, United States

Scientific Session 186

Bacteriology: Salmonella/Typhoid/Fever

Convention Center - Room 343/344 (Level 300)

Thursday, November 9, 8 a.m. - 9:45 a.m.

CHAIR

Jason R. Andrews
Stanford University School of Medicine, Stanford, CA, United States

Megan E. Reller
Duke University, Durham, NC, United States

8 a.m.

1979

INCIDENCE OF AMONG YOUNG CHILDREN IN SUB-SAHARAN AFRICA: MAL055 RTS,S/AS01 SALMONELLA ANCILLARY STUDY

Calman A. MacLennan¹, Ryan Wiegand², Nelli Westercamp², Simon Kariuki³, Clinical Trials Partnership Committee Investigators⁴
¹University of Oxford, Oxford, United Kingdom, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Kenya Medical Research Institute/Centers for Disease Control and Prevention, Kisumu, Kenya, ⁴Clinical Trials Partnership Committee, Kisumu, Kenya

8:15 a.m.

1980

UNDERSTANDING THE POTENTIAL VALUE OF NEW DIAGNOSTICS FOR ENTERIC FEVER: INSIGHTS FROM DECISION ANALYTIC MODELING

Jason R. Andrews¹, Paul Arora², Isaac I. Bogoch³, Edward T. Ryan⁴
¹Stanford University School of Medicine, Stanford, CA, United States, ²Dalla Lana School of Public Health, University of Toronto, Toronto, ON, Canada, ³University of Toronto, Toronto, ON, Canada, ⁴Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States

8:30 a.m.

1981

COMPARISON OF STRATEGIES AND THRESHOLDS FOR VI CONJUGATE VACCINES AGAINST TYPHOID FEVER: A COST-EFFECTIVENESS MODELING STUDY

Nathan C. Lo¹, Ribhav Gupta¹, Jeffrey D. Stanaway², Denise O. Garrett³, Isaac I. Bogoch⁴, Stephen P. Luby¹, Jason R. Andrews¹
¹Stanford University School of Medicine, Stanford, CA, United States, ²Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA, United States, ³Typhoid Programs, Sabin Vaccine Institute, Washington, DC, United States, ⁴University of Toronto, Toronto General Hospital, Toronto, ON, Canada

8:45 a.m.

1982

RICKETTSIAL INFECTIONS AS A MAJOR ETIOLOGY OF ACUTE FEBRILE ILLNESS: A PROSPECTIVE STUDY IN NORTHERN SABAH, BORNEO, EAST MALAYSIA

Megan E. Reller¹, Mathew Grigg², Timothy William³, Tsin Yeo⁴, Emily G. Clemens⁵, J. Stephen Dumler⁵
¹Duke University, Durham, NC, United States, ²Menzie School of Health Research, Darwin, Australia, ³Queen Elizabeth Hospital, Sabah, Malaysia, ⁴Nanyang Technological University, Singapore, Singapore, ⁵Uniformed Services University of the Health Sciences, Bethesda, MD, United States

9 a.m.

1983

TIMING AND SPATIAL HETEROGENEITY OF LEPTOSPIROSIS TRANSMISSION IN NORTHEAST THAILAND

Katharine A. Owers¹, Soawapak Hinjoy², James E. Childs¹, Vincent Herbreteau³, Peter J. Diggle⁴, Albert I. Ko¹
¹Yale School of Public Health, New Haven, CT, United States, ²Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, ³IRD, ESPACE-DEV (IRD, UM2, UR, UAG), Saint-Pierre, France, ⁴Division of Medicine, Lancaster University, Lancaster, United Kingdom

9:15 a.m.

1984

DNA AND RNA SEQUENCING-BASED METAGENOMICS FOR UNBIASED PATHOGEN DETECTION AMONG TANZANIAN ADULTS WITH UNDIFFERENTIATED FEBRILE ILLNESS

Matthew P. Rubach¹, Erin H. Graf², Kornelia Edes², Holly M. Biggs¹, Wilbroad Saganda³, Bingileki F. Lwezaula³, Venance P. Maro⁴, John A. Crump¹, Robert Schlberg²
¹Duke University, Durham, NC, United States, ²University of Utah, Salt Lake City, UT, United States, ³Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, ⁴Kilimanjaro Christian Medical University College, Moshi, United Republic of Tanzania

9:30 a.m.

1985

SYSTEMIC INFLAMMATION AND NEURODEVELOPMENTAL OUTCOMES IN BANGLADESHI INFANTS GROWING UP IN ADVERSITY

Nona M. Jiang¹, Fahmida Tofail², Jennie Z. Ma¹, Rashidul Haque², Beth D. Kirkpatrick³, Charles A. Nelson, III⁴, William A. Petri, Jr.¹

¹University of Virginia, Charlottesville, VA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³University of Vermont, Burlington, VT, United States, ⁴Boston Children's Hospital, Harvard Medical School, Boston, MA, United States

Coffee Break

Convention Center - Pratt Street West Lobby (Level 300)
Thursday, November 9, 9:45 a.m. - 10:15 a.m.

Plenary Session 187

Plenary Session V

Convention Center - Ballroom III (Level 400)
Thursday, November 9, 10:15 a.m. - 11 a.m.

CHAIR

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

HIV/AIDS PANDEMIC: A FEASIBLE GOAL



Anthony S. Fauci, MD
Director
National Institute of Allergy and Infectious Diseases, National Institutes of Health
Bethesda, Maryland

Anthony S. Fauci, MD, is a physician-scientist who directs the NIAID-NIH in Bethesda, MD. He oversees an extensive research program on infectious diseases such as HIV/AIDS, influenza, tuberculosis, Ebola and Zika, as well as diseases of the immune system. Dr. Fauci also serves as one of the key advisors to the White House and Department of Health and Human Services on global infectious disease issues. He was one of the principal architects of the President's Emergency Plan for AIDS Relief (PEPFAR), a program that has saved millions of lives throughout the developing world. Dr. Fauci also is the long-time chief of the NIAID Laboratory of Immunoregulation, where he has made numerous important discoveries related to HIV/AIDS and is one of the most-cited scientists in the field. He is a member of the U.S. National Academy of Sciences and the U.S. National Academy of Medicine, and has received numerous prestigious awards for his scientific and global health accomplishments, including the National Medal of Science, the Robert Koch Medal, the Mary Woodard Lasker Award for Public Service, and the Presidential Medal of Freedom. He has been awarded 43 honorary doctoral degrees and is the author, coauthor, or editor of more than 1,300 scientific publications, including several major textbooks.

Break

Thursday, November 9, 11 a.m. - 11:15 a.m.

Scientific Session 188

Malaria: Applications of Innovative Technologies

Convention Center - Ballroom II (Level 400)
Thursday, November 9, 11:15 a.m. - 1 p.m.

CHAIR

Kent Kester
Sanofi Pasteur, Swiftwater, PA, United States
Aduugna Woyessa
Ethiopian Public Health Institute, Addis Ababa, Ethiopia

11:15 a.m.

1986

SURVEILLANCE OF MALARIA AMONG UNITED STATES PEACE CORPS VOLUNTEERS USING ELECTRONIC MEDICAL RECORDS

Elizabeth Davlantes¹, Lauren Lewis¹, Susan Henderson², Rennie Ferguson², Kathrine Tan¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Peace Corps, Washington, DC, United States

11:30 a.m.

1987

CHARACTERIZATION OF PHYSIOLOGICAL SIGNATURES OF PLASMODIUM INFECTIONS IN NONHUMAN PRIMATES USING A CONTINUOUS TELEMETRY SYSTEM

Jessica Brady¹, Monica Cabrera-Mora², Allison Hankus², Ebru Karpuzoglu², Jennifer S. Wood³, Jay C. Humphrey⁴, Mustafa V. Nural⁵, Jeremy DeBarry⁵, Rabindra Tirouvanziam⁶, Alberto Moreno⁷, Jessica Kissinger⁸, Mary R. Galinski⁷, Juan B. Gutierrez⁹, MaHPIC Consortium¹⁰, Hammer Consortium¹¹
¹College of Engineering, University of Georgia, Athens, GA, United States, ²Emory Vaccine Center, Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, ³Division of Animal Resources, Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, ⁴Institute of Bioinformatics, The Center for Tropical and Emerging Global Diseases, Department of Genetics, University of Georgia, Athens, GA, United States, ⁵Institute of Bioinformatics, University of Georgia, Athens, GA, United States, ⁶Department of Pediatrics, Emory University, Atlanta, GA, United States, ⁷Emory Vaccine Center, Yerkes National Primate Research Center, Department of Infectious Diseases, Department of Medicine, Emory University, Atlanta, GA, United States, ⁸Institute of Bioinformatics, Department of Genetics, University of Georgia, Athens, GA, United States, ⁹Institute of Bioinformatics, Department of Mathematics, University of Georgia, Athens, GA, United States, ¹⁰Malaria Host-Pathogen Interaction Center; <http://systemsbiology.emory.edu>, GA, United States, ¹¹Host Acute Models of Malaria to study Experimental Resilience, GA, United States

11:45 a.m.

1988

A SPATIAL DECISION SUPPORT SYSTEM APPROACH TO IMPLEMENTING MALARIA SURVEILLANCE AS A CORE INTERVENTION ACTIVITY IN HIGH PRIORITY AREAS OF VIETNAM

Sara E. Canavati¹, Thuan Huu Vo², Thinh Ngoduc³, Duong Thanh Tran⁴, Thang Duc Ngo⁴, Gerard Kelly⁵, Nicholas J. Martin⁶
¹Vysnova Partners Inc.; Center for Biomedical Research, Burnet Institute, Melbourne, Australia, Hanoi, Vietnam, ²Vysnova Partners Inc.; Faculty of Social Sciences, University of Tampere, Tampere, Finland, Hanoi, Vietnam, ³Provincial Malaria Department, Phu Yen Province, Vietnam, Phu Yen, Vietnam, ⁴National Institute of Malariology, Parasitology and Entomology (NIMPE), Ha Noi, Vietnam, ⁵Research School of Population Health, College of Medicine, Biology and Environment, The Australian National University, Queensland, Australia, ⁶Naval Medical Research Center-Asia, Singapore, Singapore

Noon

1989

CLIMATE VARIABILITY AND MALARIA TRANSMISSION IN ETHIOPIA: APPLICATION OF A NEW CLIMATE DATASET FOR DISTRICT-BASED MALARIA ELIMINATION STRATEGY

A dugna Woyessa¹, Aisha Owusu², Madeleine Thomson², Dereje Dilu³, Hiwot Solomon³

¹Ethiopian Public Health Institute, Addis Ababa, Ethiopia, ²International Research Institute for Climate and Society, Palisades, NY, United States, ³National Malaria Control Program, Federal Ministry of Health of Ethiopia, Addis Ababa, Ethiopia

12:15 p.m.

1990

IN-HAND, IN-FIELD, IN-TIME DATA: EFFECTIVELY DIRECTING MOP-UPS IN AN INDOOR RESIDUAL SPRAY CAMPAIGN

Anne C. Martin¹, Derek Pollard¹, Silvia Renn¹, Busiku Hamainza², David Larsen³, Anne Winters¹

¹Akros, Lusaka, Zambia, ²National Malaria Elimination Center, Government of Zambia, Lusaka, Zambia, ³Syracuse University, Syracuse, NY, United States

12:30 p.m.

1991

TOWARDS INCORPORATION OF MALARIA CONTROL INTO PLANNING AND MANAGEMENT OF WATER INFRASTRUCTURE

Jonathan Lautze¹, Solomon Kibret², Matthew McCartney³, Luxon Nhamo¹

¹International Water Management Institute, Pretoria, South Africa, ²University of California, Irvine, CA, United States, ³International Water Management Institute, Vientiane, Lao People's Democratic Republic

12:45 p.m.

1992

BED NET EFFECTIVENESS VARIES BY INSECTICIDE ACROSS AFRICA: A LARGE, POPULATION-BASED OBSERVATIONAL STUDY

Mark M. Janko, Michael E. Emch, Steven R. Meshnick

University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Symposium 189

Taking Innovations to Market: Ideas and Products from the Ebola and Zika and Future Threats Grand Challenges for Development

Convention Center - Ballroom III (Level 400)

Thursday, November 9, 11:15 a.m. - 1 p.m.

Grand Challenges call on the brightest minds across the globe to share their bold ideas. Over the past three years, the U.S. Agency for International Development has issued two Grand Challenges that aim to curb the spread of infectious diseases and help strengthen the world's ability to prevent, detect and respond to future disease outbreaks: Fighting Ebola and Combating Zika and Future Threats. In response to the two Challenges, USAID received over 2,400 ideas and funded portfolios of 14 and 26 innovations across Ebola and Zika, respectively, for accelerated development, testing and deployment. The diverse portfolios cover a range of topics, from personal protective equipment and decontamination to vector control and disease surveillance. This symposium will feature seven interactive lightning talks from USAID-funded innovators, and a panel of experts who will briefly discuss the solutions following each talk. In addition, the session will share the lessons learned from innovating in the midst of a health crisis, discuss how USAID has supported innovators as

they develop and test their solutions, and highlight opportunities for partnership and collaboration. At the end of the symposium participants will be aware of the commitment taken by USAID to actively assist innovations to take their products to market and how this process may be a roadmap to be applied to other public health threats.

CHAIR

May Chu

Colorado School of Public Health, Aurora, CO, United States

11:15 a.m.

DRIP ASSIST INFUSION MONITOR

Beth Kolko

Shift Labs, Seattle, WA, United States

11:25 a.m.

A SAFER AND FASTER-DOFFING PPE

Youseph Yazdi

Johns Hopkins University, Baltimore, MD, United States

11:35 a.m.

POWDERED BLEACH ADDITIVE

Jason Kang

Kinnos, US, Brooklyn, NY, United States

11:45 a.m.

FIELD ASSESSMENT OF YEAST INTERFERING RNA LARVICIDES TARGETING ZIKA VECTOR MOSQUITOES IN BELIZE

Molly Duman Scheel

Indiana University School of Medicine, South Bend, IN, United States

11:55 a.m.

VECTORWEB: A LOW-COST NETWORK OF CLOUD CONNECTED OVITRAPS FOR AUTOMATED MOSQUITO SURVEILLANCE

Meg Glancey

Johns Hopkins University, Baltimore, MD, United States

12:05 p.m.

ZIKA: A FAST NEW INTERVENTION AND INNOVATIVE EVALUATION METHOD

Greg Devine

University of Queensland, Brisbane, Australia

12:15 p.m.

POCPAK, POINT-OF-CARE CONNECTIVITY AND POWER KIT, AND ASPECT DATA PLATFORM

Tamara Sloan

SystemOne, Springfield, MA, United States

REVIEW PANEL

Jennifer Fluder

U.S. Agency for International Development, Arlington, VA, United States

Vikas Meka

U.S. Agency for International Development, Arlington, VA, United States

Marissa Leffler

U.S. Agency for International Development, Arlington, VA, United States

Adriana Velazquez-Berumen

World Health Organization, Geneva, Switzerland

Symposium 190

The Epidemic of Cancer in Africa: Prevention, Early Detection and the Role of Infection Control

Convention Center - Ballroom IV (Level 400)
Thursday, November 9, 11:15 a.m. - 1 p.m.

This symposium will cover the main aspects of cancer development in the continent of Africa, focusing specifically on the sub-Saharan Africa region. As the life expectancy of the population in Africa continues to increase, cancer has become an increasing problem that will need more action based on prevention in the years to come. This symposium will focus on four cancers, three of which are infectious-related, and one non-infectious related. These have been chosen on the basis of high impact due to reported frequency, but more importantly, due to the possibility of prevention and early detection. In general, sub-Saharan Africa lacks the resources to treat tumors at a more advanced stage. However, many of the most lethal cancers can be easily treated if detected early. Therefore, programs to promote prevention and early detection are critical. This symposium will focus on the following: a) Liver cancer related to hepatitis B infection has shown a more aggressive behavior in Africa, and it has a great chance of prevention via vaccination, but also burden can be reduced through early detection by screening and simple local treatments. b) Cervical cancer associated to human papilloma virus infection in East Africa has the highest incidence and mortality in the world, also preventable with vaccination, which is not yet widely available throughout the continent. Secondary prevention with VIA promotes a "one stop" intervention for screening and treatment of pre-malignant state, important in resource-limited settings c) HIV-related tumors have been a long-standing burden in Africa. As much attention has focused on "opportunistic infectious diseases" during HIV infection, little emphasis is placed on health care workers to understand and approach related malignancies like Kaposi's sarcoma. Also common cancers like those from cervix and liver behave differently during HIV infection. d) Breast cancer frequency is increasing dramatically in Africa and is the most common cancer in women in the continent. This tumor also presents a unique challenge as it carries a social stigma due to the external visibility of the affected area, distressing family life early on. Simple tools like self-examination of the breast have an important impact in early detection and treatment. This symposium will be presented by experts in the field in each of these tumors, all of them working in Africa. Participants will be provided with with the latest epidemiological details of these tumors, as well as with simple high impact approaches to decrease their burden. The session will detail successful programs that have been implemented in different areas of the continent to deal with this epidemic.

CHAIR

Jose D. Debes
University of Minnesota, Minneapolis, MN, United States

Randy Hurley
Health Partners, St. Paul, MN, United States

11:15 a.m.
HEPATITIS B AND HEPATOCELLULAR CARCINOMA

Jose D. Debes
University of Minnesota, USA/ALMC Arusha, Tanzania, Minneapolis, MN, United States

11:35 a.m.
THE EPIDEMIC OF BREAST CANCER: MISCONCEPTIONS AND PREVENTION

Tara J. Rick
St. Catherine University, St. Paul, MN, United States

11:55 a.m.
HIV-RELATED TUMORS: BEYOND KAPOSIS

Randy Hurley
Health Partners Institute, St. Paul, MN, United States

12:15 p.m.
CERVICAL CANCER IN AFRICA, VIA SCREENING AND CRYOTHERAPY

Katrin Mwimbe Boehl
Dodoma Christian Medical Center, Dodoma, United Republic of Tanzania

Symposium 191

Clinico-Epidemiologic Studies and Laboratory Diagnostic Approaches during the 2016 Zika Outbreak in Puerto Rico

Convention Center - Room 318/319/320 (Level 300)
Thursday, November 9, 11:15 a.m. - 1 p.m.

Following the introduction of Zika virus to Puerto Rico in late 2015, more than 38,000 laboratory-positive Zika virus disease cases were reported throughout the island in 2016 and transmission has continued to date albeit at low levels. Clinical and epidemiologic investigations conducted by CDC Dengue Branch have focused on estimation of the median duration of Zika virus persistence in various body fluids, evaluating the association of Zika virus infection with Guillain-Barre syndrome, and community-based surveys to assess the ratio of symptomatic-to-asymptomatic Zika virus infections and underreporting of cases to passive surveillance systems. Zika infection is often asymptomatic. If symptomatic, the disease is usually mild. However, severe manifestations of Zika infection have been described. Based on a large cohort of symptomatic Zika-infected patients in Puerto Rico, this session will present a description of the spectrum of clinical manifestations of Zika infection and virologic aspects. Beginning with the identification of Zika virus transmission in Brazil, the epidemic that spread throughout the Americas was characterized by uncertainties. Early in the epidemic, limited data and novel analyses were used to assess the risk of severe consequences of infection, namely congenital birth defects and Guillain Barré syndrome. Then there was assessment of the potential impact of the Zika epidemic in Puerto Rico and development of additional tools to monitor the epidemic as it progressed. The Zika Virus produces low, but persistent viremias in symptomatic and asymptomatic individuals; and the virus is present in other body fluids different from blood, such as semen and urine. Because serological tests for Zika may detect antibodies for other flaviviruses, even those from previous infections, Zika diagnosis heavily relies on molecular detection

methods such as PCR. During the last year, several molecular tests have been developed for Zika detection; but arbovirus diagnosis and surveillance still lacks similar tests for dengue or chikungunya. The Triplex test developed by CDC fulfills the need for simultaneous detection of these three pathogens in serum, urine and other body fluids. The U.S. Virgin Islands Department of Health tested a large number of symptomatic persons and pregnant women for Zika infection by Zika IgM, dengue IgM, and plaque reduction neutralization. Analysis of these results among over 1000 confirmed infections, and additional efforts to estimate the burden of Zika among pregnant women will be presented.

CHAIR

Stephen Waterman
Centers for Disease Control and Prevention, San Juan, PR, Puerto Rico

11:15 a.m.
UNDERSTANDING THE PATHOPHYSIOLOGY OF ZIKA VIRUS THROUGH CLINICAL AND EPIDEMIOLOGIC INVESTIGATIONS IN PUERTO RICO

Tyler Sharp
Centers for Disease Control and Prevention, San Juan, PR, Puerto Rico

11:35 a.m.
SYMPTOMATIC ZIKA INFECTIONS, CLINICAL AND VIROLOGIC ASPECTS

Jennifer Read
University of Vermont, Burlington, VT, United States

11:55 a.m.
CONFRONTING UNCERTAINTY: DATA AND ANALYTICS TO SUPPORT THE ZIKA RESPONSE IN PUERTO RICO

Michael Johansson
Centers for Disease Control and Prevention, San Juan, Puerto Rico

12:15 p.m.
RELIANCE OF ZIKA DIAGNOSIS ON MOLECULAR DETECTION

Jorge Munoz
Centers for Disease Control and Prevention, San Juan, PR, Puerto Rico

12:35 p.m.
ZIKA IN THE U.S. VIRGIN ISLANDS

Brett Ellis
U.S. Virgin Islands Department of Health, Christiansted, Virgin Islands, U.S.

Scientific Session 192

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria and Protozoal Diseases – Biology and Pathogenesis

Convention Center - Room 321/322/323 (Level 300)

Thursday, November 9, 11:15 a.m. - 1 p.m.

Supported with funding from the Burroughs Wellcome Fund

CHAIR

Anne Kessler
Albert Einstein College of Medicine, Bronx, NY, United States

Nicanor Obaldia
Instituto Conmemorativo Gorgas, Panama, Panama

11:15 a.m.

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2017. SEE THE MEETING APP AND ONLINE PROGRAM PLANNER FOR SPEAKER INFORMATION.

11:30 a.m.

INVITED SPEAKER FROM THE WOODS HOLE MOLECULAR PARASITOLOGY MEETING HELD IN SEPTEMBER 2017. SEE THE MEETING APP AND ONLINE PROGRAM PLANNER FOR SPEAKER INFORMATION.

11:45 a.m.

1993

PTEX COMPONENT EXP2 IS REQUIRED FOR PROTEIN EXPORT AND SMALL MOLECULE TRANSPORT ACROSS THE MALARIA PARASITE VACUOLE MEMBRANE

Josh Beck¹, Matthias Garten², Svetlana Glushakova², Armiyaw S. Nasamu¹, Jacquin C. Niles³, Joshua Zimmerberg², Daniel E. Goldberg¹
¹Washington University School of Medicine, St. Louis, MO, United States, ²National Institutes of Health, Bethesda, MD, United States, ³Massachusetts Institute of Technology, Cambridge, MA, United States

(ACMCIP Abstract)

Noon

1994

LINKING EPCR-BINDING PFEMP-1 TO BRAIN SWELLING IN PEDIATRIC CEREBRAL MALARIA

Anne Kessler¹, Selasi Dankwa², Maria Bernabeu², Visopo Harawa³, Samuel Danziger², Fergal Duffy², Sam Kampondeni⁴, Michael Potchen⁵, Nicholas Dambrauskas², Vladimir Vigdorovich², Brian Oliver², Noah Sather², Ian MacCormick³, Wilson Mandala³, Stephen Rogerson⁶, John Aitchison², Terrie Taylor⁴, Sarah Hochman⁷, Wenzhu Mowrey¹, Karl Seydel⁴, Joseph Smith², Kami Kim¹

¹Albert Einstein College of Medicine, Bronx, NY, United States, ²Center for Infectious Disease Research, Seattle, WA, United States, ³Malawi-Liverpool Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ⁴Blantyre Malaria Project, Blantyre, Malawi, ⁵University of Rochester Medical Center, Rochester, NY, United States, ⁶University of Melbourne, Melbourne, Australia, ⁷New York University Langone Medical Center, New York, NY, United States

12:15 p.m.

1995

THE BONE MARROW AS A MAJOR RESERVOIR FOR *P. VIVAX* INFECTION

Nicanor III Obaldia¹, Elamaram Meibalan², Juliana Martha Sa³, Siyuan Ma⁴, Pedro Mejia², Roberto Moraes Barros³, William Otero⁵, Manoj T. Duraisingh², Danny Milner², Curtis Huttenhower⁴, Dyann F. Wirth², Tom Wellems³, Matthias Marti⁶

¹Department of Immunology and Infectious Diseases, Harvard | T.H. Chan School of Public Health, Boston, MA and Instituto Conmemorativo Gorgas, Panama, Panama, ²Department of Immunology and Infectious Diseases, Harvard | T.H. Chan School of Public Health, Boston, MA, United States, ³Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ⁴Department of Biostatistics, Harvard | T.H. Chan School of Public Health, Boston, MA, United States, ⁵Tropical Medicine Research/Instituto Conmemorativo Gorgas, Panama, Panama, ⁶Wellcome Trust Center for Molecular Parasitology, University of Glasgow, Glasgow, United Kingdom

12:30 p.m.

1996

FUNCTIONAL CONSERVATION OF AN ESSENTIAL HOST CELL INVASION LIGAND BETWEEN *P. FALCIPARUM* AND *P. VIVAX*, AND A PLATFORM TO ACCELERATE VACCINE DEVELOPMENT

Damien R. Drew, Paul R. Sanders, Gretchen Weiss, Paul R. Gilson, Brendan S. Crabb, **James G. Beeson**
The Burnet Institute, Melbourne, Australia

(ACMCIP Abstract)

12:45 p.m.

1997

NANO-SCALE IMAGING REVEALS HOST CELL REMODELLING AND KNOB ASSEMBLY MECHANISMS IN *PLASMODIUM FALCIPARUM*

Oliver Looker¹, Emma McHugh¹, Boyin Liu¹, Adam Blanch¹, Shannon Kenny¹, Dean Andrew¹, Eric Hannsen², Paul McMillan³, Leann Tilley¹, **Matthew W. Dixon¹**

¹Department of Biochemistry and Molecular Biology, Bio21 Institute, University of Melbourne, Melbourne, Australia, ²Melbourne Advance Microscopy Facility, Bio21 Institute, University of Melbourne, Melbourne, Australia, ³Biological Optical Microscopy Platform, Bio21 Institute, The University of Melbourne, Melbourne, Australia

(ACMCIP Abstract)

Symposium 193

Deciphering Immune Responses Elicited by Four Major Human Diarrheal Pathogens [ETEC, *Shigella*, *Salmonella* and Cholera]: Identification of Immunocorrelates with Practical Vaccine Applications

Convention Center - Room 324/325/326 (Level 300)

Thursday, November 9, 11:15 a.m. - 1 p.m.

Correlates of protective immunity have remained elusive for bacterial enteric pathogens that cause diarrheal disease. While there are extensive immunological data from natural infections, controlled human challenge studies and vaccine studies, these are not comprehensive and very little has been translated into disease-specific biomarkers and immunological responses that can be used as correlates in vaccine efficacy studies. This symposium will be focused on the immune responses and immunological correlates of protection for ETEC, *Shigella*, *Salmonella* and cholera. Subsequent to this review, a panel discussion will compare and contrast immune responses raised against each of these four pathogens with the goal of identifying possible common indicators of protection against enteric pathogens. This data interrogation can also help to identify gaps in our knowledge and abilities to address the unique challenges encountered in the development of vaccines against these four diarrheal disease pathogens of global public health importance.

CHAIR

Sachin Mani
PATH, Washington, DC, United States

Edward T. Ryan
Massachusetts General Hospital, Boston, MA, United States

11:15 a.m.

MUCOSAL IMMUNE RESPONSES AND CORRELATES OF PROTECTION AGAINST ETEC

A. Louis Bourgeois
PATH, Washington, DC, United States

11:35 a.m.

IMMUNE RESPONSES AND CORRELATES OF PROTECTION AGAINST *SHIGELLA*

Daniel Cohen
Tel Aviv University, School of Public Health, Tel Aviv, Israel

11:55 a.m.

IMMUNE RESPONSES AND CORRELATES OF PROTECTION AGAINST CHOLERA

Jason B. Harris
Massachusetts General Hospital, Boston, MA, United States

12:15 a.m.

IMMUNE RESPONSES AND CORRELATES OF PROTECTION AGAINST TYPHOID FEVER

Marcelo B. Szein
University of Maryland School of Medicine, Center for Vaccine Development, Baltimore, MD, United States

12:35 p.m.

PANEL DISCUSSION ON CORRELATES OF VACCINE INDUCED PROTECTION

Marcela Pasetti, Moderator
University of Maryland School of Medicine, Baltimore, MD, United States

Symposium 194

NTDs and Micronutrient Malnutrition: The Dual Burden of Two Neglected Conditions

Convention Center - Room 331/332 (Level 300)

Thursday, November 9, 11:15 a.m. - 1 p.m.

Neglected tropical diseases (NTDs) and micronutrient deficiencies are both widespread diseases of poverty which overlap in communities and in individual hosts. However, the dual burden and confounding effects of these conditions are often overlooked. Many studies investigate the outcomes of either infection or nutrition in isolation; however, ignoring the other condition can have serious implications on the interpretation of study results and subsequent interventions. Not only can micronutrient deficiencies and infection lead to common morbidities such as anemia, synergistic or antagonistic effects could impact disease presentation and even the transmission of infection. Given the overlap of these two neglected conditions and the paucity of data on this subject, the goal of this symposium is to increase the knowledge of the dual burden of infection and micronutrient deficiencies in helminth infection and leprosy. Through presentations by experts in the field of NTDs and nutrition, it will highlight the potential confounding effects on outcomes and morbidity of the two conditions and stress the need to incorporate micronutrient testing into field work on NTDs. With increased awareness and more comprehensive investigations, further work to integrate control of this dual burden in endemic areas will be possible.

CHAIR

Jessica K. Fairley
Emory University, Atlanta, GA, United States

Laila Woc-Colburn
Baylor College of Medicine/National School of Tropical Medicine, Houston, TX, United States

11:15 a.m. INTRODUCTION TO NTDS AND MICRONUTRIENTS

Peter J. Hotez
Baylor College of Medicine, Houston, TX, United States

11:25 a.m. CURRENT KNOWLEDGE ON SOIL-TRANSMITTED HELMINTHS AND IRON METABOLISM

Parminder Suchdev
Emory University, Atlanta, GA, United States

11:45 a.m. VITAMIN D, VITAMIN A AND LEPROSY: IMPLICATIONS FOR MORBIDITY AND TRANSMISSION

Jessica Fairley
Emory University, Atlanta, GA, United States

12:05 p.m. MICRONUTRIENTS AND HELMINTH INFECTION IN CAMBODIAN CHILDREN

Brechje de Gier
National Institute for Public Health and the Environment (RIVM), Bilthoven, Netherlands

12:25 p.m. IMPACT OF INTESTINAL PARASITES ON THE MICROBIOME AND METAGENOMICS IN ARGENTINIAN CHILDREN: CHANGES IN MICRONUTRIENTS

Rojelio Mejia
Baylor College of Medicine, Houston, TX, United States

Scientific Session 195

Schistosomiasis: Immunology and Pathology

Convention Center - Room 337/338 (Level 300)

Thursday, November 9, 11:15 a.m. - 1 p.m.

CHAIR

Andrew DiNardo
Baylor College of Medicine, Houston, TX, United States

Christoph Grevelding
Justus-Liebig-University Giessen, Germany

11:15 a.m. **1998**

ROLE OF THE AMP-ACTIVATED PROTEIN KINASE (AMPK) PATHWAY IN SCHISTOSOME DEVELOPMENT AND HOST- PARASITE INTERACTIONS

Kassandra Hunter, Stephen Davies
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

(ACMCIP Abstract)

11:30 a.m. **1999**

ATYPICAL PHARMACOLOGY OF SCHISTOSOME TRPA1-LIKE ION CHANNELS

Swarna Bais, Corbett T. Berry, Xiaohong Lu, Gordon Ruthel, Bruce D. Freedman, Robert M. Greenberg
University of Pennsylvania, Philadelphia, PA, United States

(ACMCIP Abstract)

11:45 a.m. **2000**

DECODING GONAD-SPECIFIC AND PAIRING-DEPENDENT GENE EXPRESSION IN *SCHISTOSOMA MANSONI* BY COMPARATIVE TRANSCRIPTOMICS DELIVERED MOLECULAR INSIGHTS RELEVANT FOR BASIC AND APPLIED RESEARCH

Christoph G. Grevelding¹, Steffen Hahnel¹, Thomas Quack¹, Nicolas J. Wheeler², Timothy A. Day², Florian Sessler³, Nancy Holroyd⁴, Matthew Berriman⁴, Zhigang Lu¹

¹Justus-Liebig-University Giessen, Germany, Giessen, Germany, ²Iowa State University, Ames, IA, United States, ³Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ⁴Wellcome Trust Sanger Institute, Giessen, United Kingdom

(ACMCIP Abstract)

Noon

2001

THE MICROBIOME IN THE COURSE OF URINARY SCHISTOSOMIASIS AND INDUCED PATHOLOGIES

Adewale Adebayo¹, Mangesh Survayanshi², Shrinkath Bhute², Raphael Isokpehi³, Atinuke Agunloye¹, Chiaka Anumudu¹, Yogesh Shouche²

¹University of Ibadan, Ibadan, Nigeria, ²National Centre for Cell Science, Pune, India, ³Bethune Cookman University, Daytona Beach, FL, United States

(ACMCIP Abstract)

12:15 p.m. **2002**

HELMINTHS INDUCE PERSISTENT EPIGENETICALLY- MEDIATED PERTURBATIONS IN THE TUBERCULOSIS IMMUNE RESPONSE

Andrew DiNardo¹, Godwin Mtetwa², Temhlanga Mndzebele², Gugu Maphalala³, Tomoki Nishiguchi¹, Rojelio A. Mejia¹, Alexander Kay², Emily M. Mace¹, George Makedonas¹, Anna Mandalakas¹

¹Baylor College of Medicine, Houston, TX, United States, ²Baylor-Swaziland Children's Foundation, Mbabane, Swaziland, ³Swaziland National Tuberculosis Laboratory, Mbabane, Swaziland

(ACMCIP Abstract)

12:30 p.m. **2003**

DICHOTOMOUS EFFECTS OF IL-4 AND IL-10 ON HUMAN SCHISTOSOMIASIS IMMUNE RESPONSES

Huldah Sang¹, Rachael Hamilton², Isaac Onkanga¹, Bartholomew Ondigo¹, Thomas Schneider², Maurice Odier¹, Pauline Mwinzi¹, Lisa Ganley-Leal²

¹Kenya Medical Research Institute, Kisumu, Kenya, ²STC - Biologics, Cambridge, MA, United States

(ACMCIP Abstract)

12:45 p.m.

2004

DEVELOPMENT OF AN INTERLEUKIN-4-INDUCING PRINCIPLE OF *SCHISTOSOMA MANSONI* EGGS (IPSE)-SPECIFIC PCR PLATFORM TO QUANTIFY EGG BURDENS ASSOCIATED WITH SCHISTOSOMIASIS

Dannah Farah¹, Evaristus Mbanefo², Michael Hsieh³

¹The George Washington University School of Medicine and Health Sciences, Washington, DC, United States, ²Biomedical Research Institute, Rockville, MD, United States, ³Children's National Medical Center, Washington, DC, United States

Symposium 196

Preparing for the Next Epidemic through Military and Civilian Partnerships in West Africa

Convention Center - Room 339/340 (Level 300)

Thursday, November 9, 11:15 a.m. - 1 p.m.

The West African Ebola outbreak in 2014-2015 highlighted gaps in the global public health response and a lack of countermeasures. To help address this, the U.S. Department of Defense (DoD) invested in a strategic initiative called the Joint West Africa Research Group (JWARG) to leverage existing research platforms and relationships to improve bio-preparedness in the region. This symposium aims to highlight the unique role JWARG plays in capacity building and health system strengthening in the West African sub-region. The session is centered around perspectives of West African scientists and features early career investigators. The first panel will highlight capacity-building activities through partnerships. Speakers from the U.S., Nigeria, Ghana and Liberia will describe efforts to improve diagnostics and clinical surveillance of infectious disease leveraging the network. From building wells for clean water supply to getting a microbiology lab running and completing the first blood culture in Liberia for several years, speakers will highlight challenges faced. The second panel will introduce the research agenda around emerging infectious diseases through collaborative efforts among partner laboratory and research organizations. Speakers will discuss efforts around site and protocol development to begin surveillance studies and vaccine trials. The regulatory and ethical framework around research studies in this setting will be addressed.

CHAIR

Abiola Fasina
Henry Jackson Foundation/U.S. Military HIV Research Program, Bethesda, MD, United States

Julie Ake
Walter Reed Army Institute of Research/U.S. Military HIV Research Program, Bethesda, MD, United States

11:15 a.m.

INTRODUCTION

Julie Ake
U.S. Military HIV Research Program, Walter Reed Army Institute of Research, Bethesda, MD, United States

11:20 a.m.

PANEL I: BUILDING CAPABILITY THROUGH PARTNERSHIPS

Kayla G. Barnes, Moderator
Broad Institute of Massachusetts Institute of Technology and Harvard, Cambridge, MA, United States

Brigadier General Nurudeen Ayoola Hussein
Nigerian Ministry of Defense, Abuja, Nigeria

Fatorma Bolay
Liberia Institute of Medical Research, Monrovia, Liberia

Jefferson Sibley
Phebe Hospital and School of Nursing, Gbarnga City, Liberia

Michelle Rozo
Austere Environments Consortium for Enhanced Sepsis Outcomes (ACESO), Fort Detrick, MD, United States

David Brett-Major
Henry M. Jackson Foundation/U.S. Military HIV Research Program, Bethesda, MD, United States

12:05 p.m.

PANEL 2: ADVANCING THE EMERGING INFECTIOUS DISEASE (EID) RESEARCH AGENDA IN WEST AFRICA

Andrew Letizia, Moderator
U.S. Navy Medical Research Unit - 3 Ghana Detachment, Accra, Ghana

George Oduro
Komfo Anokye Teaching Hospital, Kumasi, Ghana

Onikepe Folarin
African Center of Excellence for Genomics of Infectious Disease, Ede, Nigeria

Edward Nyarko
37th Military Hospital, Accra, Ghana

Senate Amusu
Walter Reed Program - Nigeria, Nigeria, Nigeria

Eugene Richardson
Harvard Medical School, Boston, MA, United States

Symposium 197

Use of Seroepidemiology to Guide Public Health Action

Convention Center - Room 341/342 (Level 300)

Thursday, November 9, 11:15 a.m. - 1 p.m.

The detection and quantitation of immune responses in serum (serosurveillance) is increasingly recognized as an important public health and scientific tool to aid in estimation of pathogen exposure and disease risk. Serosurveys provide measures of immunological encounters between individuals and pathogen, and overcome the limitations of clinical and microbial surveillance. Serosurveys have been used as an epidemiological tool to help estimate risk and exposure to various pathogens for public health decision-making. For example, seroepidemiological methods have been proposed and utilized as tools to guide vaccination strategies for several vaccine-preventable diseases, as well as to target control interventions. Recent advances in computational modeling and serologic assay technologies have increased the potential of seroepidemiology as a tool to guide public health action. This symposium has assembled a group of speakers who have experience with seroepidemiologic applications in a variety of neglected tropical diseases (NTDs). Three speakers will highlight cutting-edge research on the use of seroepidemiology for efforts against 1) malaria, 2) cholera, and 3) helminths and other enteric infections. The final speaker will present an overview of the current knowledge gaps and research opportunities in seroepidemiology. A panel discussion with audience participation will follow these talks.

CHAIR

Daniel T. Leung
University of Utah, Salt Lake City, UT, United States

Isabel Rodríguez-Barraquer
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:15 a.m.
USE OF CROSS-SECTIONAL SEROLOGIC DATA TO ESTIMATE RECENT EXPOSURE TO *VIBRIO CHOLERAE*

Andrew Azman
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:35 a.m.
TRACKING MALARIA BY ITS SHADOWS: SEROLOGICAL TOOLS TO CHARACTERIZE MALARIA TRANSMISSION

Isabel Rodríguez-Barraquer
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:55 a.m.
MULTIPLEX SEROLOGICAL ASSAYS PROVIDE RICH INFORMATION TO MEASURE CHANGES IN EXPOSURE, HETEROGENEITY OF TRANSMISSION AND CONCURRENT INFECTION OF INFECTIOUS DISEASES: EXAMPLES FROM HELMINTHS AND VIRAL, BACTERIAL AND PROTOZOAN ENTERIC PATHOGENS

Benjamin Arnold
University of California Berkeley, Berkeley, CA, United States

12:15 p.m.
EPIDEMIOLOGICAL DARK MATTER: USING SEROLOGY TO PROBE THE LANDSCAPE OF SUSCEPTIBILITY IN GLOBAL HEALTH

Jessica Metcalf
Princeton University, Princeton, NJ, United States

Thursday, November 9, 1 p.m.

ASTMH 66th Annual Meeting Adjourns

See you next year at the Sheraton New Orleans and New Orleans Marriott in New Orleans, Louisiana!

Presenter Index I: Plenary, Symposium, Meet the Professors, Mid-Day and Special Sessions (Speakers and Session Chairs)

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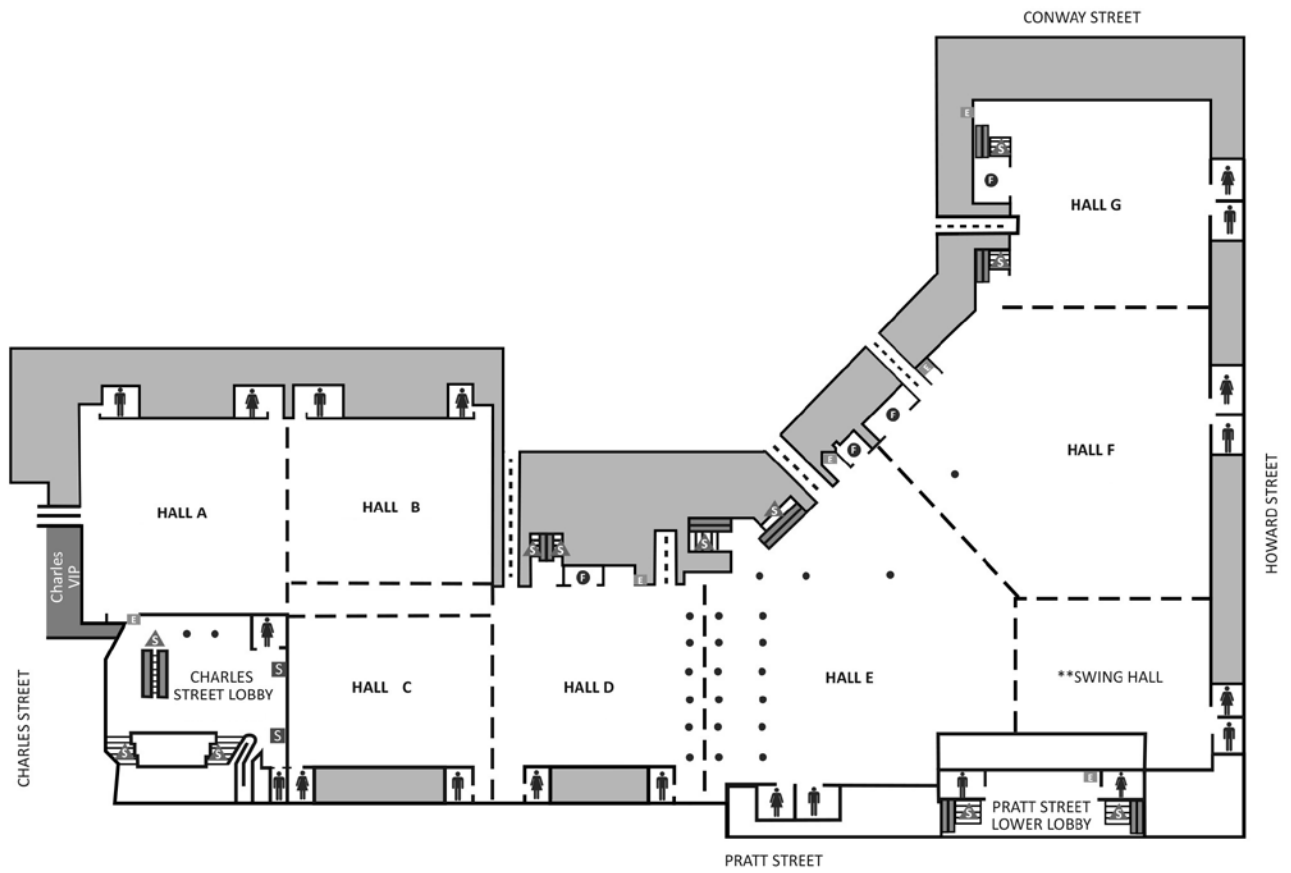
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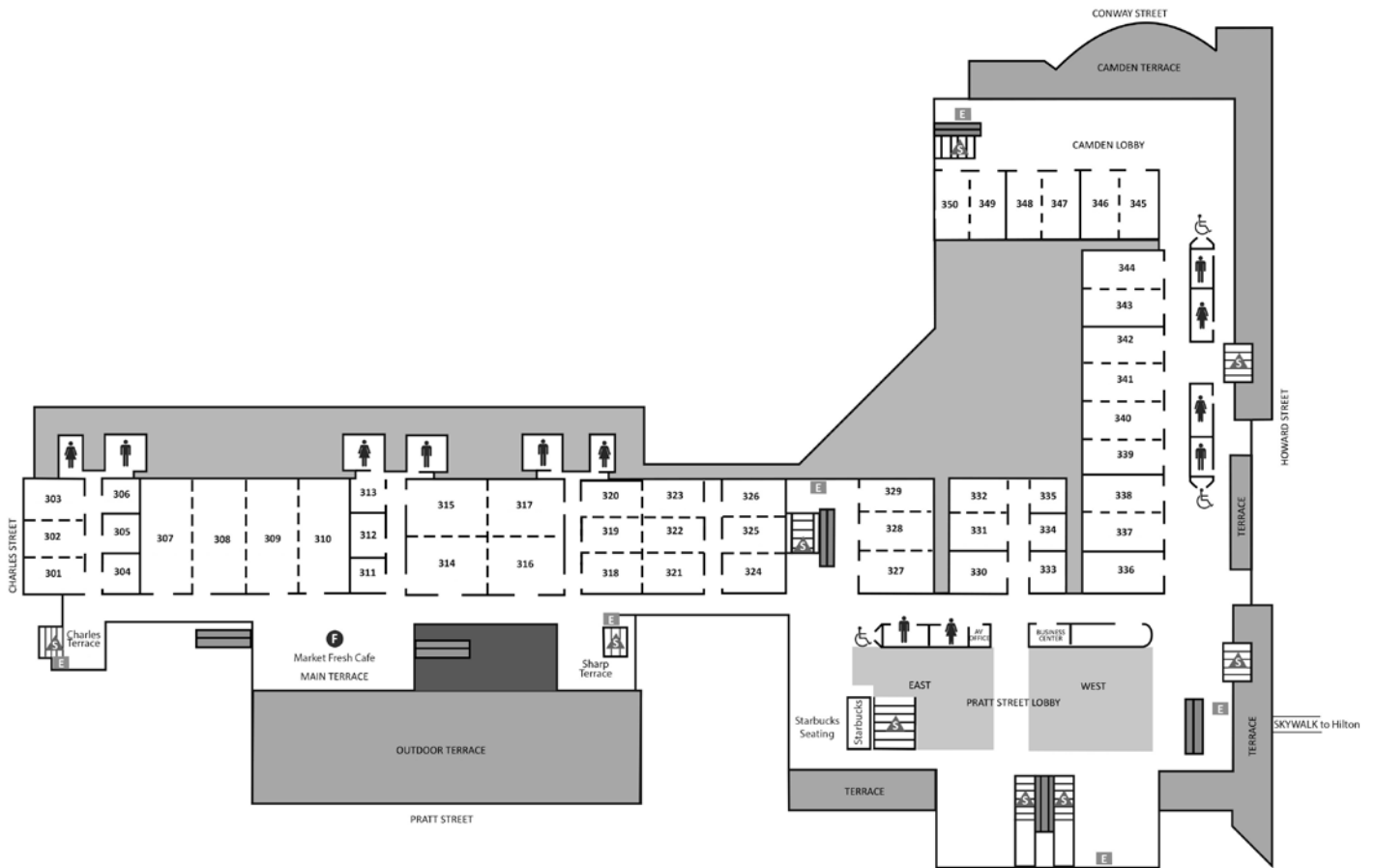


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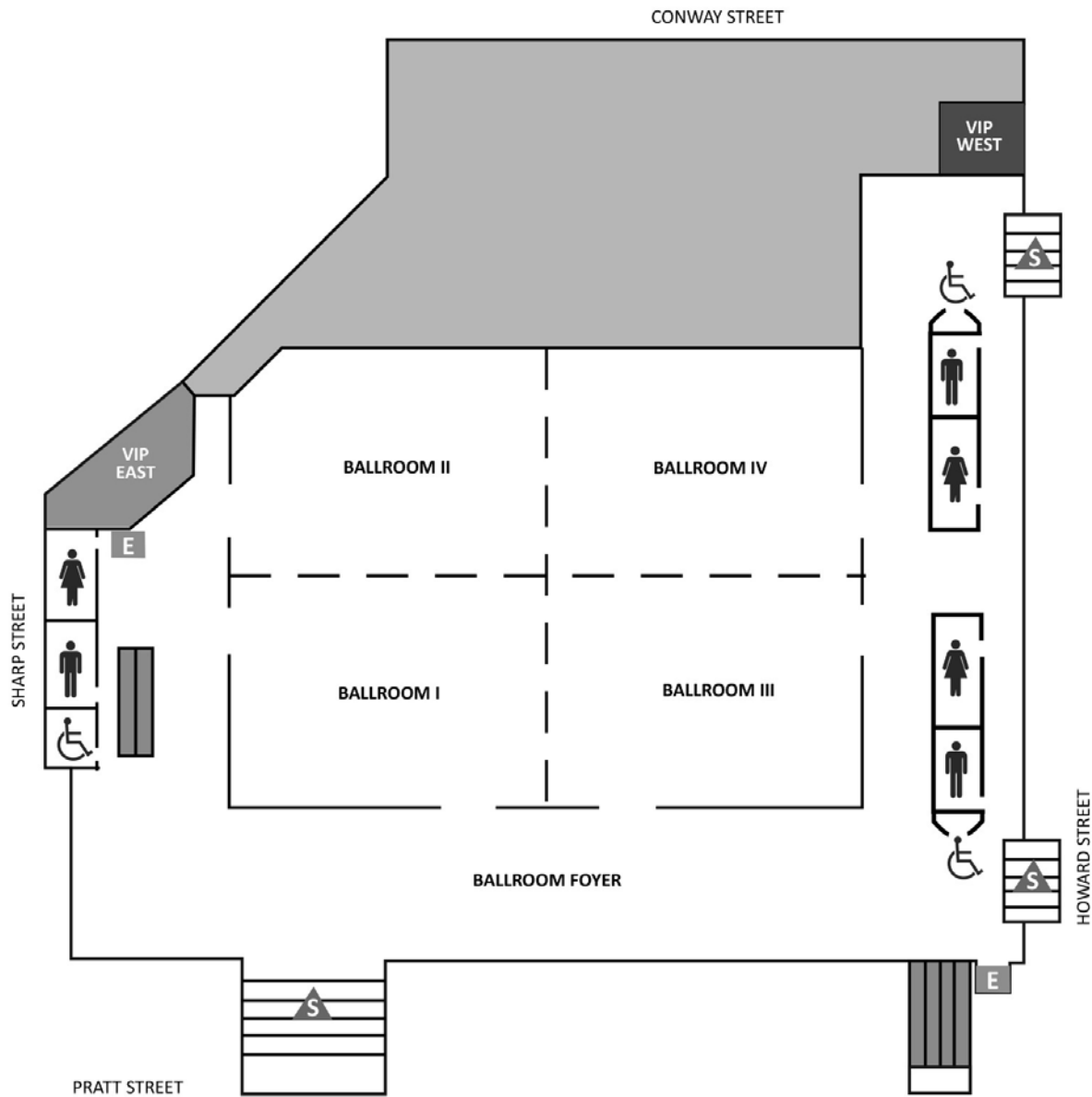
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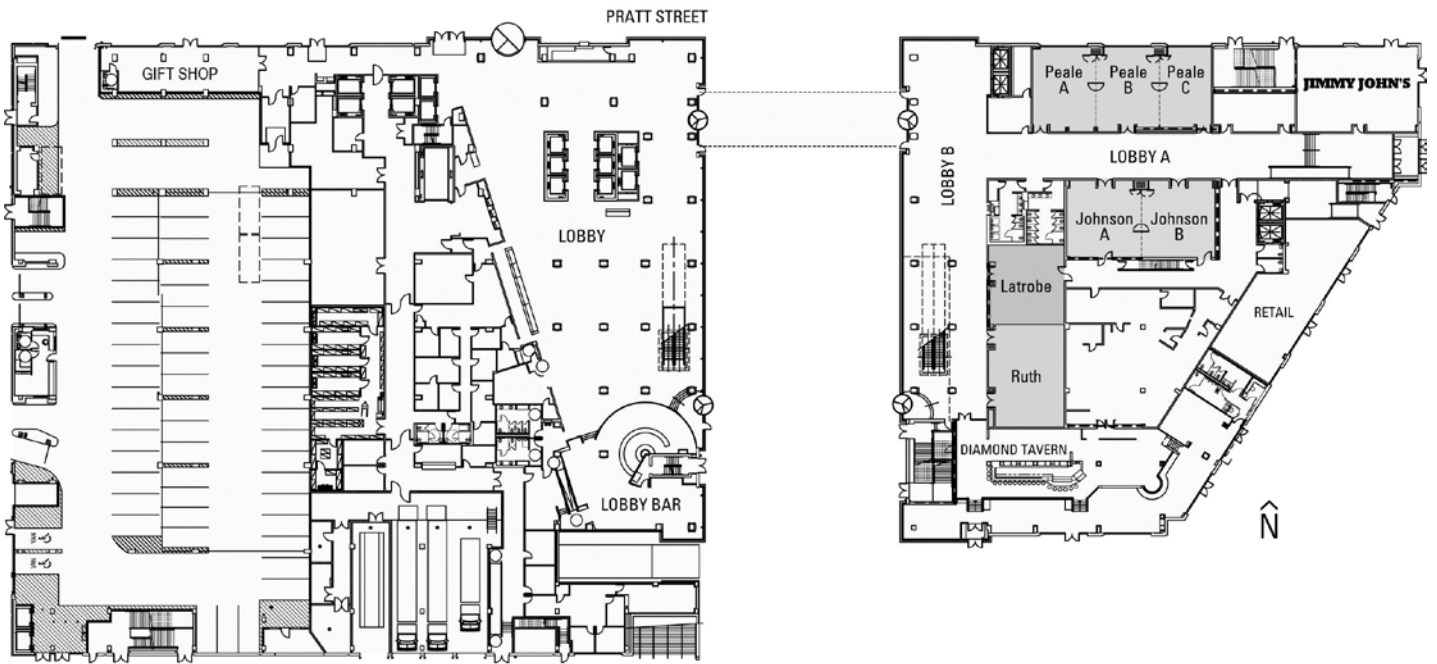


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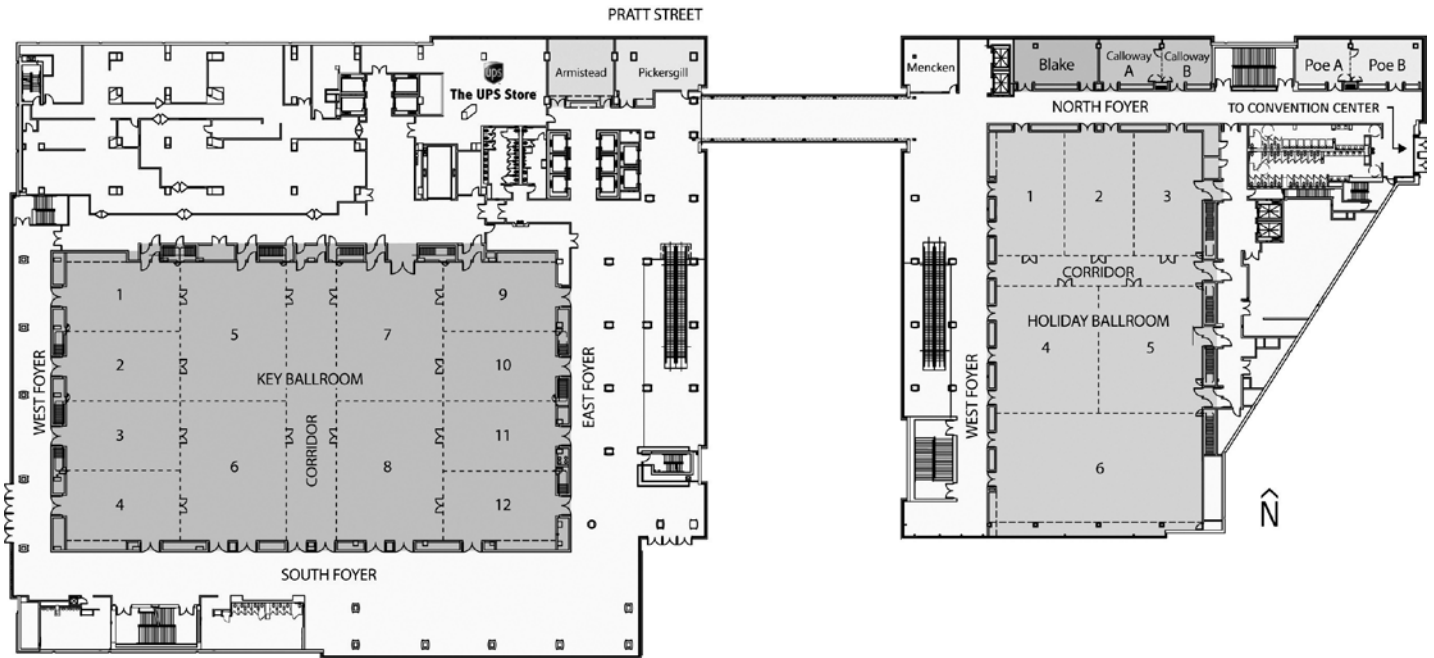
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Second Floor



Meeting Rooms

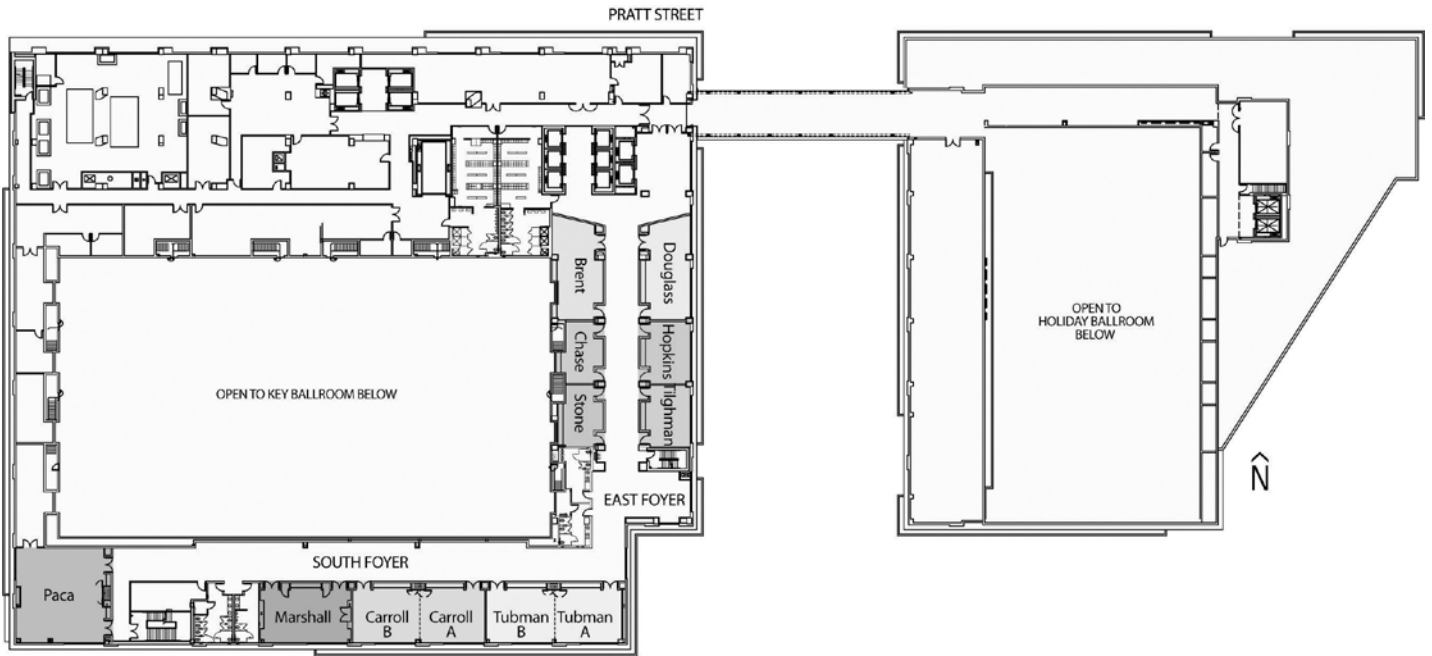
Second Floor – West Building

- Armistead
- Key Ballroom 1
- Key Ballroom 2
- Key Ballroom 3
- Key Ballroom 4
- Key Ballroom 5
- Key Ballroom 6
- Key Ballroom 7
- Key Ballroom 8
- Key Ballroom 9
- Key Ballroom 10
- Key Ballroom 11
- Key Ballroom 12
- Pickersgill

Second Floor – East Building

- Skywalk to Baltimore Convention Center
- Blake
- Calloway A
- Calloway B
- Holiday Ballroom 1
- Holiday Ballroom 2
- Holiday Ballroom 3
- Holiday Ballroom 4
- Holiday Ballroom 5
- Holiday Ballroom 6
- Mencken (Lactation Room)

Third Floor



Meeting Rooms

Third Floor – West Building

- Brent
- Carroll A
- Carroll B
- Chase
- Douglass
- Hopkins
- Marshall
- Paca
- Stone
- Tilghman
- Tubman A
- Tubman B

ASTMH



AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
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MARK YOUR CALENDAR!



66th Annual Meeting

November 5–9, 2017 (Sunday through Thursday)

*The Baltimore Convention Center
Baltimore, Maryland USA*

67th Annual Meeting

October 28 – November 1, 2018 (Sunday through Thursday)

*Sheraton New Orleans and New Orleans Marriott
New Orleans, Louisiana USA*

68th Annual Meeting

November 20–24, 2019 (Wednesday through Sunday)

*Gaylord National Resort and Convention Center
National Harbor, Maryland USA (adjacent to Washington, DC)*

69th Annual Meeting

November 15-19, 2020 (Sunday through Wednesday)

*Metro Toronto Convention Centre
Toronto, Ontario, Canada*

70th Annual Meeting

November 17-21, 2021

*Gaylord National Resort and Convention Center
National Harbor, Maryland USA (adjacent to Washington, DC)*



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