



THE AMERICAN JOURNAL OF
*Tropical Medicine
and Hygiene*

Official Journal of the American Society of Tropical Medicine and Hygiene

Volume 77

November 2007

Number 5

Final Program

American Society of Tropical Medicine and Hygiene
56th Annual Meeting



November 4–8, 2007

Philadelphia Marriott Downtown

Philadelphia, Pennsylvania USA

Supplement to

**The American Journal of
Tropical Medicine and Hygiene**

ASTMH Thanks the 56th Annual Meeting Supporters

Bill & Melinda Gates Foundation

The Burroughs Wellcome Fund

Companion Animal Parasite Council

GlaxoSmithKline

**International Association for Medical
Assistance to Travelers**

**National Institutes of Health/
National Institute of Allergy and Infectious Diseases**

Novartis Pharma AG.

sanofi aventis

Sigma-Tau Pharmaceuticals, Inc.

TechLab Inc.

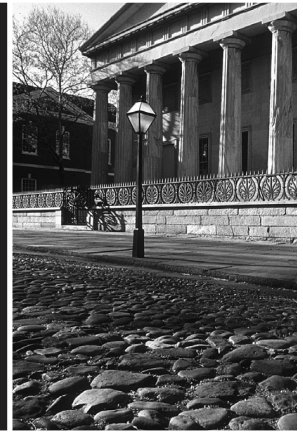
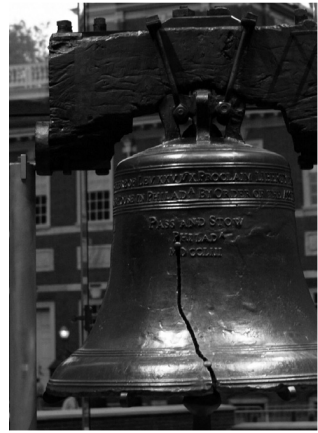
www.astmh.org




American Society of Tropical Medicine and Hygiene



See the ASTMH 56th Annual Meeting
Abstract Book, included with your
registration packet, to view the full text of
abstracts presented at the annual meeting.



November 4–8, 2007
Philadelphia Marriott Downtown
Philadelphia, Pennsylvania USA

The official seal of the American Society of Tropical Medicine and Hygiene, featuring a central figure holding a staff with a snake, surrounded by the text "THE AMERICAN SOCIETY OF TROPICAL MEDICINE AND HYGIENE".

Annual Meeting Supporters2
Schedule-at-a-Glance6
Program Changes6
Schedule Grid8
Affiliate Meeting Schedule17
ASTMH Council, Committee and Subgroup Meetings19
Officers and Councilors20
Scientific Program Committee21
ASTMH Committees and Subgroups22
ASTMH Headquarters23
Affiliate Members24
Travel Awards24
Continuing Medical Education25
Registration Hours25
Messages and Emergency Calls25
Exhibits26
Employment Opportunities26
Session Audio Recording27
Late Breaker Abstracts27
Meet the Professors27
Student Reception and Other Student/Trainee Activities28
Poster Sessions30
Speaker Ready Room and Audio-Visual Guidelines30
Future Annual Meeting Dates31
Video Presentations32
Detailed Program34
Abstract Author Index213
Speaker and Session Chair Index234
Membership Application237
Meeting Room Floor Plan238

About the American Society of Tropical Medicine and Hygiene (ASTMH)

ASTMH is the principal organization in the United States representing scientists, clinicians and others with interests in the prevention and control of tropical diseases and diseases of global health import. The interests of the society are in tropical medicine, including the varied parasitic and viral diseases of the tropics, as well as other infectious diseases, such as enteric and mycobacterial infections. ASTMH members include those with clinical, epidemiological, programmatic and basic biochemical, immunologic and molecular approaches to both diseases and pathogens. Within the society are various active subgroups with specific interests, such as medical entomology, arbovirology, molecular parasitology and clinical tropical diseases. The mission of ASTMH is to promote global health by the prevention and control of tropical diseases through research and education.

Join the American Society of Tropical Medicine and Hygiene

We invite you to join ASTMH and benefit from membership in the premier international organization for scientists involved in tropical medicine and global health. ASTMH provides a forum for sharing scientific advances, exchanging ideas, fostering new research and providing professional education. See the membership application on page 233.

Questions

If you have any questions regarding the program or registration, visit the ASTMH registration desk in the Grand Ballroom Foyer.

Schedule-at-a-Glance

Program Changes

The time and/or location of any activity or session is subject to change. Notices of program changes will be posted in the ASTMH registration area. A Program Update is included in your registration packet.

Friday, November 2

4 p.m. – 6 p.m. Pre-Meeting Course Registration

Saturday, November 3

7 a.m. – 1:30 p.m. Pre-Meeting Course Registration
 8:30 a.m. – 4:45 p.m. Pre-Meeting Course: Systems Biology: Approaches to Understanding Infectious Disease
 Noon – 5 p.m. Speaker Ready Room
 Noon – 5 p.m. Pre-Meeting Course: Chagas Disease (American Trypanosomiasis): No Longer an Exotic Disease

Sunday, November 4

7 a.m. – 6 p.m. Speaker Ready Room
 7:30 a.m. – 3 p.m. Pre-Meeting Course: Chagas Disease (American Trypanosomiasis): No Longer an Exotic Disease
 8 a.m. – 3:30 p.m. ASTMH Council Meeting
 10:30 a.m. – 6 p.m. Registration
 11 a.m. – 3:30 p.m. Young Investigator Award Presentations
 11 a.m. – Noon ACAV SIE Subcommittee Meeting
 Noon – 2 p.m. ACAV SIRACA Subcommittee Meeting
 1 p.m. – 6 p.m. Cyber Café
 2 p.m. – 3:30 p.m. ACAV SALS Subcommittee Meeting
 3:30 p.m. – 5 p.m. Young Investigator Award Committee Meeting
 3:30 p.m. – 5 p.m. ACME Council Meeting
 3:30 p.m. – 5 p.m. ACMCIP Council Meeting
 3:30 p.m. – 5:30 p.m. ACAV Council Meeting
 3:30 p.m. – 5:30 p.m. Clinical Group Council Meeting
 4 p.m. – 5 p.m. Student Reception
 5:30 p.m. – 7:30 p.m. Opening Plenary Session and Awards Ceremony
 7:30 p.m. – 9:30 p.m. Opening Reception
 7:30 p.m. – 9:30 p.m. Exhibits Open

Monday, November 5

7 a.m. – 5 p.m. Registration
 7 a.m. – 5 p.m. Cyber Café
 7 a.m. – 6 p.m. Speaker Ready Room
 7 a.m. – 8 a.m. ASTMH Public Policy and Advocacy Leadership Committee Meeting
 7 a.m. – 8 a.m. Diploma Course Directors Meeting
 7 a.m. – 8 a.m. Meet the Professors: Fireside Chat
 8 a.m. – 9:45 a.m. Scientific Sessions/Symposia
 9:30 a.m. – 10:30 a.m. Exhibits Open
 9:45 a.m. – 10:15 a.m. Break
 9:45 a.m. – 10:15 p.m. Poster Session A Setup
 10:15 a.m. – Noon Scientific Sessions/Symposia
 10:15 a.m. – Noon Poster Session A Viewing
 Noon – 1:30 p.m. Exhibits Open/Light Lunch
 Noon – 1:30 p.m. Poster Session A Presentations (#57–299)
 Noon – 1:30 p.m. Clinical Group Education Curriculum Committee Meeting

12:15 p.m. – 1:15 p.m. Meet the Professors and Mid-Day Sessions
 12:15 p.m. – 1:15 p.m. Certificate Exam Executive Committee Meeting
 1:30 p.m. – 3:15 p.m. Scientific Sessions/Symposia
 1:30 p.m. – 7 p.m. Poster Session A Viewing
 3 p.m. – 4 p.m. Exhibits Open
 3:15 p.m. – 3:45 p.m. Break
 3:45 p.m. – 5:30 p.m. Scientific Sessions/Symposia
 6 p.m. – 6:45 p.m. Plenary Session II: Soper Lecture
 7 p.m. – 8 p.m. Poster Session A Dismantle
 7 p.m. – 9 p.m. Late Breakers in Basic Science/Molecular Biology
 7 p.m. – 9 p.m. Late Breakers in Clinical Tropical Medicine

Tuesday, November 6

7 a.m. – 5 p.m. Registration
 7 a.m. – 5 p.m. Cyber Café
 7 a.m. – 6 p.m. Speaker Ready Room
 7 a.m. – 8 a.m. Journal Editorial Board Meeting
 7 a.m. – 8 a.m. Clinical Group Past Presidents Meeting
 7 a.m. – 8 a.m. Education Committee Meeting
 8 a.m. – 9:45 a.m. Scientific Sessions/Symposia
 9:30 a.m. – 10:30 a.m. Exhibits Open
 9:45 a.m. – 10:15 a.m. Poster Session B Setup
 9:45 a.m. – 10:15 a.m. Break
 10:15 a.m. – Noon Scientific Sessions/Symposia
 10:15 a.m. – Noon Poster Session B Viewing (#391–620)
 Noon – 3 p.m. Exhibits Open
 Noon – 1:30 p.m. Poster Session B Presentations/Light Lunch
 12:15 p.m. – 1:15 p.m. Meet the Professors and Mid-Day Sessions
 12:15 p.m. – 1:15 p.m. CME/Courses Committee Meeting
 1:30 p.m. – 7 p.m. Poster Session B Viewing
 1:30 p.m. – 2:15 p.m. Plenary Session III: Commemorative Fund Lecture
 2:15 p.m. – 2:45 p.m. Break
 2:45 p.m. – 4:30 p.m. Scientific Sessions/Symposia
 5 p.m. – 6:45 p.m. Scientific Sessions/Symposia
 7 p.m. – 8 p.m. Poster Session B Dismantle
 7:15 p.m. – 9 p.m. Evening Sessions

Wednesday, November 7

7 a.m. – 5 p.m. Registration
 7 a.m. – 5 p.m. Cyber Café
 7 a.m. – 6 p.m. Speaker Ready Room
 7 a.m. – 8 a.m. ASTMH Past Presidents Meeting
 7 a.m. – 8 a.m. Web Site Committee Meeting
 7 a.m. – 8 a.m. Scientific Program Committee Meeting
 8 a.m. – 9:45 a.m. Scientific Sessions/Symposia
 9:30 a.m. – 10:30 a.m. Exhibits
 9:45 a.m. – 10:15 a.m. Poster Session C Setup
 9:45 a.m. – 10:15 a.m. Break

Schedule-at-a-Glance

Program Changes

The time and/or location of any activity or session is subject to change. Notices of program changes will be posted in the ASTMH registration area. A Program Update is included in your registration packet.

10:15 a.m. – Noon	Poster Session C Viewing
10:15 a.m. – Noon	Scientific Sessions/Symposia
Noon – 2:30 p.m.	Exhibits Open
Noon – 1:30 p.m.	Poster Session C Presentations (#711–933)/ Light Lunch
Noon – 2 p.m.	Burroughs Wellcome Fund – ASTMH Fellowship Committee Meeting
12:15 p.m. – 1:15 p.m.	Meet the Professors and Mid-Day Sessions
12:15 p.m. – 1:15 p.m.	Certificate Exam Committee Meeting
1:30 p.m. – 3:15 p.m.	Scientific Sessions/Symposia
1:30 p.m. – 7 p.m.	Poster Session C Viewing
3:15 p.m. – 3:45 p.m.	Break
3:45 p.m. – 5:30 p.m.	Scientific Sessions/Symposia
6 p.m. – 7:30 p.m.	Plenary Session IV: Presidential Address and Annual Business Meeting
7 p.m. – 8 p.m.	Poster Session C Dismantle

Thursday, November 8

7 a.m. – 10:30 a.m.	Registration
7 a.m. – 10:30 a.m.	Cyber Café
7 a.m. – Noon	Speaker Ready Room
7:30 a.m. – 9:30 a.m.	ASTMH Council Meeting
8 a.m. – 9:45 a.m.	Scientific Sessions/Symposia
9:45 a.m. – 10:15 a.m.	Break
9:45 a.m. – Noon	Scientific Sessions/Symposia
Noon	Meeting Adjourns

Schedule-at-a-Glance

Sunday, November 4

	Salon E	Salon F	Salon G	Salon H	Independence I	Independence II	Independence III	Liberty A	
7:00 a.m.									
7:15 a.m.									
7:30 a.m.	Clinical Pre-Meeting Course								
7:45 a.m.									
8:00 a.m.									
8:15 a.m.									
8:30 a.m.									
8:45 a.m.									
9:00 a.m.									
9:15 a.m.									
9:30 a.m.									
9:45 a.m.									
10:00 a.m.									
10:15 a.m.									
10:30 a.m.									
10:45 a.m.									
11:00 a.m.						Young Investigator Award A p. 36	Young Investigator Award B p. 38	Young Investigator Award C p. 39	Young Investigator Award D p. 41
11:15 a.m.									
11:30 a.m.									
11:45 a.m.									
12:00 p.m.									
12:15 p.m.									
12:30 p.m.									
12:45 p.m.									
1:00 p.m.									
1:15 p.m.									
1:30 p.m.									
1:45 p.m.									
2:00 p.m.									
2:15 p.m.									
2:30 p.m.									
2:45 p.m.									
3:00 p.m.									
3:15 p.m.									
3:30 p.m.									
3:45 p.m.				Young Investigator Committee Meeting					
4:00 p.m.									
4:15 p.m.									
4:30 p.m.									
4:45 p.m.									
5:00 p.m.									
5:15 p.m.									
5:30 p.m.	Plenary I Opening Lecture Society Awards p. 45								
5:45 p.m.									
6:00 p.m.									
6:15 p.m.									
6:30 p.m.									
6:45 p.m.									
7:00 p.m.									
7:15 p.m.									
7:30 p.m.									
7:45 p.m.									
8:00 p.m.									
8:15 p.m.									
8:30 p.m.									
8:45 p.m.									
9:00 p.m.									
9:15 p.m.									
9:30 p.m.									
9:45 p.m.									
10:00 p.m.									
10:15 p.m.									

Schedule-at-a-Glance

Sunday, November 4 (continued)

	Liberty C	Porthole Room Across Bridge	Room 301	Rooms 305-306	Room 309	Room 362	Room 405		
7:00 a.m.									
7:15 a.m.									
7:30 a.m.									
7:45 a.m.				ASTMH Council Meeting					
8:00 a.m.									
8:15 a.m.									
8:30 a.m.									
8:45 a.m.									
9:00 a.m.									
9:15 a.m.									
9:30 a.m.									
9:45 a.m.									
10:00 a.m.									
10:15 a.m.									
10:30 a.m.									
10:45 a.m.									
11:00 a.m.	Young Investigator Award E p. 43					ACAV SIE			
11:15 a.m.									
11:30 a.m.									
11:45 a.m.									
12:00 p.m.						ACAV SIRACA			
12:15 p.m.									
12:30 p.m.									
12:45 p.m.									
1:00 p.m.									
1:15 p.m.									
1:30 p.m.									
1:45 p.m.									
2:00 p.m.						ACAV SALS			
2:15 p.m.									
2:30 p.m.									
2:45 p.m.									
3:00 p.m.									
3:15 p.m.									
3:30 p.m.					ACAV Council Meeting	ACMCIP Council Meeting	Clinical Group Council		
3:45 p.m.			ACME Council Meeting						
4:00 p.m.		Student Reception							
4:15 p.m.									
4:30 p.m.									
4:45 p.m.									
5:00 p.m.									
5:15 p.m.									
5:30 p.m.									
5:45 p.m.									
6:00 p.m.									
6:15 p.m.									
6:30 p.m.									
6:45 p.m.									
7:00 p.m.									
7:15 p.m.									
7:30 p.m.									
7:45 p.m.									
8:00 p.m.									
8:15 p.m.									
8:30 p.m.									
8:45 p.m.									
9:00 p.m.									
9:15 p.m.									
9:30 p.m.									
9:45 p.m.									
10:00 p.m.									
10:15 p.m.									

Schedule-at-a-Glance

Monday, November 5

	Franklin Hall B	Franklin Hall B	Salon AB	Salon CD	Salon E	Salon F	Salon G	Salon H
7:00 a.m.							2 Meet the Profs A	
7:15 a.m.							Career Dev/Clin	
7:30 a.m.							Trop Med	
7:45 a.m.							p. 46	
8:00 a.m.								
8:15 a.m.			Symposium 2A	Symposium 3	Symposium 13	Symposium 5	Scientific Session 6	Symposium 7
8:30 a.m.			-----	-----	-----	-----	-----	-----
8:45 a.m.			<i>Artemether Lumefantrine Peds</i>	<i>Vector Borne Surveillance and Control</i>	<i>Ethics Research</i>	<i>ACMCIP Host Pathogen Genomics</i>	<i>Flavivirus I Dengue I</i>	<i>NTDs</i>
9:00 a.m.			p. 46	p. 47	p. 52	p. 47	p. 48	p. 48
9:15 a.m.								
9:30 a.m.	Exhibits Open							
9:45 a.m.	Coffee Break 9:30-10:30 a.m.	Poster Session A Set-Up						
10:00 a.m.								
10:15 a.m.			Symposium 14	Symposium 15	Symposium 16	Symposium 17	Scientific Session 18	Symposium 19
10:30 a.m.			-----	-----	-----	-----	-----	-----
10:45 a.m.		Poster Session A Viewing	<i>Malaria Genetic Diversity</i>	<i>Vectors and Bacterial EIDs</i>	<i>Trypanosomatid Host-Parasite</i>	<i>Vivax Malaria</i>	<i>Flavivirus II Dengue II</i>	<i>Scaling up ACTs</i>
11:00 a.m.			p. 53	p. 53	p. 54	p. 54	p. 54	p. 55
11:15 a.m.								
11:30 a.m.								
11:45 a.m.								
12:00 p.m.	Exhibit Hall Open	Poster Session A Light Lunch p. 61						
12:15 p.m.			27 Mid-Day Migrant Health	28 Mid-Day Travel Med: Chronic Conditions				29 Career Development Global Health
12:30 p.m.			p. 83	p. 83				p. 84
12:45 p.m.								
1:00 p.m.								
1:15 p.m.								
1:30 p.m.			Symposium 33	Symposium 34	Scientific Session 35	Symposium 36	Symposium 37	Symposium 38
1:45 p.m.			-----	-----	-----	-----	-----	-----
2:00 p.m.		Poster Session A Viewing	<i>Dx in Tropics</i>	<i>Trypanosomatid Parasite Bio</i>	<i>Malaria Immunology I</i>	<i>ACME I</i>	<i>Chagas</i>	<i>Trachoma</i>
2:15 p.m.			p. 85	p. 86	p. 86	p. 87	p. 88	p. 88
2:30 p.m.								
2:45 p.m.								
3:00 p.m.	Exhibits Open							
3:15 p.m.	Coffee Break 3:15-3:45 p.m.							
3:30 p.m.								
3:45 p.m.			Symposium 43	Scientific Session 44	Scientific Session 45	Symposium 46		
4:00 p.m.			-----	-----	-----	-----		
4:15 p.m.			<i>M(X)DR TB</i>	<i>Kinetoplastida I: Immuno Mol Bio</i>	<i>Malaria Immunology II</i>	<i>ACME II</i>		
4:30 p.m.			p. 91	p. 91	p. 92	p. 93		
4:45 p.m.								
5:00 p.m.								
5:15 p.m.								
5:30 p.m.								
5:45 p.m.								
6:00 p.m.								
6:15 p.m.								
6:30 p.m.								
6:45 p.m.								
7:00 p.m.								
7:15 p.m.								
7:30 p.m.		Poster Session A Dismantle	Late Breakers Clinical Tropical Medicine	Late Breakers Basic Science Molecular Bio				
7:45 p.m.			p. 97	p. 97				
8:00 p.m.								
8:15 p.m.								
8:30 p.m.								
8:45 p.m.								
9:00 p.m.								
9:15 p.m.								
9:30 p.m.								
9:45 p.m.								
10:00 p.m.								
10:15 p.m.								

Schedule-at-a-Glance

Monday, November 5 (continued)

	Salon IJ	Salon KL	Liberty AB	Liberty C	Franklin 1	Franklin 2	Franklin 3/4
7:00 a.m.							
7:15 a.m.							
7:30 a.m.							
7:45 a.m.							
8:00 a.m.	Symposium 8	Symposium 9	Symposium 10	Scientific Session 11		Scientific Session 12	
8:15 a.m.	-----	-----	-----	-----		-----	
8:30 a.m.	<i>HIV in Tropics</i>	<i>Cystic Echinococcosis</i>	<i>Tropical Med and Media</i>	<i>Malaria Vaccines I</i>		<i>Bacteriology I Diarrhea Enteric Infections</i>	
8:45 a.m.	p. 49	p. 49	p. 49	p. 50		p. 51	
9:00 a.m.							
9:15 a.m.							
9:30 a.m.							
9:45 a.m.							
10:00 a.m.							
10:15 a.m.	Symposium 20	Scientific Session 21	Scientific Session 22	Scientific Session 23	Symposium 24	Scientific Session 25	Symposium 26
10:30 a.m.	-----	-----	-----	-----	-----	-----	-----
10:45 a.m.	<i>Schistosoma Japonica</i>	<i>Helminths I Cestodes</i>	<i>Malaria Vector Bio</i>	<i>Malaria Vaccines II</i>	<i>Filarial Genomics</i>	<i>Bacteriology II H₂O, Treatment and Diarrhea</i>	<i>Research, Ethics and Obligations</i>
11:00 a.m.	p. 56	p. 56	p. 57	p. 58	p. 59	p. 60	p. 60
11:15 a.m.							
11:30 a.m.							
11:45 a.m.							
12:00 p.m.							
12:15 p.m.							
12:30 p.m.		30 Mid-Day Tropical Radiology p. 84			31 Mid-Day Chagas Movie p. 84	32 Mid-Day ASTMH Journal p. 84	32A Meet the Profs B Enigmatic Cases p. 85
12:45 p.m.							
1:00 p.m.							
1:15 p.m.							
1:30 p.m.	Symposium 39	Symposium 40	Symposium 41				Scientific Session 42
1:45 p.m.	-----	-----	-----				-----
2:00 p.m.	<i>Zoonoses</i>	<i>Mosquito Repellents</i>	<i>Malaria Control Programs Africa</i>				<i>Schistosomiasis I Imm/Para Dev</i>
2:15 p.m.	p. 88	p. 89	p. 89				p. 90
2:30 p.m.							
2:45 p.m.							
3:00 p.m.							
3:15 p.m.							
3:30 p.m.							
3:45 p.m.	Symposium 47	Symposium 48	Symposium 49		Symposium 50	Scientific Session 51	Scientific Session 52
4:00 p.m.	-----	-----	-----		-----	-----	-----
4:15 p.m.	<i>Malaria Transmission JHMRI</i>	<i>Fascioliasis</i>	<i>Malaria MMV Rx Portfolio</i>		<i>Outbreak Reporting</i>	<i>Bacteriology III</i>	<i>Schistosomiasis II Epi</i>
4:30 p.m.	p. 93	p. 93	p. 94		p. 94	p. 95	p. 96
4:45 p.m.							
5:00 p.m.							
5:15 p.m.							
5:30 p.m.							
5:45 p.m.							
6:00 p.m.							
6:15 p.m.							
6:30 p.m.							
6:45 p.m.							
7:00 p.m.							
7:15 p.m.							
7:30 p.m.							
7:45 p.m.							
8:00 p.m.							
8:15 p.m.							
8:30 p.m.							
8:45 p.m.							
9:00 p.m.							
9:15 p.m.							
9:30 p.m.							
9:45 p.m.							
10:00 p.m.							
10:15 p.m.							

Schedule-at-a-Glance

Tuesday, November 6

	Franklin Hall B	Franklin Hall B	Salon AB	Salon CD	Salon E	Salon F	Salon G	Salon H
7:00 a.m.								
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.								
8:15 a.m.			Symposium 54	Symposium 55	Symposium 56	Scientific Session 57	Symposium 58	Scientific Session 59
8:30 a.m.			-----	-----	-----	-----	-----	-----
8:45 a.m.			<i>Artemether-Lumefantrine</i>	<i>Malaria Signaling</i>	<i>Protozoa and Serum Proteomics</i>	<i>Flavivirus III Dengue III</i>	<i>Remote Sensing Vector Borne</i>	<i>Malaria Dx</i>
9:00 a.m.			p. 98	p. 98	p. 98	p. 99	p. 100	p. 100
9:15 a.m.								
9:30 a.m.								
9:45 a.m.	Exhibits Open	Poster Session B						
10:00 a.m.	Coffee Break 9:30-10:30 a.m.	Set-Up						
10:15 a.m.								
10:30 a.m.		Poster Session B Viewing	Scientific Session 67	Symposium 68	Symposium 69	Symposium 70	Symposium 71	Symposium 72
10:45 a.m.			-----	-----	-----	-----	-----	-----
11:00 a.m.			<i>Malaria Molecular Biology</i>	<i>Global Health Youth Investigator</i>	<i>ACT: Africa</i>	<i>ACAV</i>	<i>Antimalarial Resistance Network</i>	<i>Tropical Dermatology</i>
11:15 a.m.			p. 105	p. 106	p. 107	p. 108	p. 108	p. 109
11:30 a.m.								
11:45 a.m.								
12:00 p.m.								
12:15 p.m.	Exhibits Open	Poster Session B Light Lunch p. 113	78 Mid-Day Bioinformatics Trop Med NCBI p. 134	79 Trainee Lunch with ASTMH Ed. Committee p. 134	79A Climate Change and Global Health p. 135			
12:30 p.m.								
12:45 p.m.								
1:00 p.m.								
1:15 p.m.								
1:30 p.m.								
1:45 p.m.		Poster Session B Viewing					Plenary III Commemorative Fund Lecture p. 136	
2:00 p.m.								
2:15 p.m.	Exhibits Open							
2:30 p.m.	Coffee Break 2:15-2:45 p.m.							
2:45 p.m.								
3:00 p.m.			Symposium 83	Scientific Session 84	Symposium 85	Scientific Session 86		
3:15 p.m.			-----	-----	-----	-----		
3:30 p.m.			<i>VHF Plasma Leakage</i>	<i>Mosquitoes: Vector Bio/Epi I</i>	<i>Clinical Group I</i>	<i>ACMCIP Cellular Parasitology I</i>		
3:45 p.m.			p. 136	p. 136	p. 137	p. 138		
4:00 p.m.								
4:15 p.m.								
4:30 p.m.								
4:45 p.m.								
5:00 p.m.			Symposium 93	Scientific Session 94	Symposium 95	Scientific Session 96	Symposium 97	Symposium 98
5:15 p.m.			-----	-----	-----	-----	-----	-----
5:30 p.m.			<i>Falciparum Recurrence</i>	<i>Mosquitoes: Vector Bio/Epi. II</i>	<i>Clinical Group II</i>	<i>ACMCIP Cellular Parasitology II</i>	<i>AMA-1 Malaria Vaccine Trials</i>	<i>Echinococcus Host-Parasite</i>
5:45 p.m.			p. 141	p. 142	p. 142	p. 143	p. 144	p. 144
6:00 p.m.								
6:15 p.m.								
6:30 p.m.								
6:45 p.m.								
7:00 p.m.								
7:15 p.m.		Poster Session B Dismantle						
7:30 p.m.				103 Meet the Profs D Career Mentoring p. 147	104 Malaria Post-Genomics p. 148			104A Chagas Movie p. 148
7:45 p.m.								
8:00 p.m.								
8:15 p.m.								
8:30 p.m.								
8:45 p.m.								
9:00 p.m.								
9:15 p.m.								
9:30 p.m.								
9:45 p.m.								
10:00 p.m.								
10:15 p.m.								

Schedule-at-a-Glance

Tuesday, November 6 (continued)

	Salon IJ	Salon KL	Liberty AB	Liberty C	Franklin 1	Franklin 2	Franklin 3/4
7:00 a.m.							
7:15 a.m.							
7:30 a.m.							
7:45 a.m.							
8:00 a.m.							
8:15 a.m.	Symposium 60	Symposium 61	Scientific Session 62	Scientific Session 63	Symposium 64	Symposium 65	Symposium 66
8:30 a.m.	-----	-----	-----	-----	-----	-----	-----
8:45 a.m.	<i>Rural 2nd Health Care</i>	<i>Leishmaniasis: Field and Rx</i>	<i>Clinical Trop Med I</i>	<i>Filariasis I: Epi/Mol Bio</i>	<i>Gut Parasites Immune Regulation</i>	<i>Vector Control Africa Costing</i>	<i>Schistosomiasis Operational Research</i>
9:00 a.m.	p. 101	p. 102	p. 102	p. 103	p. 104	p. 104	p. 105
9:15 a.m.							
9:30 a.m.							
9:45 a.m.							
10:00 a.m.							
10:15 a.m.							
10:30 a.m.	Scientific Session 73	Symposium 74	Scientific Session 75	Scientific Session 76			Symposium 77
10:45 a.m.	-----	-----	-----	-----			-----
11:00 a.m.	<i>Helminths II Echinococcus</i>	<i>Memory T Cell Parasites</i>	<i>Clinical Trop Med II</i>	<i>Filariasis II Chemotherapy</i>			<i>Anopheline Anti-Malaria Defense</i>
11:15 a.m.	p. 109	p. 110	p. 110	p. 111			p. 112
11:30 a.m.							
11:45 a.m.							
12:00 p.m.							
12:15 p.m.	80 Mid-Day Malaria				81 Meet the Profs C Effective Talks		82 Mid-Day Travelers' Malaria
12:30 p.m.	Simulation				p. 135		Prevention
12:45 p.m.	Modeling p. 135						p. 135
1:00 p.m.							
1:15 p.m.							
1:30 p.m.							
1:45 p.m.							
2:00 p.m.							
2:15 p.m.							
2:30 p.m.							
2:45 p.m.							
3:00 p.m.	Symposium 87	Symposium 88	Scientific Session 89	Symposium 90			Symposium 92
3:15 p.m.	-----	-----	-----	-----			-----
3:30 p.m.	<i>Cerebral Malaria Signaling</i>	<i>Schistosomiasis Burden</i>	<i>Malaria Chemotherapy</i>	<i>Sandfly Genomics</i>			<i>Macrophages/ Helminths</i>
3:45 p.m.	p. 138	p. 139	p. 139	p. 140			p. 141
4:00 p.m.							
4:15 p.m.							
4:30 p.m.							
4:45 p.m.							
5:00 p.m.							
5:15 p.m.	Symposium 99	Symposium 100	Scientific Session 101				Symposium 102
5:30 p.m.	-----	-----	-----				-----
5:45 p.m.	<i>Helminths Effects</i>	<i>Antimalarial Access</i>	<i>Malaria Drug Development</i>				<i>JE Vaccine: Socio-Political</i>
6:00 p.m.	p. 145	p. 145	p. 146				p. 147
6:15 p.m.							
6:30 p.m.							
6:45 p.m.							
7:00 p.m.							
7:15 p.m.							
7:30 p.m.							
7:45 p.m.							
8:00 p.m.							
8:15 p.m.							
8:30 p.m.							
8:45 p.m.							
9:00 p.m.							
9:15 p.m.							
9:30 p.m.							
9:45 p.m.							
10:00 p.m.							
10:15 p.m.							

Schedule-at-a-Glance

Wednesday, November 7

	Franklin Hall B	Franklin Hall B	Salon AB	Salon CD	Salon E	Salon F	Salon G	Salon H
7:00 a.m.								
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.			Symposium 105	Symposium 106	Symposium 107	Scientific Session 108	Scientific Session 109	Scientific Session 110
8:15 a.m.			<i>Heterogeneity and Mosquito Borne</i>	<i>Isolation of Artemisinin</i>	<i>One Medicine: One Health</i>	<i>Flavivirus IV West Nile Virus</i>	<i>ACMCIP Immunoparasitology I</i>	<i>Malaria Epi I</i>
8:30 a.m.			p. 148	p. 149	p. 149	p. 150	p. 151	p. 151
8:45 a.m.								
9:00 a.m.								
9:15 a.m.								
9:30 a.m.	Exhibits Open							
9:45 a.m.	Coffee Break 9:45-10:15 a.m.	Poster Session C Set-Up						
10:00 a.m.								
10:15 a.m.			Symposium 117	Symposium 118	Symposium 119	Scientific Session 120	Scientific Session 121	Scientific Session 122
10:30 a.m.		Poster Session C Viewing	<i>Global Enteric Multi-Center Study</i>	<i>Launch Careers BWF/ASTMH and FIC Fellow Updates</i>	<i>Trop Med Diagnostics</i>	<i>Flavivirus V</i>	<i>ACMCIP Immunoparasitology II</i>	<i>Malaria Epi II</i>
10:45 a.m.			p. 156	p. 157	p. 157	p. 158	p. 158	p. 159
11:00 a.m.								
11:15 a.m.								
11:30 a.m.								
11:45 a.m.								
12:00 p.m.	Exhibits Open	Poster Session C Light Lunch						
12:15 p.m.				129 Global Health Careers		130 Mid-Day Pub Med and HINARI	131 Mid-Day Scientists Making Media	
12:30 p.m.				p. 184		p. 185	p. 185	
12:45 p.m.								
1:00 p.m.								
1:15 p.m.								
1:30 p.m.								
1:45 p.m.		Poster Session C Viewing	Symposium 135	Symposium 136	Scientific Session 137	Symposium 138	Symposium 138A	Symposium 139
2:00 p.m.			<i>RVF Kenya I</i>	<i>NTDs Vaccines</i>	<i>Malaria Drug Resistance Modeling + High Throughput Analysis</i>	<i>Malaria and Gender</i>	<i>VFR</i>	<i>Dengue Vaccine Development</i>
2:15 p.m.			p. 186	p. 187	p. 187	p. 188	p. 188	p. 189
2:30 p.m.								
2:45 p.m.								
3:00 p.m.								
3:15 p.m.	Coffee Break							
3:30 p.m.								
3:45 p.m.								
4:00 p.m.			Symposium 145	Scientific Session 146	Scientific Session 147	Symposium 148		
4:15 p.m.			<i>RVF Kenya II</i>	<i>Protozoa</i>	<i>Malaria Mol Markers Drug Resistance</i>	<i>RTS,S Malaria Vaccine</i>		
4:30 p.m.			p. 193	p. 193	p. 194	p. 195		
4:45 p.m.								
5:00 p.m.								
5:15 p.m.								
5:30 p.m.								
5:45 p.m.								
6:00 p.m.								
6:15 p.m.								
6:30 p.m.								
6:45 p.m.								
7:00 p.m.							Plenary IV President's Address Annual Business Meeting	
7:15 p.m.							p. 200	
7:30 p.m.		Poster Session C Dismantle						
7:45 p.m.								
8:00 p.m.								
8:15 p.m.								
8:30 p.m.								
8:45 p.m.								
9:00 p.m.								
9:15 p.m.								
9:30 p.m.								
9:45 p.m.								
10:00 p.m.								
10:15 p.m.								

Schedule-at-a-Glance

Wednesday, November 7 (continued)

	Salon IJ	Salon KL	Liberty AB	Liberty C	Franklin 1	Franklin 2	Franklin 3/4
7:00 a.m.							
7:15 a.m.							
7:30 a.m.							
7:45 a.m.							
8:00 a.m.	Symposium 111	Symposium 112	Symposium 113	Symposium 114		Scientific Session 115	Symposium 116
8:15 a.m.							
8:30 a.m.							
8:45 a.m.	<i>Antiparasitic Drug Models</i> p. 152	<i>Population Surveillance</i> p. 153	<i>Leishmaniasis Rx and PKDL</i> p. 153	<i>IPT Children Malaria</i> p. 154		<i>Pneumonia and ARIs</i> p. 154	<i>Poor Quality Anti-Malarials</i> p. 155
9:00 a.m.							
9:15 a.m.							
9:30 a.m.							
9:45 a.m.							
10:00 a.m.							
10:15 a.m.	Symposium 123	Symposium 124	Symposium 125	Symposium 126	Symposium 126A	Symposium 127	Scientific Session 128
10:30 a.m.							
10:45 a.m.							
11:00 a.m.	<i>Schistosomiasis New Drug/Targets</i> p. 160	<i>Militaries and Public Health Surveillance</i> p. 161	<i>Strongyloidiasis</i> p. 161	<i>IPTi Update</i> p. 162	<i>Vaccine Adjuvants</i> p. 162	<i>Malaria Drug Resistance Pathogenesis</i> p. 163	<i>HIV in Tropics</i> p. 163
11:15 a.m.							
11:30 a.m.							
11:45 a.m.							
12:00 p.m.							
12:15 p.m.							
12:30 p.m.		132 Mid-Day Grants/NIH Funding p. 185			132A Mid-Day Workers in Trop Med Karl Johnson p. 185		133 Meet the Profs E Travel to Give or Receive Care p. 186
12:45 p.m.							
1:00 p.m.							
1:15 p.m.							
1:30 p.m.	Scientific Session 140	Symposium 141	Symposium 142	Scientific Session 143			Scientific Session 144
1:45 p.m.							
2:00 p.m.							
2:15 p.m.	<i>Mosquito Biochem Mol Bio Genetics I</i> p. 189	<i>Schistosome Genomics</i> p. 190	<i>Leishmania Vaccines, Immuno Rx</i> p. 190	<i>Filariasis III Immunology</i> p. 191			<i>Viruses I</i> p. 191
2:30 p.m.							
2:45 p.m.							
3:00 p.m.							
3:15 p.m.							
3:30 p.m.							
3:45 p.m.	Scientific Session 149	Scientific Session 150	Symposium 151	Symposium 152	Symposium 153	Symposium 154	Scientific Session 155
4:00 p.m.							
4:15 p.m.							
4:30 p.m.	<i>Mosquito Biochem Mol Bio Genetics II</i> p. 196	<i>Helminths III: Nematodes</i> p. 196	<i>Leishmaniasis: Post-Genome</i> p. 197	<i>Filariasis Elimination</i> p. 198	<i>Arboviral Emergence</i> p. 198	<i>Integrated Vector Control Africa</i> p. 199	<i>Viruses II</i> p. 199
4:45 p.m.							
5:00 p.m.							
5:15 p.m.							
5:30 p.m.							
5:45 p.m.							
6:00 p.m.							
6:15 p.m.							
6:30 p.m.							
6:45 p.m.							
7:00 p.m.							
7:15 p.m.							
7:30 p.m.							
7:45 p.m.							
8:00 p.m.							
8:15 p.m.							
8:30 p.m.							
8:45 p.m.							
9:00 p.m.							
9:15 p.m.							
9:30 p.m.							
9:45 p.m.							
10:00 p.m.							
10:15 p.m.							

Schedule-at-a-Glance

Thursday, November 8

	Franklin Hall Foyer	Salon AB	Salon CD	Salon E	Salon F	Salon G	Salon H
7:00 a.m.							
7:15 a.m.							
7:30 a.m.							
7:45 a.m.							
8:00 a.m.		Scientific Session 157	Symposium 158	Scientific Session 159	Symposium 160	Scientific Session 161	Scientific Session 162
8:15 a.m.							
8:30 a.m.							
8:45 a.m.							
9:00 a.m.		<i>Kinetoplastida II Epi/Dx/Rx</i> p. 201	<i>CD₈ and Parasites</i> p. 202	<i>Clinical Trop Med III</i> p. 202	<i>JE Updates</i> p. 203	<i>ACMCIP Molecular Parasitology I</i> p. 204	<i>Malaria Bio and Pathogenesis</i> p. 204
9:15 a.m.							
9:30 a.m.							
9:45 a.m.	Coffee Break						
10:00 a.m.							
10:15 a.m.		Scientific Session 165	Scientific Session 166	Scientific Session 167	Symposium 168	Scientific Session 169	Scientific Session 170
10:30 a.m.							
10:45 a.m.							
11:00 a.m.							
11:15 a.m.		<i>Schistosomiasis III Mol Bio</i> p. 207	<i>Mosquitoes: Vector Bio III Epi</i> p. 207	<i>Clinical Trop Med IV</i> p. 208	<i>Viral Vector Variation</i> p. 209	<i>ACMCIP Molecular Parasitology II</i> p. 209	<i>Malaria Bio and Pathogenesis II</i> p. 210
11:30 a.m.							
11:45 a.m.							
12:00 p.m.							
12:15 p.m.							
12:30 p.m.							
12:45 p.m.							

	Salon IJ	Salon KL	Room 303	Room 304
7:00 a.m.				
7:15 a.m.				
7:30 a.m.			ASTMH Council Meeting	
7:45 a.m.				
8:00 a.m.	Scientific Session 163	Symposium 164		
8:15 a.m.				
8:30 a.m.				
8:45 a.m.				
9:00 a.m.	<i>Arthropods Entomology</i> p. 205	<i>Larval Source Management I</i> p. 206		
9:15 a.m.				
9:30 a.m.				
9:45 a.m.				
10:00 a.m.				
10:15 a.m.	Scientific Session 171	Symposium 172		
10:30 a.m.				
10:45 a.m.				
11:00 a.m.				
11:15 a.m.	<i>Ectoparasite Borne Diseases</i> p. 211	<i>Larval Source Management II</i> p. 212		
11:30 a.m.				
11:45 a.m.				
12:00 p.m.				
12:15 p.m.				
12:30 p.m.				
12:45 p.m.				

Affiliate Group Meeting Schedule

www.astmh.org

Saturday, November 3

Liverpool School of Tropical Medicine IVCC ESAC LIGHT
Room 336
9 a.m. – 5 p.m.

NIH/Fogarty International Center GID Network Meeting
Room 407-408
9 a.m. – 5 p.m.

Department of Defense Global Emerging Infections System Malaria Meeting
Room 304
9 a.m. – 6 p.m.

Sunday, November 4

Liverpool School of Tropical Medicine AWOL Consortium
Room 303
8 a.m. – 2 p.m.

Medicines for Malaria Venture Conference Room
Room 412
8 a.m. – 5 p.m.

Novartis Conference Room
Room 502
9 a.m. – 5 p.m.

Liverpool School of Tropical Medicine IVCC MDSS Review
Room 406
9 a.m. – 4 p.m.

MIM/TDR Meeting
Room 304
9 a.m. – 11 a.m.

Bill & Melinda Gates Foundation Side Meetings
Room 302
9 a.m. – 5 p.m.

Bill & Melinda Gates Foundation Vector Control Meeting
Room 301
9 a.m. – 3 p.m.

Medicines for Malaria Venture Drug Combination Science Meeting
Salon II
10 a.m. – 4 p.m.

MR4 Science Advisory Committee Meeting
Room 304
11 a.m. – 4 p.m.

GeoSentinel Site Directors Meeting
Room 411
1 p.m. – 5 p.m.

Liverpool School of Tropical Medicine AWOL Management Meeting
Room 336
1 p.m. – 6 p.m.

Monday, November 5

sanofi aventis Conference Room
Room 301
8 a.m. – 9 p.m.

Medicines for Malaria Venture Conference Room
Room 412
8 a.m. – 5 p.m.

GlaxoSmithKline Conference Room
Room 411
8 a.m. – 5 p.m.

Novartis Conference Room
Room 502
9 a.m. – 8 p.m.

Bill & Melinda Gates Foundation Side Meetings
Room 302 and 405
9 a.m. – 5 p.m.

Institute for OneWorld Health Meetings
Room 406
9 a.m. – 5 p.m.

Bill & Melinda Gates Foundation TBV Project
Room 305
10 a.m. – 1 p.m.

Novartis Steering Committee Meeting
Independence I
Noon – 3:30 p.m.

GlaxoSmithKline Meeting Room
Room 410
1 p.m. – 5 p.m.

Sabin Vaccine Institute Global Network for Neglected Tropical Diseases Partners Meeting
Room 305
3 p.m. – 5 p.m.

PATH MVI – Crucell Meeting
Room 306
3 p.m. – 7 p.m.

London School of Hygiene and Tropical Medicine Alumni Reception
Liberty C
7 p.m. – 9 p.m.

Tuesday, November 6

Global TravEpiNet Meeting
Room 305
7 a.m. – 8 a.m.

Medicines for Malaria Venture Conference Room
Room 412
8 a.m. – 5 p.m.

GlaxoSmithKline Meeting Room
Room 502
8 a.m. – Noon

sanofi aventis Conference Room
Room 301
8 a.m. – 5 p.m.

GlaxoSmithKline Conference Room
Room 411
8 a.m. – 5 a.m.

IPTi Executive Committee Meeting
Room 306
8:30 a.m. – 2:30 p.m.

Bill & Melinda Gates Foundation Side Meetings
Room 302 and 405
9 a.m. – 5 p.m.

Institute for OneWorld Health Meetings
Room 406
9 a.m. – 5 p.m.

Biomphalaria Glabrata Genome Initiative
Salon KL
12:15 p.m. – 1:15 p.m.

Novartis Investigators Meeting
Independence I
5 p.m. – 6:30 p.m.

Public Library of Science Neglected Tropical Diseases Editorial Board Meeting
Room 304
7 p.m. – 9 p.m.

PATH MVI AMA Investigators Meeting
Room 305-306
7 p.m. – 9 p.m.

Institute for OneWorld Health Reception
Liberty C
7:15 p.m. – 10 p.m.

Wednesday, November 7

GlaxoSmithKline Conference Room
Room 411
8 a.m. – 5 p.m.

Medicines for Malaria Venture Conference Room
Room 412
8 a.m. – 5 p.m.

Institute for OneWorld Health Meetings
Room 406
9 a.m. – 5 p.m.

Bill & Melinda Gates Foundation Side Meetings
Room 302 and 405
9 a.m. – 5 p.m.

MIM Strategic Advisory Board Meeting
Room 502
10 a.m. – 3:30 p.m.

Pediatric Dengue Vaccine Initiative Management/Finance Committee Meeting
Room 303
6 p.m. – 10 p.m.

TDR/WHO Miltefosine Product Development Team
Room 410
7 p.m. – 10 p.m.

Thursday, November 8

Bill & Melinda Gates Foundation Integration Grants Meeting
Room 502
8 a.m. – 5 p.m.

Medicines for Malaria Venture Conference Room
Room 412
8 a.m. – 5 p.m.

GlaxoSmithKline/WRAIR Dengue Project Team
Room 411
8 a.m. – 6 p.m.

Bill & Melinda Gates Foundation Side Meetings
Room 302 and 405
9 a.m. – 5 p.m.

Institute for OneWorld Health Meetings
Room 406
9 a.m. – 5 p.m.

Pediatric Dengue Vaccine Initiative Board of Counselors Annual Meeting
Room 305
9 a.m. – 9 p.m.

Liverpool School of Tropical Medicine IVCC Objective Two Meeting
Room 309
Noon – 5 p.m.

Friday, November 9

Bill & Melinda Gates Foundation Integration Grants Meeting
Room 502
8 a.m. – 5 p.m.

MVI/GlaxoSmithKline Partnership/Steering Committee
Room 415
9 a.m. – 5 p.m.

Pediatric Dengue Vaccine Initiative Board of Counselors Annual Meeting
Room 305
9 a.m. – 9 p.m.

NOTE: Affiliate group meetings are by invitation only.

Sunday, November 4

ASTMH Council Meeting

Rooms 305-306
8 a.m. – 3 p.m.

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

Room 309
11 a.m. – Noon

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

Room 309
Noon – 2 p.m.

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

Room 309
2 p.m. – 3:30 p.m.

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

Room 309
3:30 p.m. – 5:30 p.m.

American Committee of Medical Entomology (ACME) Council Meeting

Room 301
3:30 p.m. – 5 p.m.

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

Room 362
3:30 p.m. – 5 p.m.

Clinical Group Council Meeting

Room 405
3:30 p.m. – 5:30 p.m.

Young Investigator Award Committee Meeting

Independence I
3:30 p.m. – 5 p.m.

Monday, November 5

ASTMH Public Policy and Advocacy Leadership Committee Meeting

Room 305
7 a.m. – 8 a.m.

Diploma Course Directors Meeting

Room 410
7 a.m. – 8 a.m.

Clinical Group Education Curriculum Committee Meeting

Room 336
Noon – 1:30 p.m.

Certificate Exam Executive Committee Meeting

Room 362
12:15 p.m. – 1:15 p.m.

Tuesday, November 6

Education Committee Meeting

Room 306
7 a.m. – 8 a.m.

Clinical Group Past Presidents Meeting

Room 410
7 a.m. – 8 a.m.

Journal Editorial Board Meeting

Room 309
7 a.m. – 8 a.m.

CME/Courses Committee Meeting

Room 336
12:15 p.m. – 1:15 p.m.

Wednesday, November 7

ASTMH Past Presidents Meeting

Room 305
7 a.m. – 8 a.m.

Web Site Committee Meeting

Room 362
7 a.m. – 8 a.m.

Scientific Program Committee Meeting

Rooms 303-304
7 a.m. – 8 a.m.

Burroughs Wellcome Fund — ASTMH Fellowship Committee Meeting

Room 336
Noon – 2 p.m.

Certificate Exam Committee Meeting

Room 410
12:15 p.m. – 1:15 p.m.

Thursday, November 8

ASTMH Council Meeting

Rooms 303-304
7:30 a.m. – 9:30 a.m.

Committee Meetings

Rooms 303 and 304 on the third floor 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 sheets located outside these rooms to reserve meeting time for your group.

ASTMH Subgroup Tables

Visit the American Committee of Medical Entomology (ACME) and the American Committee on Arthropod-Borne Viruses (ACAV) information tables in the exhibit hall to learn about their programs and activities.

ASTMH 56th Annual Meeting

Officers

President

Carlos C. (Kent) Campbell

President-Elect

Claire Panosian

Immediate Past President

Myron (Mike) Levine

Secretary-Treasurer

George Hillyer

Executive Director

Sally Finney

Councilors

John Donelson
Regina Rabinovich
Frank Richards
Carol Hopkins Sibley
Scott Weaver
Gary Weil
Clinton White
Mary Wilson

Chair, Scientific Program Committee

Edward Ryan

Editor, *American Journal of Tropical Medicine and Hygiene*

James Kazura

Editors, *Tropical Medicine and Hygiene News*

William Collins and Geoffrey Jeffery

Web Site Editor

Jack Woodall

Advisor

Peter Weller



American Society of Tropical Medicine and Hygiene

60 Revere Drive, Suite 500
Northbrook, IL 60062 USA
847/480-9592
Fax: 847/480-9282
info@astmh.org
www.astmh.org

Edward T. Ryan, *Chair*

Career Development/Education

Chair: Sarah Volkman
Michele Barry
Steve Higgs
Anne McCarthy

Clinical Tropical Medicine

Chair: Alan Magill
Robert Gasser
Davidson Hamer
Larry Laughlin
Alan Spira
Marty Wolfe
David McNeeley
Joe Vinetz

Diarrhea and Bacterial Illness

Chair: Edward T. Ryan
Davidson Hamer
James Hughes
Regina LaRocque
Pavani Ram

Entomology

Chair: William Black
Kate Aultman
Hilary Ranson
David Severson

Filariasis

Chair: Amy Klion
Edward Mitre
Frank Richards
Steven Williams

Intestinal and Tissue Helminths, Cestodes

Chair: A. Clinton White
David Abraham
Mark Eberhard
Peter Kern

Kinetoplastida

Chair: Rick Tarleton
Barbara Burleigh
Diane McMahon-Pratt

Late Breakers in Clinical Tropical Medicine

David McNeeley
Barbara Herwaldt

Late Breakers in Molecular Biology

Stefan Kappe
Rebeca Rico-Hesse

Malaria

Chair: Carol Sibley
Jeanne Courval
Johanna Daily
Mary Hamel
Sanjai Kumar
Miriam Laufer
Christopher Plowe
Laurence Slutsker
Joe Vinetz
Sarah Volkman
Kim Williamson
Yimin Wu

Meet the Professors

Anne McCarthy

Molecular Parasitology

Chairs: Michael Cappello/Sarah Volkman
David Abraham
John Adams
Barbara Burleigh
Daniel Carucci
Brian Cooke
Donald Harn
Stuart Kahn
Peter Kima
Beth Kirkpatrick
Barbara Mann
Diane McMahon-Pratt
Peter Melby
Evan Secor
Joe Vinetz
Sarah Volkman
David Williams
Kim Williamson
Tom Wynn

Opportunistic and Anaerobic Protozoa

Chair: Thaddeus Graczyk
Barbara Mann
Upinder Singh

Pneumonia and Respiratory Illness

Chair: Abdullah Brooks
Davidson Hamer
Keith Klugman

Schistosomiasis-Helminths

Chair: W. Evan Secor
Miguel Stadelcker
David Williams
Tom Wynn

Tick-Louse-Flea-Mite-Borne Diseases

Chair: Stephen Dumler
Bob Lane
Sam Telford

Tropical HIV

Chair: Jean Nachega
Davidson Hamer
Rocio Hurtado

Virology

Chair: Rebeca Rico-Hesse
Carol Blair
Scott Halstead
George Ludwig
Julia Lynch
Michael Turell

ASTMH Committees and Subgroups

Archives

Chair: Donald Burke

Audit

Chair: George Hillyer
Stephen Hoffman; Dyann Wirth

Awards

Chair: Peter Weller (2005-2007)
Thomas Monath (2006-2008); Myron Levine (2007-2009)

Benjamin H. Kean Traveling Fellowship in Tropical Medicine

Chair: Christopher Plowe
Alberto Acosta; Frank Bia; Stephen Hoffman; Colette Kean; Myaing Nyunt;
Martin Wolfe

Bioterrorism

Chair: Daniel Carucci
Carter Diggs; James Hughes; George Korch

Burroughs Wellcome Fund-ASTMH Fellowship

Chair: Terrie Taylor
Stephen Calderwood; Ravi Durvasula; Richard Guerrant; Victoria McGovern;
Claire Panosian

Certificate Examination

Chair: Susan McLellan
Lin Chen; Jovita Fernandez; David Freedman; Gregory Juckett; Lisa Keep; Ali
Khan; Victor Kovner; Walter Kuhn; Jamie Maguire; Bonnie Smoak; William
Stauffer; A. Clinton White

Certificate Exam Executive Committee

Chair: Jamie Maguire
Kent Campbell (2007); George Hillyer (2006-2008); Patricia Joyce (2007-
2009); Larry Laughlin; Anne McCarthy (2007); Susan McLellan (2007-2009)

Commemorative Fund Lectureship

Chair: Kent Campbell (2007)

Communications Award

Chair: Claire Panosian
Jon Cohen, David Hill, Susan Okie, Mary Wilson

Continuing Medical Education

Chair: Jonathan Berman
David Hill; Elaine Jong; Kevin Kain; Alan Magill; Edward Ryan

Corporate Liaison

Chair: Thomas Monath
Bradley Connor; Jeff Chulay; Adel Mahmoud; Jaco Smit

Courses Committee

Chair: Alan Magill
Jonathan Berman; David Hill; Elaine Jong; Kevin Kain; Edward Ryan

Credentialing Committee

Chair: Larry Laughlin
David Freedman; David Hill; Christopher Karp; Jay Keystone; Christopher
King; Herbert Tanowitz

Current Affairs

Chair: Richard Guerrant
Joseph Cook; Jacob Frenkel; Scott Halstead

Editorial Board, *American Journal of Tropical Medicine and Hygiene*:

David Abraham; John Barnwell; Michael Cappello; William Collins; Hector
Garcia; James Hughes; Jay Keystone; Philip Loverde; Steven Meshnick;
Thomas Nutman; Rebeca Rico-Hesse; Philip Rosenthal; Frank Sorvillo;
Andrew Spielman; Terrie Taylor; Robert Tesh; David Walker; Editorial Staff:
James Kazura, Chair (Editor-in-Chief); McWilson Warren (Emeritus Editor);
Joe Vinetz (Associate Editor); Cathi Siegel (Managing Editor); Laura Buckley
(Editorial Assistant); Allen W. Hightower (Statistical Editor); Section Editors: J.
Kevin Baird; J. Stephen Dumler; Hisashi Fujioka; Diane McMahon-Pratt; Scott
C. Weaver; Clinical Group Editor: Jamie Maguire.

Education:

Chair: Stephen Higgs
Noah Craft; Hector Gorbea; Laura Harrington; Risa Hoffman; Charles
McGee; Victoria McGovern; Claire Panosian; Sarah Volkman; Steve Wikel;
Jack Woodall (ad hoc); Peter Zimmerman

Fundraising:

Chair: Peter Weller
Michele Barry; Stephen Hoffman; Peter Hotez; James Kazura; Tom Monath;
William Petri; Dyann Wirth

Gorgas Memorial Institute Research Award

Chair: Rebeca Rico-Hesse
Rodney Adam; Kathryn Aultman; Ynes Ortega

Honorary Membership

Chair: Richard Guerrant
John David; Thomas Monath; Frank Neva

International Federation of Tropical Medicine Representative

Don Krogstad

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

Chair: Robert Tesh
Donald Burke; David Freedman (Gorgas representative); Peter Hotez;
William Petri

Membership

Chair: George Hillyer
Stephen Higgs; Anne McCarthy; Claire Panosian; Sarah Volkman; Doug
Watts

Newsletter Editorial Board

William Collins, Editor; Geoffrey Jeffery, Editor
Kate Aultman; Latha Rajan; Mitzi Sereno; Karl Western

Nominations

Chair: Mike Levine (2007)
Nora Besansky (2007-2008); Mark Eberhard (2007-2008); Gray Heppner
(2006-2007); Anthony James (2006-2007); Alan Magill (2007-2008);
Barbara Mann (2006-2007); Julie Moore (2007-2008); Elizabeth Nardin
(2006-2007); Claire Panosian (2007-2008); Mark Wilson (2006-2007)

Pfizer Centennial Travel Award

Chair: Joe Vinetz
John Adams; Barbara Burleigh; Michael Cappello; Diane McMahon-Pratt

Program Certification

Chair: Jamie Maguire
Michele Barry; David Freedman; Richard Guerrant; Rocio Hurtado; James
Kazura; Donald Krogstad; Larry Laughlin; Anne McCarthy; Alan Spira;
Peter Weller

Public Policy and Advocacy Leadership Committee

Chair: Kent Campbell

Michele Barry; Frank Collins; Stephen Hoffman; Peter Hotez; Alan Magill; Tom Monath; Claire Panosian; Frank Richards; Larry Slutsker; Terrie Taylor

Robert E. Shope International Fellowship

Chair: Charles Calisher

Barry Beaty; Donald Burke; George Ludwig; Barry Miller; Philip Russell; Richard Shope; Peter Weller

Scientific Program

Chair: Edward T. Ryan (2005-2007)

Travel Awards Committee

Chair: James LeDuc

Mark Eberhard; Jamie Maguire; Dan Milner; Terrie Taylor; Eileen Villasante; Joe Vinetz

Update Course in Clinical Tropical Medicine and Travelers' Health

Co-Chairs: Alan Magill and Richard Pearson

Web Site Committee

Chair: Ken Dardick

Kathryn Aultman; Stephen Cunnion; Akhil Vaidya; Dawn Wesson; Jack Woodall

Young Investigator Award

Chair: Peter Zimmerman

Kathryn Aultman; Subbaraman Babu; Brenda Beerntsen; Roland Cooper; Stephen Davies; Christopher King; Sanjai Kumar; Nick Komar; Miriam Laufer; Julian Rayner; W. Evan Secor; Daniel Tisch; Joe Vinetz; Patty Wilkins; David Williams; Yimin Wu

American Committee of Medical Entomology (ACME)

Chair: Stephen Higgs

American Committee on Arthropod-Borne Viruses (ACAV)

Chair: Douglas Watts

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

President: Anne McCarthy

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)

President: Sarah Volkman



ASTMH Headquarters Staff

Sally Finney

Executive Director

Judy DeAcetis

Administrative Director

Buffy Finn

Membership Services Administrator

Lyn Maddox

Conference Director

Kim Santos

Conference Administrator

Madhuri Carson

Conference Administrator

Matthew Lesh

Communications Manager

Jill Hronek

Communications Director

Scott Taylor

Accountant

Affiliate (Organizational) Membership

Affiliate membership is an opportunity for a company, corporation, foundation or other type of organization to support ASTMH and its mission.

Affiliate members designate one individual to serve as the main contact and receive society mailings. Affiliate membership benefits include:

- Recognition in ASTMH publications and at the annual meeting, and
- Discounts on annual meeting exhibit space fees, journal advertising rates and list rentals

Affiliate membership is available at the Patron, Donor and Contributor levels. Contact ASTMH headquarters for details or to request an application.

ASTMH Affiliate Members

Patron

GlaxoSmithKline

Donor

Techlab Inc.

Contributor

Merck Research Laboratories

Panbio Inc.

2007 Travel Awards

Supported with funding from the Bill & Melinda Gates Foundation and the National Institutes of Health/National Institute of Allergy and Infectious Diseases

Jane Achan

Makerere University
Kampala, Uganda
Abstract 705

A. Paige Adams

University of Texas Medical Branch
Galveston, Texas USA
Abstract 278

Christopher Barker

University of California, Davis
Davis, California USA
Abstract 584

Ron Birnbaum

Harbor-UCLA Medical Center
Los Angeles, California USA
Abstract 631

M. Paola Boggiatto

Iowa State University
Ames, Iowa USA
Abstract 142

Mouhamadou Seidou Chouaibou

Organisation de Coordination pour la
lutte contre les Endémies en Afrique
Centrale (OCEAC)
Yaounde, Cameroon
Abstract 865

James Colborn

Centers for Disease Control and
Prevention
Fort Collins, Colorado USA
Abstract 913

Alexander Yaw Debrah

Kwame Nkrumah University of
Science and Technology
Kumasi, Ghana
Abstract 388

Francisco Diaz

Universidad de Antioquia
Medellin, Colombia
Abstract 446

Nancy Duah

London School of Hygiene and
Tropical Medicine
London, United Kingdom
Abstract 302

Gretchen Ehrenkaufner

Stanford University
Stanford, California USA
Abstract 1048

Autumn Girouard

Johns Hopkins Bloomberg School of
Public Health
Baltimore, Maryland USA
Abstract 961

Andrew Helmers

University of Toronto
Toronto, Ontario, Canada
Abstract 164

Andres Herrera

United States Naval Medical
Research Center Detachment
Lima, Peru
Abstract 747

Nusrat Homaira

International Centre for Diarrheal
Disease Research, Bangladesh
(ICDDR,B)
Dhaka, Bangladesh
Abstract 281

Emily Jentes

Tulane University School of Public
Health and Tropical Medicine
New Orleans, Louisiana USA
Abstract 259

Rachaneeporn Jenwithisuk

Armed Forces Research Institute of
Medical Sciences (AFRIMS)
Bangkok, Thailand
Abstract 515

Colince Kamden

University of Yaounde
Yaounde, Cameroon
Abstract 1035

Marisa Madison

Meharry Medical College
Nashville, Tennessee USA
Abstract 648

Hortance Manda

International Centre of Insect
Physiology and Ecology (ICIPE)
Mbita Point, Kenya
Abstract 1026

Frank Mannix

Tulane University School of Public
Health and Tropical Medicine
New Orleans, Louisiana USA
Abstract 130

Flavia McBride

Universidade Federal da Bahia
Salvador, Brazil
Abstract 98

Charles McGee

University of Texas Medical Branch
Galveston, Texas USA
Abstract 658

Arthur Mpimbaza

Makerere University
Kampala, Uganda
Abstract 352

Olusola Ojuronbe

Ladoke Akintola University of
Technology
Osun State, Nigeria
Abstract 523

John Ongecha

Kenya Medical Research Institute
Kisumu, Kenya
Abstract 694

Hugo Razuri

Uniformed Services University
of the Health Sciences
Bethesda, Maryland USA
Abstract 332

Vivornpun Sanprasert

Chulalongkorn University
Bangkok, Thailand
Abstract 784

Mariana Simoes

Fundacao Oswaldo Cruz
(FIOCRUZ)
Belo Horizonte, Brazil
Abstract 286

Peter Odada Sumba

Kenya Medical Research Institute
Kisumu, Kenya
Abstract 557

Win Surachetpong

University of California, Davis
Davis, California USA
Abstract 251

2007 American Committee of Medical Entomology (ACME) Travel Awards

Maria Julia Dantur Juri

National University of Tucuman
Tucuman, Argentina
Abstract 398

Lisa Purcell

McGill University
Sainte-Anne-de-Bellevue, I
Quebec, Canada
Abstract 36

Continuing Medical Education Accreditation

The American Society of Tropical Medicine and Hygiene is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Continuing Medical Education Credits

The American Society of Tropical Medicine and Hygiene designates this educational activity for a maximum of 37.25 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Register for CME Credit

The CME documentation fee is \$100. CME certificates will be mailed six-to-eight weeks after the annual meeting.

Complete your CME evaluation form online! Visit the ASTMH Cyber Café and complete your online CME Attendance and Evaluation Form while at the meeting. Or use your own computer to access the evaluation form at www.astmh.org/cme.

Full Disclosure Policy Affecting CME Activities

Consistent with ASTMH policy, faculty for this meeting are expected to disclose any economic or other personal interests that create, or may be perceived as creating, a conflict related to the material discussed. All conflicts of interest must be resolved prior to the annual meeting.

In addition, consistent with ASTMH policy, faculty are expected to disclose to attendees at the beginning of their presentation(s) any product mentioned during their presentation that is not labeled for the use under discussion or is still investigational. This policy is intended to allow you to form your own judgments about such material.



General Meeting Information

Pre-Meeting Course Registration Hours

Grand Ballroom Foyer

Friday, November 2	4 p.m. – 6 p.m.
Saturday, November 3	7 a.m. – 1:30 p.m.

Annual Meeting Registration Hours

Sunday, November 4	10:30 a.m. – 6 p.m.
Monday, November 5	7 a.m. – 5 p.m.
Tuesday, November 6	7 a.m. – 5 p.m.
Wednesday, November 7	7 a.m. – 5 p.m.
Thursday, November 8	7 a.m. – 10:30 a.m.

Messages and Emergency Calls

A message board will be available near the ASTMH registration desk. Check the message board often to retrieve your messages. Phone calls should be directed to 215/625-2900, the main switchboard of the Philadelphia Marriott Downtown. Callers should ask to be connected to the ASTMH registration desk. Faxes can be sent to the hotel at 215/625-6000.

Badges/Access Control

Participation in the ASTMH Annual Meeting is limited to registered attendees. The official badge is required for admission to all sessions, social activities and the exhibit area. Do not place a business card into the badgeholder as identification. If there is an error on a badge, please have it corrected at the registration desk.

Replacement Badge

If your badge is lost, you must purchase a replacement badge for a fee of \$15. Bring your photo I.D. with you to the registration desk to have a new badge issued. This fee will not be refunded if you find your original badge.

Spouse/Guest Registration

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



General Information

Food Functions

The following food functions are included in the registration fee:

- Opening reception (Sunday)
- Late Breakers in Clinical Tropical Medicine and Basic Science/Molecular Biology light dinner (Monday)
- Poster session lunches (Monday, Tuesday and Wednesday)
- Coffee breaks

Hotel Information

The Philadelphia Marriott Downtown will be the site of all annual meeting activities.

Philadelphia Marriott Downtown
1201 Market St.
Philadelphia, PA 19107
215/625-2900
Fax: 215/625-6000

Hotel Parking

Parking at the Philadelphia Marriott Downtown is currently \$36 for overnight valet parking with in/out privileges. If you choose to self-park, a garage is located directly across the street from the hotel. The rate is \$28 for 24 hours with no in/out privileges.

Americans with Disabilities Act

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

Exhibits

Exhibit Hall

The ASTMH 56th Annual Meeting features an exposition of displays by leading suppliers and vendors. A complete exhibitor and supporter directory is included in the registration packet.

Exhibit Hours

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

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.

Cyber Café

Visit the Cyber Café in the Franklin Hall Foyer on the fourth floor. As a courtesy to other attendees, we ask that you limit your computer use to ten minutes per visit.

Press Room

The press room is located in Room 403 on the fourth level. ASTMH press kits are available. Press announcements and other details can be found in Room 403. Press room hours of operation are:

Monday, November 5	7:30 a.m. – 6:30 p.m.
Tuesday, November 6	7:30 a.m. – 6:30 p.m.
Wednesday, November 7	8 a.m. – 6 p.m.
Thursday, November 8	8 a.m. – 2 p.m.

Employment Opportunities

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

Career Center

The ASTMH online Career Center, available at www.astmh.org, features a fresh, user-friendly design and enhanced functionality. In addition to viewing a wide range of available positions in the tropical medicine and hygiene field, members can now 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 Web site, buy classified ad space in the *American Journal of Tropical Medicine and Hygiene* and search the ASTMH resume bank for qualified applicants.

Camera Restrictions/Recording Devices

Only registered members of the press and attendees who receive approval from ASTMH staff may take cameras into the exhibit hall or use recording devices during sessions.

Disclaimer

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

Meeting Evaluation

ASTMH needs your input to enhance future meetings. An online meeting evaluation survey will be e-mailed to you shortly after the meeting. Your participation in this survey is greatly appreciated.

The scientific program committee welcomes your input concerning the format and planning of this and future ASTMH meetings. Organization of symposia and participation in educational program planning through the program committee is encouraged for all interested ASTMH members.

The American Journal of Tropical Medicine & Hygiene

Trial Journal Subscriptions

The American Journal of Tropical Medicine and Hygiene has included a complimentary trial subscription number in your registration packet. Non-members can activate this 90-day trial to enjoy the benefits of an online journal subscription at no charge. Members already enjoy a subscription to the online journal and can pass the trial subscription number along to a non-member colleague.

ASTMH Journal Symposium Preparation and Review of Scientific Manuscripts for the *American Journal of Tropical Medicine & Hygiene*

Mid-Day Session 32

Monday, November 5

12:15 pm - 1:15 pm

Franklin 2

This session is designed to educate attendees about the Journal and the publishing process as a whole. Discussion will focus on how manuscripts are reviewed, edited and processed by the Journal, and will include pointers on preparation and review of manuscripts. See the handout in your registration packet for more information. We encourage you to ask questions at this session and would like to hear your feedback on the Journal.

Program Information

New this year!

Annual Meeting Audio Recordings

Can't figure out how to be in two places at once? Problem solved! With so much cutting-edge science available at the ASTMH conference, you will now be able to purchase audio recordings of sessions you missed.

Visit the sales desk in the registration area to purchase a CD and/or multimedia CD-ROM of the conference sessions from IntelliQuest Media. Discounts will be extended for onsite orders. You may contact them at 866-651-2586 or visit www.intelliquestmedia.com.

Late Breaker Abstracts

Late Breakers in Basic Science/Molecular Biology

Monday, November 5

7 p.m. – 9 p.m.

Salon CD

Late Breakers in Clinical Tropical Medicine

Monday, November 5

7 p.m. – 9 p.m.

Salon AB

These sessions are designed for brief presentations of important, new data obtained after the closing date for abstract submission. Oral late breaker presentations will take place on Monday evening. Poster late breaker 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.

Meet the Professors

Meet the Professors sessions are small, interactive programs held on Monday, Tuesday and Wednesday. Special student sessions will be held on Monday at 7 a.m. and Tuesday evening at 7:15 p.m. The sessions are open to all meeting participants and a light meal will be provided. While the professors will lead the program and have some prepared remarks, the sessions will be largely question-and-answer format.

ACMCIP Abstracts

Throughout this book, you will notice that some abstracts are followed by the notation "(ACMCIP abstract)." This notation means the abstract submitter indicated that the abstract 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 <http://www.astmh.org/sic/acmcip.cfm>.

Special Events for Trainees (Students, Fellows, Residents and Junior Faculty)

Events featuring light meals denoted with an asterisk.

Young Investigator Award Presentations

Sunday, November 4
11 a.m. – 3:30 p.m.
Independence I, II, and III, Liberty A and C

Student Reception*

Sunday, November 4
4 p.m. – 5 p.m.
Porthole Room (follow signs across the bridge on third floor)

The ASTMH council invites students, postdoctoral fellows and residents to the student reception. This reception is an opportunity to meet fellow trainees and interact with society leaders.

Session 1: Meet the Professors A (page 46)* Fireside Chat: Personal Experiences, Words of Wisdom and Institutional Perspectives

Monday, November 5
7 a.m. – 8 a.m.
Salon G
Light breakfast provided

Mid-Day Session 29: Career Pathways in Global Health (page 84)*

Monday, November 5
12:15 p.m. - 1:15 p.m.
Salon H
Light lunch provided

Symposium 68: Global Health Symposium on Tropical Medicine (page 106)

Supported with funding from the Bill and Melinda Gates Foundation
Tuesday, November 6
10:15 a.m. - Noon
Salon CD

Mid-Day Session 78: Bioinformatics Resources for Tropical Diseases: NCBI Resource Update (page 134)

Tuesday, November 6
12:15 p.m. - 1:15 p.m.
Salon AB

Mid-Day Session 79: ASTMH Trainee Lunch with Education Committee (page 134)*

Tuesday, November 6
12:15 p.m. - 1:15 p.m.
Salon CD
Light lunch provided

Evening Session 103: Meet the Professors D (page 147)* American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Professional Development Series on Mentoring

Tuesday, November 6
7:15 p.m. - 9 p.m.
Salon H
Light dinner provided

Symposium 118: Launching Careers In Tropical Disease Research: Progress Reports From The Burroughs Wellcome Fund/ASTMH and Fogarty International Center IRDSA Fellows (page 157)

Wednesday, November 7
10:15 a.m. - Noon

Salon CD

Mid-Day Session 130: PubMed and HINARI: Searching and Getting the Articles You Want (page 185)

Wednesday, November 7
12:15 p.m. - 1:15 p.m.
Salon F

Mid-Day Session 132: National Institutes of Health Grants: Grantsmanship, Review and Funding Opportunities (page 185)

Wednesday, November 7
12:15 p.m. - 1:15 p.m.
Salon KL

Other Sessions for Career Development

Parasitology Pre-Meeting Course:

Systems Biology: Approaches to Understanding Infectious Disease

Saturday, November 3
8:30 a.m. - 4:45 p.m.
Salon F

Clinical Pre-Meeting Course:

Chagas Disease (American Trypanosomiasis): No Longer an Exotic Disease (page 34)

Saturday, November 3, Noon - 5 p.m.
Sunday, November 4, 7:30 a.m. - 3 p.m.
Salon E

Plenary Session I and Society Awards Ceremony (page 45)

Sunday, November 4
5:30 p.m. - 7:30 p.m.
Salon GH

Opening Reception

Sunday, November 4
7:30 p.m. - 9:30 p.m.
Franklin Hall

Symposium 5: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Genomic Approaches to Host and Parasite Interactions (page 47)

Monday, November 5
8 a.m. - 9:45 a.m.
Salon F

Symposium 10: Tropical Medicine and the Media (page 49)

Monday, November 5
8 a.m. - 9:45 a.m.
Liberty AB

Mid-Day Session 32: Preparation and Review of Scientific Manuscripts for the American Journal of Tropical Medicine & Hygiene (page 84)

Monday, November 5
12:15 p.m. - 1:15 p.m.
Franklin 2

Symposium 36: American Committee of Medical Entomology (ACME) I: Andrew Spielman's Contributions to Medical Entomology (page 87)

Monday, November 5
1:30 p.m. - 3:15 p.m.
Salon F

ASTMH 56th Annual Meeting

Symposium 46: American Committee of Medical Entomology (ACME) II: Andrew Spielman's Contributions to Medical Entomology (page 93)

Monday, November 5
3:45 p.m. - 5:30 p.m.
Salon F

Symposium Session 70: American Committee on Arthropod-Borne Viruses (ACAV): Modulation of Innate Immune Responses in Vertebrate and Arthropod Host Cells By Arboviruses (page 108)

Tuesday, November 6
10:15 a.m. - 12:45 p.m.
Salon F

Symposium 85: Clinical Group I (page 137)

Tuesday, November 6
2:45 p.m. - 4:30 p.m.
Salon E

Scientific Session 86: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Cellular Parasitology I (page 138)

Tuesday, November 6
2:45 p.m. - 4:30 p.m.
Salon F
Featuring invited talks from Woods Hole parasitology meeting award-winning presenters.

Symposium 95: Clinical Group II (page 142)

Tuesday, November 6
5 p.m. - 6:45 p.m.
Salon E

Scientific Session 96: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Cellular Parasitology II (page 143)

Tuesday, November 6
5 p.m. - 6:45 p.m.
Salon F
Featuring invited talks from Woods Hole parasitology meeting award-winning presenters.

Scientific Session 109: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Immunoparasitology I (page 151)

Wednesday, November 7
8 a.m. - 9:45 a.m.
Salon G
Featuring invited talks from Woods Hole parasitology meeting award-winning presenters.

Scientific Session 121: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Immunoparasitology II (page 158)

Wednesday, November 7
10:15 a.m. - Noon
Salon G
Featuring invited talks from Woods Hole parasitology meeting award-winning presenters.

Mid-Day Session 132A: Workers in Tropical Medicine Video: Karl M. Johnson, MD: Life and Legend of a Leader in Tropical Virology (page 186)

Wednesday, November 7
12:15 p.m. - 1:15 p.m.
Franklin 1

Plenary Session IV: Presidential Address and Annual Business Meeting

Wednesday, November 7
6 p.m. - 7:30 p.m.
Salon GH

Scientific Session 161: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Molecular Parasitology I (page 204)

Thursday, November 8
8 a.m. - 9:45 a.m.
Salon G
Featuring invited talks from Woods Hole parasitology meeting award-winning presenters.

Scientific Session 169: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Molecular Parasitology II (page 209)

Thursday, November 8
10:15 a.m. - Noon
Salon G
Featuring invited talks from Woods Hole parasitology meeting award-winning presenters.

Elsevier Student Book Award Applicants

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.

Please support these young scientists by attending their presentations throughout the conference.

Abstract 187

High prevalence of asymptomatic malaria infections in the Papua New Guinea Defence Force
Edwin Siu

Abstract 654

Antimalarial activity and mechanism of action of artemisinin antimalarials: Is the digestive vacuole (DV) the primary target?
Maria del Pilar Crespo Ortiz

Abstract 733

Assessment of clinical tropical medicine competency among U.S.-trained medical students and residents
Lipi Roy

Abstract 747

The effect of preparation of Cebiche on the survival of Escherichia coli, Aeromonas hydrophila and Vibrio parahaemolyticus
Andres Herrera

Abstract 752

Glutamine and zinc support brain development in suckling Swiss mice challenged by undernutrition
Ibraim Cavalcante de Castro

Abstract 793

Acute Chagas disease outbreak associated to Açai Juice Consumption — Pará State/Brazil, 2006
Aglaer Alves da Nobrega

Abstract 1027

A means to an end: Comparative analysis of chromosomal inversions frequency and distribution in the major malaria vectors Anopheles gambiae and Anopheles funestus across ecologically diverse environments in Cameroon
Diego Ayala

Detailed Program

Poster Sessions

Franklin Hall B

Poster Session Schedule

Poster Session A

<i>Setup:</i> Monday, November 5 9:45 a.m. – 10:15 a.m.	<i>Presentations:</i> Monday, November 5 Noon – 1:30 p.m.
<i>Viewing:</i> Monday, November 5 10:15 a.m. – Noon 1:30 p.m. – 7 p.m.	<i>Dismantle:</i> Monday, November 5 7 p.m. – 8 p.m.

Poster Session B

<i>Setup:</i> Tuesday, November 6 9:45 a.m. – 10:15 a.m.	<i>Presentations:</i> Tuesday, November 6 Noon – 1:30 p.m.
<i>Viewing:</i> Tuesday, November 6 10:15 a.m. – Noon 1:30 p.m. – 7 p.m.	<i>Dismantle:</i> Tuesday, November 6 7 p.m. – 8 p.m.

Poster Session C

<i>Setup:</i> Wednesday, November 7 9:45 a.m. – 10:15 a.m.	<i>Presentations:</i> Wednesday, November 7 Noon – 1:30 p.m.
<i>Viewing:</i> Wednesday, November 7 10:15 a.m. – Noon 1:30 p.m. – 7 p.m.	<i>Dismantle:</i> Wednesday, November 7 7 p.m. – 8 p.m.

Three poster sessions will be held at the ASTMH 56th Annual Meeting in Franklin Hall B on the fourth floor. 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 viewing time is scheduled each day in the morning and afternoon.

Online Program Options

Following the meeting, search the annual meeting program online by abstract word, title, subject, author and presentation time at <http://www.astmh.org>.

Late breaker abstracts and post-publication changes in the program and abstracts can be found on the ASTMH Web site.

Speaker Ready Room and Audiovisual Facilities

Rooms 413 and 415

Audio-visual preview and submission facilities are provided beginning Saturday, November 4 at noon in rooms 414 and 415 on the fourth floor.

All oral presentations must use PowerPoint.

Pre-load your presentation in the Speaker Ready Room 24 hours prior to your session. If you are unable to do so, and you have a morning presentation, please go directly to the meeting room to load your presentation at least one half-hour before your session. If you have an afternoon presentation and are unable to load your presentation the day before, visit the Speaker Ready Room on the morning of your talk.

Your presentation should be saved on a floppy disk, CD-R or memory stick. The CD-R should be in a version that can be read on any PC CD-ROM. If you use a Mac, make sure that your presentation is readable via PC PowerPoint.

If your presentation includes a video segment, it is very important that you visit the Speaker Ready Room and advise the AV techs of the video.

A computer and LCD projector will be set up in each presentation room. You cannot present your talk from your own laptop. Your presentation will be run from the AV technician's PC-based computer.

We strongly encourage you to pre-load your presentation in the Speaker Ready Room 24 hours prior to presentation time.

Speaker Ready Room Hours

Saturday, November 3	Noon – 5 p.m.
Sunday, November 4	7 a.m. – 6 p.m.
Monday, November 5	7 a.m. – 6 p.m.
Tuesday, November 6	7 a.m. – 6 p.m.
Wednesday, November 7	7 a.m. – 6 p.m.
Thursday, November 8	7 a.m. – Noon

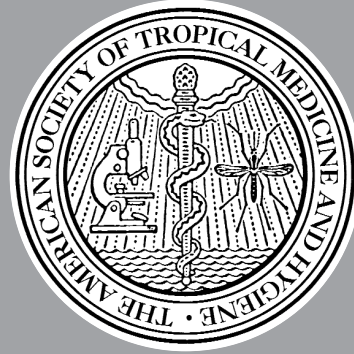
MARK YOUR CALENDAR!

**ASTMH 57th
Annual Meeting
December 7-11, 2008**

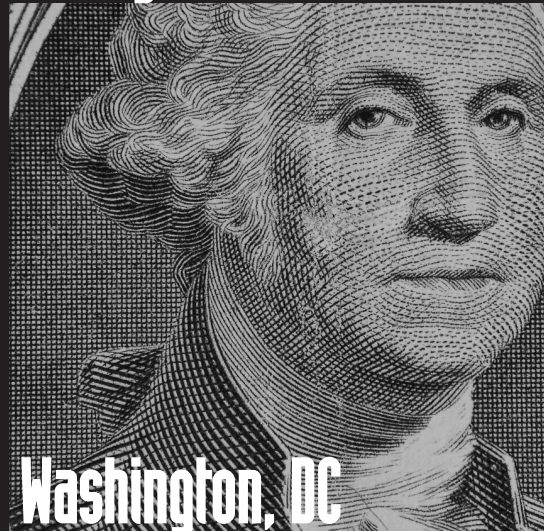
**Sheraton New Orleans
New Orleans, Louisiana**

**ASTMH 58th
Annual Meeting
November 18-22, 2009**

**Marriott Wardman Park
Washington, DC**



www.astmh.org



American Society of Tropical Medicine and Hygiene

60 Revere Drive
Suite 500
Northbrook, IL 60062 USA
Phone: 847/480-9592
Fax: 847/480-9282
info@astmh.org
<http://www.astmh.org>



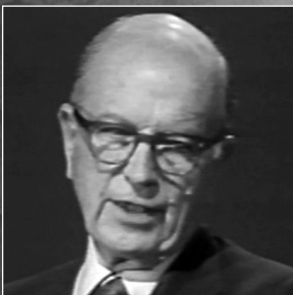
Calista and Ottis Causey



Thomas H. Weller



Robert Coatney



Alexander Langmuir



Telford H. Work

Workers in Tropical Medicine Video Presentation

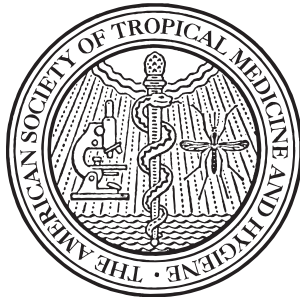
Franklin Hall Foyer

Workers in Tropical Medicine: Oral History Project Re-Initiated

Selected biographical videos of ASTMH members who have made important contributions to the field of tropical medicine will be shown at the annual meeting. A viewing station in the Franklin Hall Foyer has been reserved where interested visitors can view DVDs of their choice. DVD histories available include:

- Jordi Casals
- K.F. Meyer
- William Reeves
- Albert Sabin
- Thomas Weller
- Telford Work

And others.....

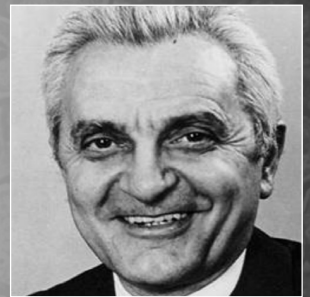


In addition, the Society has begun to produce new video biographies, with the intent of publishing these pieces in the ASTMH journal with links to the video/audio versions on the Web.

The first video of the new series is "Karl M. Johnson, MD: Life and Legend of a Leader in Tropical Virology," to be screened at the conference on Wednesday, November 7 from 12:15 p.m. – 1:15 p.m. This project has obvious importance to the field of tropical medicine and the Society. We urge you to visit the viewing area and value your comments and suggestions.



William C. Reeves



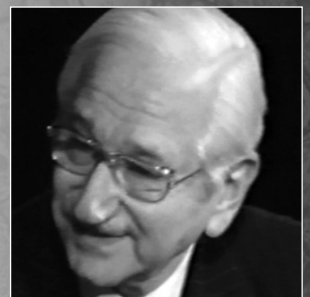
Jordi Casals-Ariet



Thomas P. Monath



Karl F. Meyer



Albert Sabin



Detailed Program

Friday, November 2

Pre-Meeting Course Registration

Grand Ballroom Foyer

Friday, November 2, 2007 4 p.m. - 6 p.m.

Saturday, November 3

Pre-Meeting Course Registration

Grand Ballroom Foyer

Saturday, November 3, 2007 7 a.m. - 1:30 p.m.

Parasitology Pre-Meeting Course: Systems Biology: Approaches to Understanding Infectious Disease

Salon F

Saturday, November 3, 2007 8:30 a.m. - 4:45 p.m.

This course targets scientists, physicians, clinicians, graduate students and educators with interests in the rapidly evolving field of systems biology and its use in understanding the complex interactions and pathways involved in infectious diseases. Topics include an overview of systems biology, database development and visualization tools, uncovering complex protein interactions, identifying large scale networks of interactions and how these efforts are being used to understand complex human biology and response to pathogens.

8:30 a.m.

COFFEE AND LIGHT CONTINENTAL BREAKFAST

9 a.m.

INTRODUCTION - COURSE GOALS AND OUTLINE

Daniel J. Carucci

Foundation for National Institutes of Health, Bethesda, MD, United States

Robert E.W. Hancock

University of British Columbia, Vancouver, BC, Canada

Alan Aderem

Institute for Systems Biology, Seattle, WA, United States

9:15 a.m.

INTRODUCTION TO SYSTEMS BIOLOGY

Alan Aderem

Institute for Systems Biology, Seattle, WA, United States

10 a.m.

COMPUTATIONAL SYSTEMS AND VISUALIZATION TOOLS

Robert E.W. Hancock

University of British Columbia, Vancouver, BC, Canada

10:45 a.m.

BREAK

Noon

Lunch (on your own)

1:30 p.m.

APIDB: A SYSTEMS BIOLOGY DATABASE OF APICOMPLEXAN PARASITES

David Roos

University of Pennsylvania, Philadelphia, PA, United States

2:15 p.m.

SYSTEMS BIOLOGY IN MALARIA

Elizabeth A. Winzeler

The Scripps Research Institute, La Jolla, CA, United States

3 p.m.

PROTEIN-PROTEIN INTERACTIONS: ROLE IN SYSTEMS BIOLOGY

Robert E. Hughes

Buck Institute for Age Research, Novato, CA, United States

3:45 p.m.

PANEL DISCUSSION

Clinical Pre-Meeting Course:

Chagas Disease (American Trypanosomiasis): No Longer an Exotic Disease

Salon E

Saturday, November 3, 2007 Noon - 5 p.m.

Recent implementation of donor screening for *Trypanosoma cruzi* infection by the American Red Cross and other blood banks across the United States highlights the urgent need for clinicians, laboratorians and public health professionals to understand Chagas disease, its diagnosis and treatment. In the United States, it is estimated that more than 100,000 immigrants have Chagas disease and most are unaware of their infection. This intensive course provides a comprehensive review of the disease for tropical disease experts, cardiologists, obstetricians, blood bankers and others. It covers the epidemiology of infection in Latin America, where 10-12 million persons are infected, and the situation outside of Latin America, such as in the United States, where in addition to infected immigrants, cases of Chagas disease have been transmitted by local vectors, by blood transfusion, by organ transplantation, congenitally and by laboratory accident.

The course focuses on the diagnosis and management of acute, chronic and congenital infections; cardiac and gastrointestinal complications; and considerations for special populations such as immunocompromised persons or pregnant mothers. In addition, there will be updates on the status of control programs in endemic countries, implementation of blood donor screening in the United States, scientific developments in diagnosis and treatment and the experience of the Centers for Disease Control and Prevention Drug Service, which is the sole source of anti-parasitic drug for Chagas disease in the United States. A series of case histories will illustrate the approach to the person with subclinical infection and other syndromes.

Noon

INTRODUCTION AND OVERVIEW

James Maguire

University of Maryland, Baltimore, MD, United States

Susan Montgomery

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

Parasite, Epidemiology and Control

12:15 p.m.

HISTORY OF CHAGAS DISEASE IN THE AMERICAS

James Maguire

University of Maryland, Baltimore, MD, United States

12:30 p.m.

TRYPANOSOMA CRUZI, TRANSMISSION AND PATHOGENESIS

Rick L. Tarleton

University of Georgia, Athens, GA, United States

1 p.m.

EPIDEMIOLOGY AND CONTROL

Caryn Bern

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

Ellen Dotson

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

Clinical Aspects and Management

1:45 p.m.

BREAK

2:15 p.m.

ACUTE, CONGENITAL AND REACTIVATED INFECTIONS

Sergio Sosa-Estani

Centro Nacional de Diagnóstico e Investigación de Endemo-epidemias (CeNDIE), ANLIS Dr. Carlos G. Malbrán, Buenos Aires, Argentina

3 p.m.

CHRONIC INFECTIONS: INDETERMINATE

Anis Rassi, Jr.

Anis Rassi Hospital, Goiania, Brazil

3:30 p.m.

CHRONIC INFECTIONS: CARDIAC

Anis Rassi, Jr.

Anis Rassi Hospital, Goiania, Brazil

4:15 p.m.

CHRONIC INFECTIONS: GASTROINTESTINAL

James Maguire

University of Maryland, Baltimore, MD, United States

4:45 p.m.

PANEL DISCUSSION

Speaker Ready Room

Rooms 413-415

Saturday, November 3, 2007 Noon - 5 p.m.

Sunday, November 4

Speaker Ready Room

Rooms 413-415

Sunday, November 4, 2007 7 a.m. - 6 p.m.

Clinical Pre-Meeting Course:

Chagas Disease (American Trypanosomiasis): No Longer an Exotic Disease

Salon E

Sunday, November 4, 2007 7:30 a.m. - 3 p.m.

7:30 a.m.

COFFEE AND LIGHT CONTINENTAL BREAKFAST

Diagnosis and Parasitological Treatment

8 a.m.

DIAGNOSIS

Louis Vaughn Kirchhoff

University of Iowa, Iowa City, IA, United States

9 a.m.

PARASITOLOGICAL TREATMENT

Sergio Sosa-Estani

Centro Nacional de Diagnóstico e Investigación de Endemo-epidemias (CeNDIE), ANLIS Dr. Carlos G. Malbrán, Buenos Aires, Argentina

10 a.m.

BREAK

Chagas in the United States

10:30 a.m.

CHAGAS DISEASE AND THE BLOOD SUPPLY

Susan Stramer

American Red Cross, Gaithersburg, MD, United States

David Leiby

American Red Cross, Rockville, MD, United States

11:15 a.m.

CENTERS FOR DISEASE CONTROL AND PREVENTION EXPERIENCES AND CHALLENGES FOR THE U.S.

Susan Montgomery

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

11:45 a.m.

PANEL DISCUSSION

Noon

LUNCH (ON YOUR OWN)

Detailed Program

1:30 p.m.

DIAGNOSIS, TREATMENT AND PREVENTION - SCIENTIFIC DEVELOPMENTS

Rick L. Tarleton

University of Georgia, Athens, GA, United States

2:15 p.m.

CASE PRESENTATIONS AND DISCUSSION

ASTMH Council Meeting

Rooms 305-306

Sunday, November 4, 2007 8 a.m. - 3 p.m.

Press Room

Room 403

Sunday, November 4, 2007 10 a.m. - 4 p.m.

Registration

Grand Ballroom Foyer

Sunday, November 4, 2007 10:30 a.m. - 6 p.m.

Cyber Cafe

Franklin Hall Foyer

Sunday, November 4, 2007 10:30 a.m. - 6 p.m.

Young Investigator Award Presentations

*In Honor of William A. Petri, Sr.
In Memory of Annie Liberati*

Supported with funding from TechLab Inc.

ASTMH will present the Young Investigator Award to outstanding young researchers during the 56th Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research.

Young Investigator Award Session A

Independence I

Sunday, November 4, 2007 11 a.m. - 3:30 p.m.

JUDGES

Subash Babu

National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

Stephen Davies

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Daniel J. Tisch

Case Western Reserve University, Cleveland, OH, United States

11 a.m.

684

BURDEN AND EPIDEMIOLOGY OF INFLUENZA-LIKE ILLNESS IN A PEDIATRIC COHORT IN NICARAGUA

Aubree Gordon¹, Guillermina Kuan², Oscar Ortega³, Miguel Reyes², Saira Saborio⁴, Angel Balmaseda⁵, Eva Harris⁶

¹Division of Epidemiology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ²Socrates Flores Vivas Health Center, Managua, Nicaragua, ³Sustainable Sciences Institute, Managua, Nicaragua, ⁴Department of Virology, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, ⁵Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ⁶Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

11:15 a.m.

428

EOSINOPHILIA AS A DIAGNOSTIC TOOL FOR ANGIOSTRONGYLIASIS

Kittisak Sawanyawisuth¹, Somsak Tiamkao², Pewpan M. Intapan², Panita Limpawattana², Wichai Senthong², Suthipun Jitpimolmard², Verajit Chotmongkol², Elizabeth B. Connor¹

¹University of California, San Diego, La Jolla, CA, United States, ²Khon Kaen University, Khon Kaen, Thailand

11:30 a.m.

457

DENGUE VIRUS CROSS-REACTIVE MOUSE OR HUMANIZED CHIMPANZEE MONOCLONAL ANTIBODIES FAVOR ENHANCED DENGUE VIRUS IMMUNE COMPLEX INFECTIVITY IN ENGINEERED HUMAN FC GAMMA RECEPTOR CD64 OR CD32-EXPRESSING CELLS

W. W. Shanaka I. Rodrigo¹, Ana P. Goncalvez², Xia Jin¹, Robert C. Rose¹, Ching-Juh Lai², Jacob J. Schlesinger¹

¹University of Rochester School of Medicine and Dentistry, Rochester, NY, United States, ²National Institutes of Health, Bethesda, MD, United States

11:45 a.m.

359

A RAPID HEALTH IMPACT ASSESSMENT OF THE AFRICAN PROGRAMME FOR ONCHOCERCIASIS CONTROL (APOC)

Wilma A. Stolk, Lennert J. Veerman, Sake J. de Vlas, J. Dik Habbema
Department of Public Health, Erasmus MC, Rotterdam, The Netherlands

Noon

948

TWO WEEKS OF REPEATED PARASITE EXPOSURES DO NOT INCREASE THE SUSCEPTIBILITY OF VACCINATED MICE TO HELMINTH INFECTIONS

Marc P. Hübner, Marina N. Torrero, Edward Mitre

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

12:15 p.m.

289

TRANSGENESIS OF *SCHISTOSOMA MANSONI* MEDIATED BY MURINE LEUKEMIA VIRUSKristine J. Kines¹, Maria E. Morales¹, Victoria H. Mann¹, Geoffrey N. Gobert², Paul J. Brindley¹¹Tulane University, New Orleans, LA, United States, ²Queensland Institute of Medical Research, Brisbane, Australia

12:30 p.m.

336

MOLECULAR AND EVOLUTIONARY EPIDEMIOLOGY OF *SCHISTOSOMA MANSONI* IN HUMAN HOSTSMichelle L. Steinauer¹, Ian J. Wilson², Gerald M. Mkoji³, Eric L. Agola³, Ibrahim Ndugu³, Geoffrey Maina³, Diana Karanja⁴, Eric S. Loker¹¹University of New Mexico, Albuquerque, NM, United States, ²University of Newcastle upon Tyne, Newcastle upon Tyne, United Kingdom, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Kenya Medical Research Institute, Kisumu, Kenya

12:45 p.m.

786

IDENTIFYING *TRYPANOSOMA CRUZI* INFECTION IN CHILDREN DURING A VECTOR CONTROL CAMPAIGNMichael Z. Levy¹, Vivian Kawai², Natalie M. Bowman², Lance A. Waller¹, Lilia Cabrera², Viviana V. Pinedo-Cancino², Amy E. Seitz¹, Frank J. Steurer³, Juan G. Cornejo del Carpio⁴, Eleazar Cordova-Benzaquen⁵, James H. Maguire⁶, Robert H. Gilman⁷, Caryn Bern³¹Emory University, Atlanta, GA, United States, ²AB Prisma, Lima, Peru, ³Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Dirección Regional del Ministerio de Salud, Arequipa, Peru, ⁵AB Prisma, Arequipa, Peru, ⁶University of Maryland, Baltimore, MD, United States, ⁷Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

1 p.m.

BREAK

1:30 p.m.

999

THE ROLE OF SOCIAL EXCLUSION AND DEFORESTATION IN THE SPATIO-TEMPORAL PATTERNS OF CUTANEOUS LEISHMANIASIS IN COSTA RICALuis F. Chaves, Justin M. Cohen, Mercedes Pascual, Mark L. Wilson
University of Michigan, Ann Arbor, MI, United States

1:45 p.m.

792

IMMUNO-EPIDEMIOLOGY OF VISCERAL LEISHMANIASIS IN A COHORT OF BRAZILIAN DOGSSeyi Soremekun¹, Rupert Quinnell², Lourdes Garcez³, Paul Bates⁴, Matthew Rogers⁵, Orin Courtenay¹¹University of Warwick, Coventry, United Kingdom, ²University of Leeds, Leeds, United Kingdom, ³Instituto Evandro Chagas, Belem, Brazil, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵London School of Hygiene and Tropical Medicine, London, United Kingdom

2 p.m.

149

THE ROLE OF ACRIFLAVIN IN THE PROLIFERATION OR INHIBITION OF *TRYPANOSOMA MUSCULI* BY INDUCING APOPTOSIS WITH SPECIFIC BINDING AFFINITY TO KDNA OF THE PARASITE *IN VITRO* AND *IN VIVO*Dereje D. Gimite, Mohammad Ashraf, Clarence M. Lee
Howard University, Washington, DC, United States

2:15 p.m.

624

A PARATRANSGENIC APPROACH TO CONTROL OF VISCERAL LEISHMANIASIS: AEROBIC GUT BACTERIAL IDENTIFICATION FROM *PHLEOTOMUS ARGENTIPUS*Amber L. Read¹, Ravi Durvasula¹, Ivy Hurwitz¹, Bobban Subhadra¹, Mathews Scott¹, Kashinath Ghosh², Robin McKelvey¹, Heidi Hillesland¹, Pradeep Das³¹University of New Mexico, Albuquerque, NM, United States, ²Walter Reed Army Research Institute, Washington, DC, United States, ³Rajendra Memorial Research Institute of Medical Sciences, Patna, India

2:30 p.m.

175

MALARIA CONTROL IN THE MUNICIPALITY OF SAN ESTEBAN, HONDURAS, CENTRAL AMERICAChristine E. Bell¹, Stanley O. Foster¹, Laurence Slutsker², Raymond Beach², German Jimenez³, Maria Sarmiento⁴¹Rollins School of Public Health, Emory University, Atlanta, GA, United States, ²Centers for Disease Control and Prevention/CCID/INCVZVED, Atlanta, GA, United States, ³Honduras Outreach Inc., San Esteban, Honduras, ⁴Municipal Health Promoter, San Esteban, Honduras

2:45 p.m.

697

RISK FACTORS FOR MALARIA IN A RURAL AMAZONIAN COHORT (GRANADA, ACRE, BRAZIL)Mônica da Silva-Nunes¹, Natália T. Komatsu¹, Camila Juncansen¹, Rosane R. D'Arcádia¹, Erika H. Hoffmann¹, Estéfano A. Souza¹, Natal S. Silva¹, Melissa S. Bastos², Sandra L. Moraes-Ávila², Rosely S. Malafrente², Kézia K. Scopel³, Érika M. Braga³, Carlos E. Cavasini⁴, Pascoal T. Muniz⁵, Irene S. Soares¹, Marcelo U. Ferreira¹¹Universidade de São Paulo, São Paulo - SP, Brazil, ²Instituto de Medicina Tropical, São Paulo - SP, Brazil, ³Universidade Federal de Minas Gerais, Belo Horizonte - MG, Brazil, ⁴Faculdade de Medicina de São José do Rio Preto, São José do Rio Preto - SP, Brazil, ⁵Universidade Federal do Acre, Rio Branco - AC, Brazil

3 p.m.

596

STUDIES ON INSECTICIDE USAGE PATTERN AND RESISTANCE STATUS OF *ANOPHELES GAMBIAE* S.S IN THE ASHANTI REGION OF GHANAJoseph B. Stiles-Ocran¹, Michael D. Wilson¹, Margaret T. Frempong², Williams K. Owiredo², Daniel A. Boakye¹¹Noguchi Memorial Institute for Medical Research, Legon, Accra, Ghana, ²Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Detailed Program

3:15 p.m.

890

DETECTING *WUCHERERIA BANCROFTI* IN *Aedes polynesiensis* MOSQUITOES FROM AMERICAN SAMOA: A COMPARISON OF PCR WITH HAEMALUM STAINING AND DISSECTION**Eric W. Chambers**¹, Melissa F. Avery¹, Mark A. Schmaedick², Patrick J. Lammie¹, Thomas R. Burkot¹¹Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Division of Community and Natural Resources, American Samoa Community College, Pago Pago, American Samoa**Young Investigator Award Session B***Independence II*

Sunday, November 4, 2007 11 a.m. - 3:30 p.m.

JUDGES**Kathryn S. Aultman***Bill & Melinda Gates Foundation, Seattle, WA, United States***Brenda T. Beerntsen***University of Missouri-Columbia, Columbia, MO, United States***Nicholas Komar***Centers for Disease Control and Prevention, Fort Collins, CO, United States*

11 a.m.

105

STUDY ON THE CORRELATIONS AMONG OF CLIMATE FACTORS, MOSQUITO INDICES AND EPIDEMICS OF DENGUE IN KAOHSIUNG, TAIWAN**Chuin-Shee Shang**¹, Chung-Ming Liu², Yi-Shiuan Li¹, Chwan-Chuen King¹¹Institute of Epidemiology, College of Public Health, National Taiwan University, Taipei City, Taiwan, ²Global Change Researching Center, National Taiwan University, Taipei City, Taiwan

11:15 a.m.

108

LONG-TERM CLIMATE AND ENDEMIC DENGUE TRANSMISSION**Michael Johansson**¹, Greg Glass²¹Centers for Disease Control and Prevention, San Juan, PR, United States, ²Johns Hopkins School of Public Health, Baltimore, MD, United States

11:30 a.m.

686

DEFINITION OF THE MAJOR DETERMINANT RESPONSIBLE FOR NEUROVIOLENCE OF JAPANESE ENCEPHALITIS VIRUS**Yoko Nukui**, Shigeru Tajima, Chang Kweng Lim, Reiko Nerome, Tomohiko Takasaki, Ichiro Kurane*Department of Virology I, National Institute of Infectious Diseases, Tokyo, Japan*

11:45 a.m.

468

INTRACELLULAR LOCALIZATION, MEMBRANE ASSOCIATION AND PROCESSING OF WNV NY99 STRAIN NS4B**Pakieli H. Kaufusi**, Richard Yanagihara, Vivek R. Nerurkar*University of Hawaii, Honolulu, HI, United States*

Noon

691

PATHOGENESIS OF CHIKUNGUNYA VIRUS INFECTION IN MICE**Sarah A. Ziegler**, Liang Lu, Shu-Yuan Xiao, Robert B. Tesh*University of Texas Medical Branch, Galveston, TX, United States*

12:15 p.m.

612

CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS ENCODES AN NSM PROTEIN**Louis A. Altamura**¹, Jose Stubbs¹, Connie S. Schmaljohn², Robert W. Doms¹¹University of Pennsylvania, Philadelphia, PA, United States, ²United States Army Medical Research Institute for Infectious Diseases, Fort Detrick, Frederick, MD, United States

12:30 p.m.

927

THE MINIMAL DOMAIN OF THE EASTERN EQUINE ENCEPHALITIS VIRUS CAPSID NECESSARY FOR INHIBITION OF HOST GENE EXPRESSION IS REQUIRED FOR VIRAL PATHOGENESIS**Patricia V. Aguilar**¹, Lawrence W. Leung¹, Eryu Wang², Scott C. Weaver², Christopher F. Basler¹¹Mount Sinai School of Medicine, New York, NY, United States, ²University of Texas Medical Branch, Galveston, TX, United States

12:45 p.m.

990

EXAMINATION OF RIFT VALLEY FEVER VIRUS ENTRY DETERMINANTS USING SIRNA**Claire Marie Filone**, Robert W. Doms, Sara Cherry*University of Pennsylvania, Philadelphia, PA, United States*

1 p.m.

BREAK

1:30 p.m.

942

LOCALIZATION OF NOVEL -CARBONIC ANYDRASES FROM THE LARVAE OF ANOPHELES GAMBIAE AND Aedes Aegypti**Kristin E. Smith**, Leslie A. VanEkeris, Paul J. Linsler*University of Florida, Saint Augustine, FL, United States*

1:45 p.m.

870

GENETIC LINKAGE MAPPING IN THE WEST NILE VIRUS VECTOR CULEX TARSALISMeera Venkatesan¹, Morgan Sellers², Jason L. Rasgon¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins University, Baltimore, MD, United States

2 p.m.

253

THE ROLE OF FLIGHT TONE CHARACTERISTICS ON MATE SELECTION OF THE YELLOW FEVER MOSQUITO Aedes Aegypti

Lauren J. Cator

Cornell University, Ithaca, NY, United States

2:15 p.m.

584

MOSQUITOES IN SPACE AND TIME: METEOROLOGIC AND EDAPHIC FACTORS AFFECTING Culex tarsalis ABUNDANCE IN CALIFORNIAChristopher M. Barker¹, William K. Reisen¹, Bruce F. Eldridge¹, Wesley O. Johnson², Jeff Gill¹¹University of California, Davis, CA, United States, ²University of California, Irvine, CA, United States

2:30 p.m.

1027

A MEANS TO AN END: COMPARATIVE ANALYSIS OF CHROMOSOMAL INVERSIONS FREQUENCY AND DISTRIBUTION IN THE MAJOR MALARIA VECTORS Anopheles gambiae AND Anopheles funestus ACROSS ECOLOGICALLY DIVERSE ENVIRONMENTS IN CAMEROONDiego Ayala¹, Kenji Ose², Jean Pierre Agbor³, Carlo Costantini⁴, Nora J. Besansky⁵, Frederic Simard³, Didier Fontenille¹¹Institut de Recherche pour le Développement, Unité de Recherche R016, Montpellier, France, ²Institut de Recherche pour le Développement, Unité de Service US140, Orleans, France, ³Organisation de coordination pour la lutte contre les grandes endémies en Afrique centrale, Yaounde, Cameroon, ⁴Institut de Recherche pour le Développement, Unité de Recherche R016, Bobo-dioulasso, Burkina Faso, ⁵Center for Global Health and Infectious Diseases, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States

2:45 p.m.

1024

A NEW ROBUST DIAGNOSTIC POLYMERASE CHAIN REACTION (PCR) FOR DETERMINING THE MATING STATUS OF FEMALE An. Gambiae MOSQUITOESKija R. Ng'habi¹, Ashley Horton², Bart GJ Knols³, Gregory C. Lanzaro²¹Ifakara Health Research and Development Centre, Morogoro, United Republic of Tanzania, ²University of California, Davis, CA, United States, ³Wageningen University and Research Centre, Wageningen, The Netherlands

3 p.m.

260

CHARACTERIZING SPECIES DIVERSITY OF VECTORS IMPLICATED IN NON-TRADITIONAL EEE TRANSMISSION IN TENNESSEESudeshna Mukherjee¹, Beth Huddleston¹, Erin Moody², Kenneth Lewockzo², Ron Wilson³, John Dunn¹, Tim F. Jones¹, Abelardo C. Moncayo¹¹Tennessee Department of Health, Nashville, TN, United States, ²Union University, Jackson, TN, United States, ³Tennessee Department of Agriculture, Nashville, TN, United States

3:15 p.m.

1039

TRANSCRIPTOMIC ANALYSIS AND TEMPORAL EXPRESSION PROFILING OF THE MIDGUT OF THE SAND FLY Lutzomyia longipalpis IN BLOOD FEEDING AND INFECTION WITH Leishmania chagasiRyan C. Jochim¹, Clarissa R. Teixeira², Regis B. Gomes², Andre Laughinghouse², Dia-eldin Elnaiem², Jianbing Mu², Luiz F. Oliveira², Jesus G. Valenzuela²¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²National Institute of Allergy and Infectious Diseases, Rockville, MD, United States**Young Investigator Award Session C**

Independence III

Sunday, November 4, 2007 11 a.m. - 3:30 p.m.

JUDGES

Roland A. Cooper

Old Dominion University, Norfolk, VA, United States

Miriam Laufer

University of Maryland, Baltimore, MD, United States

Julian C. Rayner

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

11 a.m.

3

PRIMARY HUMAN SPLENIC MACROPHAGES ARE THE PRINCIPAL TARGET CELLS FOR DENGUE VIRUS INFECTION EX VIVO

Zhihua Kou, Shanley Blackley, Huiyuan Chen, Matthew Quinn, Robert C. Rose, Jacob J. Schlesinger, Myra Coppage, Xia Jin

University of Rochester, Rochester, NY, United States

11:15 a.m.

1048

IDENTIFICATION OF DEVELOPMENTALLY REGULATED GENES IN ENTAMOEBA HISTOLYTICA

Gretchen M. Ehrenkauser

Stanford University, Stanford, CA, United States

Detailed Program

11:30 a.m.

776

P-GLYCOPROTEIN-LIKE PROTEIN, A PROMISING GENETIC MARKER TO FOLLOW POTENTIAL IVERMECTIN RESISTANCE IN *ONCHOCERCA VOLVULUS*

Catherine Bourguinat¹, Bernadette F. Ardelli², Sebastien D. Pion³, Joseph Kamgno⁴, Jacques Gardon⁵, Brian O. Duke⁶, Michel Boussinesq⁷, Roger K. Prichard¹

¹Institute of Parasitology, McGill University, Sainte-Anne-de-Bellevue, QC, Canada, ²Department of Zoology, Brandon University, Brandon, MB, Canada, ³Laboratoire de Neuroparasitologie et Neuroépidémiologie Tropicale, Faculté de Médecine, Limoges, France, ⁴National Onchocerciasis Task Force Cameroon, Yaounde, Cameroon, ⁵UR 24 Epidémiologie et Prévention, Institut de Recherche pour le Développement, La Paz, Bolivia, ⁶River Blindness Foundation, Lancaster, United Kingdom, ⁷UR 24 Epidémiologie et Prévention, Institut de Recherche pour le Développement, Paris, France

11:45 a.m.

144

THE MAJOR SURFACE PROTEASE OF THE AMASTIGOTE STAGE OF *LEISHMANIA CHAGASI*

Chia-Hung Christine Hsiao¹, Chaoqun Yao², Patricia A. Storlie¹, John E. Donelson¹, Mary E. Wilson²

¹University of Iowa, Iowa City, IA, United States, ²The VA Medical Center and University of Iowa, Iowa City, IA, United States

Noon

147

CHARACTERIZATION OF *TRYPANOSOMA BRUCEI* CA²⁺ CHANNEL: A POTENTIAL DRUG AND VACCINE TARGET IN TRYPANOSOMES

Kiantra I. Ramey, Nana Wilson, Lucky Nwankwo, Zuzana Kucerova, Winston Thompson, Jonathan K. Stiles

Morehouse School of Medicine, Atlanta, GA, United States

12:15 p.m.

1053

MULTIPLY PARASITIZED ERYTHROCYTES ARE ASSOCIATED WITH INCREASED SEVERITY OF MALARIA

Lindsey Turnbull¹, Nicholas Connors¹, Karl Seydel², Danny Milner³, Linda Kalilani⁴, Miriam Laufer⁵, Christopher Plowe⁵, Terrie Taylor²

¹Blantyre Malaria Project, Blantyre, Malawi, ²College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, ³Brigham and Women's Hospital, Boston, MA, United States, ⁴University of Malawi College of Medicine, Blantyre, Malawi, ⁵University of Maryland School of Medicine, Baltimore, MD, United States

12:30 p.m.

1057

IMPACT OF ARTMISININ-BASED COMBINATION THERAPY ON MALARIA TRANSMISSION IN MALI

Bakary Fofana, Adama Dao, Cheick Omar Kone, Bakary Sidibe, Sekou Toure, Sekou Koumare, Demba Dembele, Abdoulaye Toure, Ogobara K. Doumbo, Abdoulaye A. Djimde

University of Bamako, Bamako, Mali

12:45 p.m.

485

USE OF GLOBAL PROTEOMICS TO DEFINE PROTEIN PROFILES OF SEVERE DISEASE: AN INVESTIGATION ON SEVERE MALARIA

Evelyn N. Gitau

Kenya Medical Research Institute (KEMRI)/Centre for Geographic Medicine Research (CGMR)-Coas, Kilifi, Kenya

1 p.m.

BREAK

1:30 p.m.

1017

MOLECULAR MARKERS OF THE PATHOGENESIS OF CEREBRAL MALARIA IN THE MURINE MALARIA PLASMODIUM BERGHEI

Miranda Oakley¹, Laurence Faucette¹, Victoria Majam², Hong Zheng², Babita Mahajan², Cindy Erexson¹, Jerrold Ward¹, Thomas McCutchan¹, Sanjai Kumar²

¹National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²FDA, Rockville, MD, United States

1:45 p.m.

531

DNA MISMATCH REPAIR IN *PLASMODIUM FALCIPARUM*: POSSIBLE MECHANISM FOR ACCELERATED DRUG RESISTANCE

Meryl Castellini, Jeff Buguliskis, Theodore F. Taraschi

Thomas Jefferson University, Philadelphia, PA, United States

2 p.m.

533

ASSESSING THE ORIGIN AND SPREAD OF DIHYDROFOLATE REDUCTASE AND DIHYDROPTEROATE SYNTHASE MUTANT ALLELES IN *PLASMODIUM VIVAX* POPULATIONS

Vivian N. Hawkins, Stephanie Suzuki, **Carol Hopkins Sibley**

University of Washington, Seattle, WA, United States

2:15 p.m.

300

THE ACQUISITION OF INVASION INHIBITORY ANTIBODIES AND ANTIBODIES TO ERYTHROCYTE INVASION LIGANDS OF *P. FALCIPARUM*

Fiona McCallum¹, Kristina Persson¹, Cleopatra Mugenyi², Linda Reiling¹, Jack Richards¹, Tom Williams², Robin Anders³, Alan Cowman¹, Kevin Marsh², James Beeson¹

¹The Walter and Elisa Hall Institute of Medical Research, Parkville, Australia,

²Centre for Geographic Medicine Research, Kenya Medical Research

Institute, Kilifi, Kenya, ³Latrobe University, Melbourne, Australia

2:30 p.m.

320

INFECTION-INDUCED CYTOKINE PRODUCTION INFLUENCES THE SUPPRESSION OF *PLASMODIUM YOELII* PARASITEMIA FOLLOWING PROTECTIVE IMMUNIZATION

Patricia M. Petritus, James M. Burns
Drexel University College of Medicine, Philadelphia, PA, United States

2:45 p.m.

550

THE ROLE OF PFRH INVASION LIGANDS AS TARGETS OF ANTIBODIES THAT PROTECT AGAINST *P. FALCIPARUM* MALARIA

Linda Reiling¹, Jack S. Richards¹, Fiona J. MacCallum¹, Kristina E. Persson¹, Katherine Howell¹, Sam Kinyanjui², Kevin Marsh², Ivo Mueller³, Alan F. Cowman¹, James G. Beeson¹

¹The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ²Centre for Geographic Medicine Research, Kenya Medical Research Institute, Kilifi, Kenya, ³Papua New Guinea Institute of Medical Research, Goroka, Eastern Highlands Province, Papua New Guinea

3 p.m.

557

SELENIUM LEVELS, MALARIA AND ENDEMIC BURKITT'S LYMPHOMA IN WESTERN KENYA

Peter O. Sumba¹, Michael Otieno², Dickens Kowuor¹, Chelimo Kiptotich¹, Alloys S. Orago², Paula Rosenbaum³, Ann M. Moormann⁴, Rosemary Rochford³

¹Kenya Medical Research Institute, Kisumu, Kenya, ²Kenyatta University, Nairobi, Kenya, ³SUNY Upstate Medical University, Syracuse, NY, United States, ⁴Case Western Reserve University, Cleveland, OH, United States

3:15 p.m.

36

DEVELOPMENTAL ARREST OF MALARIA PARASITES IN MOSQUITOES FOLLOWING TREATMENT OF MICE WITH AS-I-145

Lisa A. Purcell¹, Stephanie K. Yanow¹, Gabriele Pradel², Ana Rodriguez³, Moses Lee⁴, Terry W. Spithill¹

¹McGill University, Institute of Parasitology and Centre for Host-Parasite Interactions, Sainte-Anne-de-Bellevue, QC, Canada, ²University of Würzburg, Research Center for Infectious Diseases, Würzburg, Germany, ³Department of Medical Parasitology, New York University School of Medicine, New York, NY, United States, ⁴Hope College, Division of Natural and Applied Sciences and Department of Chemistry, Holland, MI, United States

Young Investigator Award Session D

Liberty A

Sunday, November 4, 2007 11 a.m. - 3:30 p.m.

JUDGES

Christopher L. King
Case Western Reserve University, Shaker Heights, OH, United States

Sanjai Kumar
U.S. Food and Drug Administration, Rockville, MD, United States

Peter Zimmerman
Case Western Reserve University, Cleveland, OH, United States

11 a.m.

679

EVALUATION OF A MICROCOLONY DETECTION METHOD AND PHAGE ASSAY FOR RAPID DETECTION OF MYCOBACTERIUM TUBERCULOSIS IN SPUTUM SAMPLES

Seema Irfan
The Aga Khan University Hospital, Karachi, Pakistan

11:15 a.m.

778

WHOLE GENOME AMPLIFICATION AND OLIGONUCLEOTIDE ARRAY HYBRIDIZATION FOR GENOMIC CHARACTERIZATION OF FILARIAL PARASITES

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

11:30 a.m.

133

DEVELOPMENT OF DNA ASSAYS, IN SOIL-TRANSMITTED NEMATODE PARASITES OF HUMANS, FOR THE DETECTION OF SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) ASSOCIATED WITH BENZIMIDAZOLE RESISTANCE

Aissatou Diawara¹, Lesley J. Drake², Richard R. Suswillo², Don A. Bundy³, Roger K. Prichard¹

¹McGill, Montreal, QC, Canada, ²Imperial College School of Medicine, London, United Kingdom, ³World Bank, Washington DC, WA, United States

11:45 a.m.

142

ROLE OF MAP KINASE ERK IN ALTERING DENDRITIC CELL MATURATION AND CELL-MEDIATED IMMUNE RESPONSE TO *LEISHMANIA AMAZONENSIS* INFECTION

Paola M. Boggiatto, Fei Jei, Rami Mukbel, Mousumi Ghosh, Douglas E. Jones, Christine A. Petersen
Iowa State University, Ames, IA, United States

Noon

143

THE ROLE OF B CELLS IN THE CELL-MEDIATED IMMUNE RESPONSE TO *LEISHMANIA AMAZONENSIS*

Katherine N. Gibson-Corley, Rami Mukbel, Christine Petersen, Douglas Jones
Iowa State University, Ames, IA, United States

12:15 p.m.

669

EFFECT OF DRUG TREATMENT ON THE DEVELOPMENT OF CD8+ T CELL MEMORY SUBSETS IN *TRYPANOSOMA CRUZI* INFECTION

Juan Bustamante¹, Rick Tarleton²
¹Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States, ²Center for Tropical and Emerging Global Diseases and Department of Cellular Biology, University of Georgia, Athens, GA, United States

Detailed Program

12:30 p.m.

937

THE PLASMODIUM SPOROZOITE AND ERYTHROCYTIC STAGE (SES) PROTEIN HAS A UNIQUE SURFACE LABELING PATTERN ON THE SPOROZOITE AND APPEARS TO PLAY A ROLE IN SPOROZOITE INVASION OF MOSQUITO SALIVARY GLANDS

Alexis N. LaCrue, Roy J. Lowery, Renee N. Roberts, Michael M. Kariuki, Brenda T. Beerntsen

University of Missouri-Columbia, Columbia, MO, United States

12:45 p.m.

937

THE IMPACT OF HIV-1 ON THE MALARIA PARASITE BIOMASS IN SUB-SAHARAN AFRICA AND ITS POSSIBLE CONTRIBUTION TO THE EMERGENCE AND SPREAD OF ANTIMALARIAL DRUG RESISTANCE

Jean-Pierre Van geertruyden¹, Joris Menten¹, Robert Colebunders¹, Eline Korenromp², Umberto D'Alessandro¹

¹Prince Leopold Instituut voor Tropische Geneeskunde, Antwerpen, Belgium,

²Department of Public Health, University Medical Centre Rotterdam, Rotterdam, The Netherlands

1 p.m.

BREAK

1:30 p.m.

703

IMPACT OF MATERNAL MALARIA AND UNDER-NUTRITION ON INTRAUTERINE GROWTH RESTRICTION: A PROSPECTIVE COHORT STUDY IN DEMOCRATIC REPUBLIC OF CONGO

Sarah Landis¹, Victor Lokomba², Joseph Atibu², Cande Ananth³, Robert Ryder⁴, Katherine Hartmann⁵, John Thorp¹, Antoinette Tshetu², Steven Meshnick¹

¹UNC-Chapel Hill, Chapel Hill, NC, United States, ²UNC-DRC Project, Kinshasa, Democratic Republic of the Congo, ³University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School, New Brunswick, NJ, United States, ⁴Boston University School of Public Health, Boston, MA, United States, ⁵Vanderbilt University Medical Center, Nashville, TN, United States

1:45 p.m.

199

B CELL ACTIVITY IN CHILDREN WITH SEVERE MALARIAL ANEMIA

Jackson C. Korir¹, Ronald P. Taylor², John N. Waitumbi¹

¹Walter Reed Project/KEMRI, Kisumu, Kenya, ²Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine, Charlottesville, VA, United States

2 p.m.

45

A NON-ADJUVANTED SELF-ASSEMBLING POLYPEPTIDE NANOPARTICLE (SAPN) MALARIA VACCINE CONFERS STERILE PROTECTION TO LETHAL SPOROZOITE CHALLENGE

Stephen A. Kaba¹, Clara Brando¹, David Tropel², Peter Burkhard³, David Lanar¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²M.E. Mueller Institute for Structural Biology, Basel, Switzerland, ³Alpha-O Peptides AG, Allschwil, Switzerland

2:15 p.m.

1012

DEVELOPMENT OF TRANSGENIC *PLASMODIUM BERGHEI* EXPRESSING *P. FALCIPARUM* SEXUAL ANTIGEN PFS25 FOR *IN VIVO* ASSESSMENT OF TRANSMISSION BLOCKING IMMUNITY

Godfree Mlambo, Jorge Maciel, Nirbhay Kumar

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

2:30 p.m.

43

REPRODUCIBILITY OF A SPOROZOITE CHALLENGE MODEL FOR *PLASMODIUM VIVAX* IN HUMAN VOLUNTEERS

Johanna A. Parra¹, Leonardo Rocha², Ricardo Palacios³, Juan Diego Velez⁴, Judith Epstein⁵, Tom Richie⁶, Myriam Arevalo-Herrera¹, Socrates Herrera¹

¹Malaria Vaccine and Drug Testing Center, Cali, Colombia, ²Immunology Institute, Cali, Colombia, ³Praca Marisa Marques-University Sao Pablo, Sao Pablo, Brazil, ⁴Fundación Clínica Valle de Lili, Cali, Colombia, ⁵Malaria Program, Naval Medical Research Center, Silver Spring, MD, United States, ⁶Malaria Program, Naval Medical Research Center, Silver Spring, MD, United States

2:45 p.m.

14

DYNAMICS OF POLYMORPHISM IN *PLASMODIUM FALCIPARUM* APICAL MEMBRANE ANTIGEN-1 OVER THREE YEARS AT A VACCINE-TESTING SITE IN MALI

Shannon Takala¹, Amed Ouattara¹, Drissa Coulibaly², Mahamadou A. Thera², Alassane Dicko², Ando B. Guindo², Abdoulaye K. Kone², Karim Traore², Abdoulaye Djimde², Kirsten E. Lyke¹, Dapa A. Diallo², Ogobara K. Doumbo², Christopher V. Plowe¹

¹University of Maryland School of Medicine, Baltimore, MD, United States,

²Malaria Research and Training Center, University of Bamako, Bamako, Mali

3 p.m.

38

PLASMODIUM FALCIPARUM GENETIC STRUCTURE IN THE FOUR MAJOR AFRICAN ANOPHELES VECTORS

Zeinab Annan¹, Patrick Durand¹, Parfait Awono-Ambene², Frédéric Simard², Céline Arnathau¹, François Renaud¹, Didier Fontenille³

¹Centre National de la Recherche Scientifique/Institut de Recherche pour le Développement, Montpellier, France, ²Institut de Recherche pour le Développement, Organisation de lutte Contre les Endémies en Afrique Centrale, Yaoundé, Cameroon, ³Institut de Recherche pour le Développement, Montpellier, France

3:15 p.m.

100

MALARIA TRANSMISSION INTENSITY AND MORBIDITY PATTERNS IN PARTS OF THE IMO RIVER BASIN, SOUTH EASTERN NIGERIA

Uchekwkw M. Chukwuocha¹, Ikechi N. Dozie², Betram E. Nwoke², Celestine O. Onwuliri¹, Okwuoma C. Abanobi¹

¹Federal University of Technology, Owerri, Nigeria, ²Imo State University, Owerri, Nigeria

Young Investigator Award Session E

Liberty C

Sunday, November 4, 2007 11 a.m. - 3:30 p.m.

JUDGES

Joseph M. Vinetz

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

David Williams

Illinois State University, Normal, IL, United States

Yimin Wu

National Institutes of Health/National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

11 a.m.

762

THE ROLE OF T CELLS IN DENGUE VIRUS INFECTION

Lauren E. Yauch, Sujan Shresta

La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States

11:15 a.m.

372

STRAIN CHARACTERISATION OF HUMAN HYDATIDOSIS IN SUDAN

Rihab A. Omer¹, Anke Dinkel², Thomas Romig², Ute Mackenstedt², Mohamed Elamin³, Ayman Elnahas⁴, Imad Aradaib⁴

¹Central Veterinary Research Laboratories, Khartoum, Sudan, ²Institute of Parasitology, University of Hohenheim, Stuttgart, Germany, ³Elshab Teaching Hospital, Khartoum, Sudan, ⁴Faculty of Veterinary Medicine, University of Khartoum, Khartoum, Sudan

11:30 a.m.

98

IMMUNIZATION WITH LEPTOSPIRAL IMMUNOGLOBULIN-LIKE (LIG) PROTEIN WITH ALUMINIUM HYDROXIDE ADJUVANT CONFERS STERILIZING IMMUNITY IN THE HAMSTER MODEL FOR LEPTOSPIROSIS

Flavia W. McBride¹, Marco Medeiros², Alan J. McBride¹, Claudio P. Figueira¹, Gabriela Esteves², Adenizar Chagas Júnior¹, Cleiton Santos¹, James Matsunaga³, David Haake³, Akira Homma², Ricardo Galler², Mitermayer G. Reis¹, Albert I. Ko⁴

¹Oswaldo Cruz Foundation, Salvador, Brazil, ²Oswaldo Cruz Foundation, Rio de Janeiro, Brazil, ³School of Medicine, University of California at Los Angeles, Los Angeles, CA, United States, ⁴Weil Medical College of Cornell University, New York, NY, United States

11:45 a.m.

961

EFFICACY OF PYRVINIUM PAMOATE AGAINST CRYPTOSPORIDIUM PARVUM INFECTION IN VITRO AND IN A NEONATAL MOUSE MODEL

Autumn S. Girouard¹, David J. Sullivan¹, Curtis R. Chong², Thaddeus K. Graczyk¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins University School of Medicine, Baltimore, MD, United States

Noon

631

KILLED BUT METABOLICALLY ACTIVE (KBMA) LEISHMANIA - A NOVEL PROTOZOAN VACCINE TECHNOLOGY FOR VISCERAL LEISHMANIASIS THAT IS ENHANCED BY TOLL-LIKE RECEPTOR ACTIVATION

Ron A. Birnbaum, Stephanie Greger, Thu A. Tran, Jacquelyn N. Haskell, Rupa Narayan, Pei L. Cheng, Kevin W. Bruhn, Noah Craft

Los Angeles Biomedical Research Institute, Division of Dermatology, Harbor-UCLA Medical Center, UCLA School of Medicine, Torrance, CA, United States

12:15 p.m.

648

HUMAN DEFENSIN α -1 KILLS TRYPANOSOMA CRUZI VIA MEMBRANE PORE FORMATION LEADING TO APOPTOSIS

M. Nia Madison, Yuliya Kleshchenko, Pius Nde, Kaneatra Simmons, Maria F. Lima, Fernando Villalta

Meharry Medical College, Nashville, TN, United States

12:30 p.m.

314

NEUTROPHILS DOMINATE THE EARLY INFLAMMATORY RESPONSE DURING ACUTE INTRADERMAL INFECTION WITH LEISHMANIA CHAGASI

Colin J. Thalhoffer¹, A. Paige Davis¹, Mary E. Wilson²

¹University of Iowa, Iowa City, IA, United States, ²University of Iowa, VA Medical Center, Iowa City, IA, United States

Detailed Program

12:45 p.m.

1016

**APOPTOSIS STALKS AN EXPONENTIALLY GROWING
PLASMODIUM FALCIPARUM CULTURE****Beth K. Mutai**, John N. Waitumbi*Walter Reed Project/Kenya Medical Research Institute, Kisumu, Kenya*

1 p.m.

BREAK

1:30 p.m.

809

**ENHANCED DETECTION OF GAMETOCYTES PREDICTS HIGHER
POTENTIAL FOR *PLASMODIUM FALCIPARUM* TRANSMISSION****Stephan Karl**¹, Brian T. Grimberg², Lee R. Moore³, Makindi David⁴,
Pascal Michon⁴, Ivo Mueller⁵, Maciej Zborowski³, Peter A.
Zimmerman²¹University of Technology Dresden, Dresden, Germany, ²The Center of
Global Health and Disease, Case Western Reserve University, Cleveland, OH,
United States, ³Cleveland Clinics, Lerner Research Institute, Department of
Biomedical Engineering, Cleveland, OH, United States, ⁴Molecular
Parasitology Unit, Molecular Parasitology Unit, Institute of Medical Research
Papua New Guinea, Madang, Papua New Guinea, ⁵Vector Borne Diseases,
Goroka, Papua New Guinea

1:45 p.m.

939

**AMPLIFICATION OF THE PFMDR1 LOCUS IN *PLASMODIUM
FALCIPARUM* IS LINKED TO PLEIOTROPIC TRANSCRIPTIONAL
REGULATION****Joseph M. Gonzales**¹, Jigar J. Patel¹, Napawan Ponmee², Lei
Jiang², Pradip K. Rathod², Michael T. Ferdig¹¹University of Notre Dame, Notre Dame, IN, United States, ²University of
Washington, Seattle, WA, United States

2 p.m.

695

**TLR9 POLYMORPHISMS ARE ASSOCIATED WITH ALTERED
IFN- LEVELS IN CHILDREN WITH CEREBRAL MALARIA****Nadia A. Sam-Agudu**¹, Jennifer Greene², Robert O. Opoka³,
James W. Kazura², Michael J. Boivin⁴, Lisa A. Schimmenti¹, Peter A.
Zimmerman², Chandy C. John¹¹University of Minnesota Children's Hospital-Fairview, Minneapolis, MN,
United States, ²Case Western Reserve University, Cleveland, OH, United
States, ³Makerere University, Kampala, Uganda, ⁴Michigan State University,
East Lansing, MI, United States

2:15 p.m.

323

**COMPLEMENT UTILIZATION IN CHILDREN WITH SEVERE
MALARIA ANEMIA****Nancy K. Nyakoe**¹, John N. Waitumbi¹, Ron P. Taylor²¹Walter Reed Project/Kenya Medical Research Institute, Kisumu, Kenya,
²Department of Biochemistry and Molecular Genetics, University of Virginia
School of Medicine, Charlottesville, VA, United States

2:30 p.m.

556

**TEMPORAL STABILITY OF BLOOD STAGE MALARIA IMMUNE
SURROGATES OF PROTECTION IN A MALARIA HOLOENDEMIC
AREA****Arlene E. Dent**¹, Kiprotich Chelimo², Peter Sumba², Daniel Tisch¹,
Michele Spring³, Ann Moormann¹, James Kazura¹¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya
Medical Research Institute, Kisumu, Kenya, ³Walter Reed Army Institute of
Research, Washington, DC, United States

2:45 p.m.

364

**PLASMODIUM SPOROZOITES LACKING AN ASPARAGINE RICH
PROTEIN FAIL TO ESTABLISH LIVER STAGE INFECTION AND
ELICIT STERILE IMMUNITY AGAINST MALARIA****Ahmed S. Aly**, Stefan H. Kappe*Seattle Biomedical Research Institute, Seattle, WA, United States*

3 p.m.

365

**TO LIVE OR DIE: INVESTIGATING THE ROLE OF *PLASMODIUM
FALCIPARUM* MITOCHONDRIA IN THE FACE OF ELECTRON
TRANSPORT INHIBITION****Heather J. Painter**, Joanne M. Morrisey, Akhil B. Vaidya*Drexel University College of Medicine, Philadelphia, PA, United States*

3:15 p.m.

352

**PREDICTORS OF ANTICONVULSANT TREATMENT FAILURE
AMONG CHILDREN WITH SEVERE MALARIA****Arthur Mpimbaza**¹, Sarah Staedke², Grace Ndeezi¹, Justus
Byarugaba¹, Philip J. Rosenthal³¹Makerere University, Kampala, Uganda, ²London School of Hygiene and
Tropical Medicine, London, United Kingdom, ³University of California San
Francisco, San Francisco, CA, United States**ACAV SIE Subcommittee Meeting***Room 309*

Sunday, November 4, 2007 11 a.m. - Noon

ACAV SIRACA Subcommittee Meeting*Room 309*

Sunday, November 4, 2007 Noon - 2 p.m.

ACAV SALS Subcommittee Meeting*Room 309*

Sunday, November 4, 2007 2 p.m. - 3:30 p.m.

Young Investigator Committee Meeting*Independence I*

Sunday, November 4, 2007 3:30 p.m. - 5 p.m.

ACME Council Meeting

Room 301

Sunday, November 4, 2007 3:30 p.m. - 5 p.m.

ACAV Council Meeting

Room 309

Sunday, November 4, 2007 3:30 p.m. - 5:30 p.m.

ACMCIP Council Meeting

Room 362

Sunday, November 4, 2007 3:30 p.m. - 5 p.m.

Clinical Group Council Meeting

Room 405

Sunday, November 4, 2007 3:30 p.m. - 5:30 p.m.

Student Reception

Porthole Room across Bridge on Third Floor

Sunday, November 4, 2007 4 p.m. - 5 p.m.

The ASTMH council invites students, postdoctoral fellows and residents to the student reception. This reception is an opportunity to meet fellow trainees and interact with society leaders.

Plenary Session I and Society Awards Ceremony

Salon GH

Sunday, November 4, 2007 5:30 p.m. - 7:30 p.m.

CHAIR

Carlos C. (Kent) Campbell
PATH Malaria Control and Evaluation Partnership in Africa (MACEPA), Seattle, WA, United States

Edward T. Ryan
Massachusetts General Hospital, Boston, MA, United States

5:30 p.m.

PERSPECTIVES IN GLOBAL HEALTH

Tadataka Yamada, MD
President, Global Health Program
Bill & Melinda Gates Foundation, Seattle, WA, United States

6:30 p.m.

AWARDS CEREMONY

Hosted by Carlos C. (Kent) Campbell
PATH Malaria Control and Evaluation Partnership in Africa (MACEPA), Seattle, WA, United States

ASTMH TRAVEL AWARDS

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

AMERICAN COMMITTEE OF MEDICAL ENTOMOLOGY (ACME) TRAVEL AWARDS

Edward D. Walker
Michigan State University, East Lansing, MI, United States

YOUNG INVESTIGATOR AWARDS

Peter Zimmerman
Case Western Reserve University, Cleveland, OH, United States

ROBERT E. SHOPE INTERNATIONAL FELLOWSHIP IN INFECTIOUS DISEASES

Charles Calisher
Colorado State University, Fort Collins, CO, United States

GORGAS MEMORIAL INSTITUTE RESEARCH AWARD

Rebeca Rico-Hesse
Southwest Foundation for Biomedical Research, San Antonio, TX, United States

BURROUGHS WELLCOME FUND - ASTMH POSTDOCTORAL FELLOWSHIP IN TROPICAL INFECTIOUS DISEASES

Terrie Taylor
Michigan State University, East Lansing, MI, United States

PFIZER CENTENNIAL TRAVEL AWARD IN BASIC SCIENCE TROPICAL DISEASE RESEARCH

Joseph M. Vinetz
University of California at San Diego, La Jolla, CA, United States

BENJAMIN H. KEAN TRAVELING FELLOWSHIP IN TROPICAL MEDICINE

Christopher V. Plowe
University of Maryland School of Medicine, Baltimore, MD, United States

COMMUNICATIONS AWARD

Claire Panosian
UCLA School of Medicine, Los Angeles, CA, United States

HONORARY MEMBERS

Robert Sinden
Imperial College Science Technology and Medicine, London, United Kingdom

Presented by Daniel J. Carucci
Foundation for the National Institutes of Health, Bethesda, MD, United States

Robert Swanepoel
National Institute for Communicable Diseases, Johannesburg, South Africa

Presented by Thomas Ksiazek
Centers for Disease Control and Prevention, Atlanta, GA, United States

SCHERER/HARDY AWARD

Introduction by Douglas M. Watts
University of Texas Medical Branch, Galveston, TX, United States

HOOGSTRAAL MEDAL

Bruce Eldridge
University of California at Davis, Davis, CA, United States

Presented by Stephen Higgs
University of Texas Medical Branch, Galveston, TX, United States

Detailed Program

BAILEY K. ASHFORD MEDAL

Michael Cappello
Yale University School of Medicine, New Haven, CT, United States

Presented by Peter J. Hotez
The George Washington University, Washington, DC, United States

BEN KEAN MEDAL

Robert Gilman
Johns Hopkins University School of Public Health, Baltimore, MD, United States

Presented by Frank Bia
Yale University School of Medicine, New Haven, CT, United States

DONALD MACKAY MEDAL

David Molyneux
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Presented by Peter J. Hotez
The George Washington University, Washington, DC, United States

Opening Reception

Franklin Hall

Sunday, November 4, 2007 7:30 p.m. - 9:30 p.m.

Monday, November 5

Registration

Grand Ballroom Foyer

Monday, November 5, 2007 7 a.m. - 5 p.m.

Cyber Cafe

Franklin Hall Foyer

Monday, November 5, 2007 7 a.m. - 5 p.m.

Speaker Ready Room

Rooms 413-415

Monday, November 5, 2007 7 a.m. - 6 p.m.

Press Room

Rooms 403-404

Monday, November 5, 2007 7:30 a.m. - 6:30 p.m.

ASTMH Public Policy and Advocacy Leadership Committee Meeting

Room 305

Monday, November 5, 2007 7 a.m. - 8 a.m.

Diploma Course Directors Meeting

Room 410

Monday, November 5, 2007 7 a.m. - 8 a.m.

Meet the Professors 2

Meet the Professors A: Fireside Chat: Personal Experiences, Words of Wisdom and Institutional Perspectives

Salon G

Monday, November 5, 2007 7 a.m. - 8 a.m.

Designed for students and trainees as the next generation of tropical medicine leaders, a panel of professors will share information on their institutions, programs, career development and research opportunities. A light breakfast will be served.

CHAIR

Anne McCarthy
Ottawa Hospital, Ottawa, ON, Canada

PANELISTS

Alan Magill
Walter Reed Army Institute of Research, Silver Spring, MD, United States

Edward T. Ryan
Massachusetts General Hospital, Boston, MA, United States

Symposium 2A

Artemether/Lumefantrine Dispersible - ACT Addressing Children Therapeutic Needs

Supported with funding from Novartis Pharma AG. Organizational Support provided by Medicines for Malaria Venture

Salon AB

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

Malaria is primarily a disease of infants and young children. However, there are currently no safe and effective antimalarials specifically formulated for this vulnerable population that are registered to a stringent international standard and recommended by WHO. To address this critical gap, an innovative formulation of the effective fixed-dose formulation of the ACT, artemether/lumefantrine, has been developed. This proved a surprisingly challenging task. Not only did the new formulation have to be as safe and effective as the current tablet formulation, it also had to meet stringent requirements deemed essential for widespread use including palatability, stability and critically, affordability. This symposium will focus on the clinical aspects of the dispersible tablet development program.

CHAIR

Umberto D'Alessandro
Prince Leopold Institute of Tropical Medicine, Antwerp, Belgium

8 a.m.

ARTEMETHER/LUMEFANTRINE CRUSHED TABLET - A CLINICAL OVERVIEW

Michael M. Makanga
European and Developing Countries Clinical Trials, Cape Town, South Africa

8:15 a.m.

PUBLIC-PRIVATE PARTNERSHIP DEVELOPS THE NEW STANDARD OF CARE FOR PEDIATRIC MALARIA PATIENTS: RATIONALE FOR DEVELOPING A DISPERSIBLE TABLET

Christopher Hentschel
Medicines for Malaria Venture, Geneva, Switzerland

8:25 a.m.

EARLY DEVELOPMENT STEPS OF THE ARTEMETHER/LUMEFANTRINE DISPERSIBLE TABLET: PHARMACOKINETICS AND PALATABILITY

Salim Abdulla
Ifakara Health Research and Development Centre, Dar-es-Salaam, United Republic of Tanzania

8:40 a.m.

EFFICACY OF ARTEMETHER/LUMEFANTRINE DISPERSIBLE TABLE - PHASE III RESULTS

Bernhards R. Ogutu
Centre for Clinical Research, Kenya Medical Research Institute, Kisumu, Kenya

9 a.m.

SAFETY AND TOLERABILITY OF ARTEMETHER/LUMEFANTRINE DISPERSIBLE TABLET - PHASE III RESULTS

Philip G. Sasi
KEMRI/Wellcome Trust Research Programme, Kilifi, Kenya

9:25 a.m.

QUESTION AND ANSWER PERIOD

Symposium 3

Information System and Decision Support System Approaches to Facilitate Control of Vector-Borne Diseases

Salon CD

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

The symposium will focus on the use of computer-based information and decision support systems as new tools to facilitate: 1) operational vector and disease surveillance and control activities; and 2) transfer of evidence-based information from the scientific community to the parties de facto responsible for vector and disease control. The symposium aims to 1) generate a discussion of the problems and possibilities related to information and decision support system approaches to facilitate control of vector-borne diseases; and 2) synergize the formation of an international working group charged with harmonization of existing decision support systems for vector-borne diseases and exploration of the potential for combination systems capable of supporting surveillance and control of multiple vector-borne diseases.

CHAIR

Lars Eisen
Colorado State University, Fort Collins, CO, United States

8 a.m.

THE TICK ENCOUNTER RESOURCE CENTER

Thomas N. Mather
University of Rhode Island, Kingston, RI, United States

8:25 a.m.

DECISION SUPPORT SYSTEMS FOR CONTROL OF CHAGAS DISEASE

Uriel Kitron
University of Illinois at Urbana-Champaign, Urbana, IL, United States

8:45 a.m.

ROSS RIVER VIRUS EARLY DETECTION AND SURVEILLANCE SYSTEM

Peter Ryan
Queensland Institute of Medical Research, Brisbane, Australia

9:05 a.m.

MALARIA DECISION SUPPORT SYSTEM PROJECT

Michael Coleman
Medical Research Council, Durban, South Africa

9:25 a.m.

DENGUE DECISION SUPPORT SYSTEM PROJECT

Lars Eisen
Colorado State University, Fort Collins, CO, United States

Symposium 5

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Genomic Approaches to Host and Parasite Interactions

Supported with funding from The Burroughs Wellcome Fund

Salon F

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

This symposium is designed to review and update progress on the use of genomic approaches to investigate parasite and host interactions. The speakers will discuss topics ranging from population genetic approaches to natural selection, expression arrays and RNAi methodologies to look at host-parasite interactions. The symposium will highlight examples of genomic approaches that can be applied to the question of host-parasite interactions in a variety of parasitic diseases.

CHAIR

Sarah K. Volkman
Harvard School of Public Health, Boston, MA, United States

8 a.m.

NATURAL SELECTION IN HUMANS AND MALARIA

Pardis C. Sabeti
The Broad Institute of MIT and Harvard, Cambridge, MA, United States

8:35 a.m.

TOXOPLASMA INFECTION AND HOST GENE EXPRESSION

Jon Boyle
Stanford University, Stanford, CA, United States

9:10 a.m.**HELMINTH INFECTION AND HOST IMMUNITY**

Murray Selkirk

*Imperial College London, London, United Kingdom***Scientific Session 6****Flavivirus I - Dengue I**

Salon G

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

CHAIR

Daniel Libraty

University of Massachusetts Medical School, Worcester, MA, United States

Sujan Shresta

*LIAI, La Jolla, CA, United States***8 a.m.****1****GLYCOSYLATION OF THE DENGUE 2 VIRUS E PROTEIN AT N67 IS CRITICAL FOR VIRUS GROWTH *IN VITRO* BUT NOT FOR GROWTH IN INTRATHORACICALLY-INOCULATED *Aedes aegypti* MOSQUITOES**John T. Roehrig¹, **Juliet E. Bryant**², Amanda E. Calvert¹, Kyeen Mesesan¹, Mary B. Crabtree¹, Katharine E. Volpe¹, Shawn Silengo¹, Richard M. Kinney¹, Claire Y. Huang¹, Barry R. Miller¹¹Arboviral Diseases Branch, Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services, Fort Collins, CO, United States, ²Institute Pasteur, Vientiane, Lao People's Democratic Republic**8:15 a.m.****2****HIGHER FREQUENCY OF DENGUE VIRAL RNA DETECTED IN PLATELETS THAN IN PLASMA IN THE LATE STAGE OF DENGUE VIRUS INFECTION**Sansanee Noisakran¹, **Robert Gibbons**², Pucharee Songprakhon¹, Aroonroong Jairungsri¹, Chuanpis Ajariyakhajorn², Ananda Nisalak², Richard Jarman², Mammen Mammen², Kulkanya Chokephaibulkit¹, Prida Malasit¹, Guey Perng²¹Medical Molecular Biology Unit, Office for Research and Development, Siriraj Hospital, Bangkok, Thailand, ²Armed Forces Research Institution for Medical Sciences, Bangkok, Thailand**8:30 a.m.****3****PRIMARY HUMAN SPLENIC MACROPHAGES ARE THE PRINCIPAL TARGET CELLS FOR DENGUE VIRUS INFECTION *EX VIVO*****Zhihua Kou**, Shanley Blackley, Huiyuan Chen, Matthew Quinn, Robert C. Rose, Jacob J. Schlesinger, Myra Coppage, Xia Jin*University of Rochester, Rochester, NY, United States***8:45 a.m.****4****WHOLE BLOOD TRANSCRIPTIONAL PROFILES ASSOCIATION WITH DENGUE SHOCK SYNDROME****Long T. Hoang***The Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam***9 a.m.****5****DIFFERENTIAL AND TEMPORAL MODULATION OF ENDOTHELIAL BARRIER FUNCTION BY HEMORRHAGIC FEVER VIRUSES****Ping Liu**, Daniel H. Libraty*University of Massachusetts Medical School, Worcester, MA, United States**(ACMCIP Abstract)***9:15 a.m.****6****DEVELOPING A MOUSE MODEL OF DENGUE IMMUNOPATHOGENESIS****Scott Balsitis**, Jennifer L. Kyle, Diana Flores, P. Robert Beatty, Eva Harris*Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States***9:30 a.m.****7****DENGUE VIRAL DETERMINANTS OF SEVERE DISEASE IN MICE****Tyler R. Prestwood**, Daniil M. Prigozhin, Kristin L. Sharar, Lauren E. Yauch, Sujan Shresta*La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States***Symposium 7****Monitoring and Evaluation Issues with Regard to Integrated Control of Neglected Tropical Diseases (NTDs)**

Salon H

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

During this symposium we will present selected results and achievements from current vertical programs of NTDs (schistosomiasis, lymphatic filariasis, intestinal helminths and onchocerciasis) already in place from several African countries. We will update on progress as regards to the planning for monitoring and evaluation of expected future integrated programs against these infections. We will discuss issues on the design of these studies, what to measure, costs, sample sizes and frequency of follow-up. Evaluation plans will have to be designed to address the specific questions raised by the donors, local partners and implementers, and provide robust epidemiological evidence of any increased effect and cost effectiveness attributable to integration of NTD control.

CHAIR

Alan Fenwick

Imperial College, London, United Kingdom

Peter J. Hotez
The George Washington University, Washington, DC, United States

8 a.m.

MONITORING AND EVALUATION OF NTDS

Joanne P. Webster
Imperial College Faculty of Medicine, London, United Kingdom

8:35 a.m.

EAST AFRICAN EXPERIENCES – UGANDA

Narcis Kabateraine
Ministry of Health, Kampala, Uganda

9:10 a.m.

WEST AFRICAN EXPERIENCES – NIGER AND BURKINA FASO

Amadou Garba
Ministry of Health, Niamey, Niger

Symposium 8

HIV in the Tropics

Salon II

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

This symposium will review the most recent data and patterns of the burden of HIV in the tropics. A general overview of the epidemiology of HIV will introduce this topic, co-infection with pertinent tropical diseases and emerging opportunistic infections will be examined, the role and development of anti retroviral therapy will be discussed with a focus on Sub-Saharan Africa and the symposium will end with a review of the HIV-positive traveler and pre/post-travel considerations.

CHAIR

John D. Cahill
St. Luke's/Roosevelt Hospital, New York, NY, United States

Maria Mileno
Brown University, Providence, RI, United States

8 a.m.

AN OVERVIEW OF HIV IN THE TROPICS

Jennifer Stratton
St. Luke's Roosevelt Hospital Center, New York, NY, United States

8:20 a.m.

THE BURDEN OF TROPICAL DISEASES ON HIV

John Cahill
St. Luke's/Roosevelt Hospital, New York, NY, United States

8:50 a.m.

ANTIRETROVIRAL USE IN THE TROPICS

Nayomi Sajan
St. Luke's Roosevelt Hospital Center, New York, United States

9:15 a.m.

THE HIV-POSITIVE TRAVELER

Maria Mileno
Brown University, Providence, RI, United States

Symposium 9

Measuring Disability Due to Chronic Infection: The Hidden Costs of Cystic Echinococcosis

Salon KL

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

This symposium is designed to review and update current knowledge of the human health and agriculture-related costs associated with cystic echinococcosis (CE). Methods to ascertain both financial and non-financial burden estimates will be discussed as will the need for improved reporting.

CHAIR

Enrico Brunetti
University of Pavia, Pavia, Italy

CO-CHAIR

Paul R. Torgerson
University of Zürich, Zürich, Switzerland

8 a.m.

MEASURING THE BURDEN OF PARASITIC ZOOSES: PROS AND CONS OF THE DALYS APPROACH

Hélène Carabin
University of Oklahoma, Oklahoma City, OK, United States

8:25 a.m.

ECHINOCOCCOSIS: FROM BURDEN ESTIMATES TO COST-EFFECTIVENESS

Paul R. Torgerson
University of Zürich, Zürich, Switzerland

8:50 a.m.

TOWARDS ESTIMATING THE NON-MONETARY BURDEN OF CYSTIC ECHINOCOCCOSIS

Christine M. Budke
Texas A&M University, College Station, TX, United States

9:15 a.m.

ON THE HUNT FOR CE IN A MOROCCAN VILLAGE: THE CHALLENGES OF IDENTIFYING SURGICAL CASES IN ENDEMIC REGIONS

Malika Kachani of Veterinary Medicine, Pomona, CA, United States

Symposium 10

Tropical Medicine and the Media

Liberty AB

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

Newspaper and magazine articles, as well as broadcast and Web-based journalism, can have a powerful impact on the public's understanding of poverty, health and neglected diseases. Each year, ASTMH features a panel exploring current trends in tropical medicine journalism and advocacy. This year's panelists will discuss, among other topics, the awakening interest in tropical diseases, global health and social justice by the American public. The session will conclude with audience questions and answers.

Detailed Program

CHAIR

Claire Panosian
UCLA School of Medicine, Los Angeles, CA, United States

8 a.m.

INTRODUCTION

Claire Panosian
UCLA School of Medicine, Los Angeles, CA, United States

8:10 a.m.

FROM AMERICAN POVERTY TO MALARIA: THE JOURNEY OF A WASHINGTON POST REPORTER

Michael Leahy
The Washington Post, Washington, DC, United States

8:30 a.m.

GLOBAL HEALTH ADVOCACY: LESSONS FROM THE GATES FOUNDATION AND BONO "ONE" CAMPAIGN

Joe Cerrell
Bill and Melinda Gates Foundation, Seattle, WA, United States

8:50 a.m.

COVERING TROPICAL MEDICINE AT NPR

Joanne Silberner
National Public Radio, Washington, DC, United States

9:10 a.m.

WORKING WITH THE MEDIA

Frank Richards
The Carter Center, Atlanta, GA, United States

Scientific Session 11

Malaria - Vaccines I

Liberty C

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

CHAIR

Bertrand Lell
Albert Schweitzer Hospital, Lambarene, Gabon

Shannon Takala
University of Maryland School of Medicine, Baltimore, MD, United States

8 a.m.

8

A FOUR-YEAR FOLLOW-UP OF THE SAFETY, IMMUNOGENICITY AND EFFICACY OF THE CANDIDATE MALARIA VACCINE RTS,S/AS02A IN CHILDREN VACCINATED AT AGED 1 TO 4 YEARS IN A MALARIA-ENDEMIC REGION OF MOZAMBIQUE

John J. Aponte¹, **Jahit Sacarlal**², Pedro Aide², Eusebio Macete², Montse Renom¹, Quique Bassat¹, Inacio Mandomando², Maria N. Manaca², Sarah Lafuente¹, Amanda Leach³, Ripley Ballou³, Marc Lievens³, Joelle Thonnard³, Marie-Claude Dubois³, Marie-Ange Demotie³, Joe Cohen³, Filip Dubovsky⁴, Jessica Millman⁴, Marla Sillman⁴, Pedro L. Alonso¹

¹Barcelona Centre For International Health Research (CRESIB), Hospital Clinic/IDIBAPS, University of Barcelona, Barcelona, Spain, ²Manhiça Health Research Centre (CISM), Manhiça, Mozambique, ³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States

8:15 a.m.

9

ASSESSMENT OF CELLULAR IMMUNE RESPONSES IN INFANTS PARTICIPATING IN A RTS,S/AS02D PHASE I/II B TRIAL IN MOZAMBIQUE

Arnoldo Barbosa¹, Denise Naniche¹, Maria N. Manaca², John Aponte¹, Inacio Mandomando², Pedro Aide², Montse Renom¹, Jahit Sacarlal², Ripley Ballou³, Philippe Moris³, Joe Cohen³, Filip Dubovsky⁴, Jessica Millman⁴, Pedro L. Alonso¹

¹Barcelona Centre For International Health Research (CRESIB), Hospital Clinic/IDIBAPS, University of Barcelona, Barcelona, Spain, ²Manhiça Health Research Centre (CISM), Manhiça, Mozambique, ³Glaxo-SmithKline Biologicals, Rixensart, Belgium, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States

(ACMCIP Abstract)

8:30 a.m.

10

A RANDOMIZED, OBSERVER-BLIND TRIAL TO COMPARE SAFETY AND IMMUNOGENICITY OF TWO ADJUVANTED RTS,S ANTI-MALARIA VACCINE CANDIDATES IN GABONESE CHILDREN

Bertand Lell¹, Selidji Agnandji¹, Isabelle von Glasenapp¹, Sunny Oyakhiromen¹, Sonja Haertle¹, Peter G. Kremsner¹, Isabelle Ramboer², Marc Lievens², Ripley Ballou², Johan Vekemans², Marie-Claude Dubois², Marie-Ange Demotie², Joe Cohen², Tonya Villafana³, Terrell Carter³, Carolyn Petersen³

¹Medical Research Unit, Albert Schweitzer Hospital, Lambaréné, Gabon, ²GlaxoSmithKline Biologicals, Rixensart, Belgium, ³PATH Malaria Vaccine Initiative, Bethesda, MD, United States

8:45 a.m.

11

SAFETY AND TOLERABILITY OF A MULTI-STAGE, MULTI-ANTI-GEN ADENOVIRUS-VECTORED *P. FALCIPARUM* MALARIA VACCINE, IN HEALTHY, MALARIA-NAÏVE ADULTS

David P. Regis¹, Martha Sedegah¹, Jose Mendoza-Silveiras¹, Victoria Steinbeiss¹, Sharina Reyes¹, Judith E. Epstein¹, Ilin Chuang, Francis Williams¹, Gail L. Levine², Joseph T. Bruder³, C. Richter King³, Noelle B. Patterson¹, Keith Limbach¹, Lorraine Soisson⁴, Carter Diggs⁴, Denise L. Doolan¹, Thomas Richie¹

¹Naval Medical Research Center, Silver Spring, MD, United States,

²Foundation for the National Institutes of Health, Bethesda, MD, United States, ³GenVec, Inc., Gaithersburg, MD, United States, ⁴United States Agency for International Development, Malaria Vaccine Development Program, Washington, DC, United States

9 a.m.

12

MEASUREMENT OF ANTIBODY FINE SPECIFICITIES INDUCED BY MALARIA VACCINE FMP1/AS02A FROM A PEDIATRIC PHASE 2B TRIAL IN WESTERN KENYA

Evelina Angov¹, Elke S. Bergmann-Leitner¹, Elizabeth H. Duncan¹, Afiya Brent-Kirk¹, Michael McCasland¹, Ryan Mease¹, Lorraine S. Soisson², Marie-Ange Demoitié³, Bernhards Ogutu⁴, D. Gray Heppner¹, Jeffrey A. Lyon¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²United States Agency for International Development, Washington, DC, United States, ³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴Kenya Medical Research Institute, Kisumu, Kenya

9:15 a.m.

13

PURIFIED IGGS FROM UNVACCINATED MALIANS INTERFERE WITH THE BIOLOGICAL ACTIVITY OF APICAL MEMBRANE ANTIGEN 1-SPECIFIC IGGS AS JUDGED BY THE *IN VITRO* GROWTH INHIBITION ASSAY

Kazutoyo Miura¹, Hong Zhou¹, Gregory Mullen¹, Samuel Moretz¹, Ababacar Diouf¹, David Diemert¹, Alassane Dicko², Louis Miller¹, Ogobara Doumbo², Carole Long¹

¹Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States,

²Malaria Research and Training Center, Departments of Hematology and Parasitology, University of Bamako, Bamako, Mali

9:30 a.m.

14

DYNAMICS OF POLYMORPHISM IN *PLASMODIUM FALCIPARUM* APICAL MEMBRANE ANTIGEN-1 OVER THREE YEARS AT A VACCINE-TESTING SITE IN MALI

Shannon Takala¹, Amed Ouattara¹, Drissa Coulibaly², Mahamadou A. Thera², Alassane Dicko², Ando B. Guindo², Abdoulaye K. Kone², Karim Traore², Abdoulaye Djimde², Kirsten E. Lyke¹, Dapa A. Diallo², Ogobara K. Doumbo², Christopher V. Plowe¹

¹University of Maryland School of Medicine, Baltimore, MD, United States,

²Malaria Research and Training Center, University of Bamako, Bamako, Mali

Scientific Session 12**Bacteriology I - Diarrhea, Enteric Infections and Other**

Franklin 2

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

CHAIR

Eric Mintz

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

Paola A. Torres

Naval Medical Research Center Detachment-Peru, Lima, Peru

8 a.m.

15

RISK FACTORS FOR DIARRHEAL DISEASE MORTALITY AMONG HOSPITALIZED CHILDREN IN RURAL WESTERN KENYA, 2005-2007

Ciara E. O'Reilly¹, Jacqueline Tate¹, Eileen Yee¹, Elizabeth Blanton¹, Benjamin Ochieng², Peter Jaron², Amek Nyaguara², Michele Parsons¹, Cheryl Bopp¹, John Vulule³, Robert Breiman⁴, Daniel Feikin², Kayla Laserson², Marc-Alain Widdowson¹, Eric Mintz¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²KEMRI/Centers for Disease Control and Prevention, Kisumu, Kenya,

³KEMRI, Kisumu, Kenya, ⁴KEMRI/Centers for Disease Control and Prevention, Nairobi, Kenya

8:15 a.m.

16

FACTORS ASSOCIATED WITH KWASHIORKOR IN BOTSWANA DURING AN OUTBREAK OF DIARRHEA AND MALNUTRITION AMONG YOUNG CHILDREN

Lydia Lu¹, Tracy Creek¹, Ondrej Mach¹, Laurel Zaks¹, Japhter Masunge², Margaret Davis³

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Botswana Ministry of Health, Gaborone, Botswana, ³CDC - BOTUSA, Gaborone, Botswana

8:30 a.m.

17

FLUID MANAGEMENT AMONG CHILDREN PRESENTING TO AN EMERGENCY DEPARTMENT DURING A DIARRHEA OUTBREAK IN BOTSWANA

Anna Bowen¹, Wences Arvelo¹, Andrea Kim¹, Tracy Creek¹, Japhter Masunge², Margaret Davis¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Nyangabgwe Hospital, Fancistown, Botswana

8:45 a.m.

18

SUSCEPTIBILITY TO *VIBRIO CHOLERA*E INFECTION IN A COHORT OF HOUSEHOLD CONTACTS OF PATIENTS WITH CHOLERA IN BANGLADESH

Jason B. Harris¹, Regina LaRocque¹, Fahima Chowdhury², Ashraf Kahn², Tanya Logvinenko¹, Abu S. Faruque², Edward T. Ryan¹, Firdausi Qadri², Stephen Calderwood¹

¹Massachusetts General Hospital, Boston, MA, United States, ²International Center for Diarrhoeal Disease Research, B, Dhaka, Bangladesh

9 a.m.

19

PROSPECTIVE STUDY OF DIARRHEA DUE TO PARASITES IN ADULT POPULATION AT A NAVAL BASE IN ANCÓN, LIMA, PERÚ

Paola A. Torres-Slimming¹, Roger V. Araujo Castillo¹, Moises Huaman¹, Carmen C. Mundaca¹, Jose Quispe², Andres G. Lescano¹, Manuel Moran², Miguel Fernandez², David L. Blazes¹

¹Naval Medical Research Center Detachment, Lima, Peru, ²Centro Medico Naval, Lima, Peru

9:15 a.m.

20

PREDICTORS OF NON-TYPHOIDAL SALMONELLA BACTEREMIA IN FEBRILE CHILDREN PRESENTING AT HOSPITAL IN A PLASMODIUM FALCIPARUM HOLOENDEMIC AREA OF WESTERN KENYA

Tom Were¹, Gregory Davenport², Oscar Odunga¹, Collins Ouma¹, Richard Otieno¹, Yamo Ouma¹, John Vulule³, Alloys Orago⁴, Michael Otieno⁴, Gordon Awandare², Stephen Obaro², John Michael Ong'echa¹, Douglas Perkins²

¹University of Pittsburgh/KEMRI, Kisumu, Kenya, ²University of Pittsburgh, Pittsburgh, PA, United States, ³KEMRI, Kisumu, Kenya, ⁴Kenyatta University, Nairobi, Kenya

(ACMCIP Abstract)

9:30 a.m.

21

IMPROVING MANAGEMENT OF SEVERE FEBRILE ILLNESS IN CHILDREN: INITIAL ASSESSMENT AND DESIGN OF AN INTERVENTION IN RURAL TANZANIA

Thomas Lyimo¹, Nicholas Walter², Jacek Skarbinski², Emmy Metta¹, Peter McElroy³, Brenden Flannery², Elizeus Kahigwa¹, S. Patrick Kachur²

¹Centers for Disease Control and Prevention/Ifakara Health Research and Development Centre Malaria Programme in Tanzania, Dar-es-Salaam, United Republic of Tanzania, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Centers for Disease Control and Prevention, Dar-es-Salaam, United Republic of Tanzania

Symposium 13**Ethics of Research for Health in Developing Countries**

Salon E

Monday, November 5, 2007 8 a.m. - 9:45 a.m.

Although the Special Programme for Tropical Diseases Research from the World Health Organization (TDR/WHO) was created in 1975, it is quite clear that direct benefits for the affected population have not been as much as the products of health research. In one hand this led to change the terminology for research for health used by TDR/WHO the present year, 2007, but the main problem remains to be solved. On the other hand The Global Forum for Health Research (GFH) in its "10/90 Report" pointed out the injustice of spending 90% of all medical research funding on diseases that cause 10% of the global burden of disease, which means that less than 10% of financial resources are invested to solve neglected diseases affecting the poor people living in developing countries. In this symposium we review some of the most relevant ethical dilemmas faced by the stakeholders participating in research for health in developing countries.

CHAIR

Fernando J. Andrade-Narváez
Universidad Autónoma de Yucatan, Merida, Mexico

Ruth Macklin
Albert Einstein College of Medicine of Yeshiva University, Bronx, United States

8 a.m.

ETHICS OF RESEARCH FOR HEALTH IN DEVELOPING COUNTRIES: INTRODUCTION

Fernando Andrade-Narvaez
Universidad Autónoma de Yucatan, Merida, Mexico

8:25 a.m.

WHAT IS OWED TO RESEARCH SUBJECTS IN DEVELOPING COUNTRIES DURING AND AFTER CLINICAL TRIALS IN WHICH THEY ARE PARTICIPANTS?

Ruth Macklin
Albert Einstein College of Medicine of Yeshiva University, Bronx, United States

8:50 a.m.

CANCER TRIALS IN DEVELOPING COUNTRIES: NEW TARGET DRUGS AND ITS BIOETHICAL IMPLICATIONS

Emma L. Verástegui
Instituto Nacional de Cancerología, México, DF, Mexico

9:15 a.m.

ETHICS OF RESEARCH FOR HEALTH IN LEISHMANIASIS

Fernando J. Andrade-Narváez
Universidad Autónoma de Yucatán, Mérida, Mexico

Exhibit Hall Open

Franklin Hall B

Monday, November 5, 2007 9:30 a.m. - 10:30 a.m.

Coffee Break

Franklin Hall B

Monday, November 5, 2007 9:45 a.m. - 10:15 a.m.

Poster Session A Set-Up

Franklin Hall B

Monday, November 5, 2007 9:45 a.m. - 10:15 a.m.

Poster Session A Viewing

Franklin Hall B

Monday, November 5, 2007 10:15 a.m. - Noon

Symposium 14**Malaria Genetic Diversity**

Salon AB

Monday, November 5, 2007 10:15 a.m. - Noon

This symposium will review and update the progress of the malaria genetic diversity both from the perspective of the parasite and the human host. Lessons from the human genome Haplotype Mapping (HapMap) Project will be discussed as a model for how population genetic approaches can be used to associate genetic mutations with disease. A review and discussion of the extent of genetic diversity in the human malaria *P. falciparum* will be presented, as well how this information can be utilized to understand the biology and pathogenesis of these organisms. Finally, applications of these findings on investigations of human infection with *P. falciparum* will be discussed. It is the goal of this symposium to explore how population genetic approaches can reveal mechanisms of malaria disease and pathogenesis.

CHAIR

Dyann Wirth

Harvard School of Public Health, Boston, MA, United States

10:15 a.m.**INTRODUCTION**

Dyann Wirth

Harvard School of Public Health, Boston, MA, United States

10:25 a.m.**SELECTION IN THE HUMAN GENOME AND ASSOCIATION STUDIES IN HUMANS**

Dominic Kwiatkowski

Wellcome Trust Center for Human Genetics, Oxford, United Kingdom

10:55 a.m.**GENETIC DIVERSITY IN *PLASMODIUM FALCIPARUM***

Matthew Berriman

Sanger Institute, Cambridge, United Kingdom

11:05 a.m.**GENETIC DIVERSITY IN *PLASMODIUM FALCIPARUM***

Xinzhou Su

National Institutes of Health, Bethesda, MD, United States

11:15 a.m.**GENETIC DIVERSITY IN *PLASMODIUM FALCIPARUM***

Sarah Volkman

Harvard School of Public Health, Boston, MA, United States

11:25 a.m.**APPLICATION OF GENETIC DIVERSITY TO HUMAN INFECTION WITH *PLASMODIUM FALCIPARUM***

Christopher V. Plowe

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

Symposium 15**Vectors in the Pathogenesis of Emerging Bacterial Vector-Borne Zoonoses**

Salon CD

Monday, November 5, 2007 10:15 a.m. - Noon

This symposium is designed to introduce and review novel pathogenetic concepts of emerging vector-transmitted bacterial anthroponozoonoses. The main emphasis of the program is to advance the understanding of fundamental disease mechanisms and how these processes are substantially influenced by events at the vector-pathogen and vector-host interface. Four important emerging pathogens and four different acarid vector systems will serve as platforms for conveying general principles and specific disease-related information: *Ehrlichia* spp., including *Ehrlichia chaffeensis* (*Amblyomma* tick-transmitted), *Anaplasma phagocytophilum* (*Ixodes* tick-transmitted), *Francisella tularensis* (*Dermacentor* spp. transmitted) and *Orientia tsutsugamushi* (*Leptotrombidium* spp. chigger transmitted).

CHAIR

J. Stephen Dumler

The Johns Hopkins University School of Medicine, Baltimore, MD, United States

David H. Walker

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

10:15 a.m.***EHRlichia* SPECIES AND TICKS: INFLUENCE OF TICK CELL PROPAGATION ON PATHOGEN MOLECULAR STRUCTURE AND INFECTIVITY**

Roman R. Ganta

Kansas State University, Manhattan, KS, United States

10:40 a.m.**TICK SALIVA AND THE TRANSMISSION OF *BORRELIA* AND *ANAPLASMA***

Erol Fikrig

Yale University School of Medicine, New Haven, CT, United States

11:05 a.m.**TULAREMIA IN DERMACENTOR: GENETIC DIVERSITY AND DISEASE OUTBREAKS**

Sam R. Telford

Tufts Cummings School of Veterinary Medicine, Boston, MA, United States

Detailed Program

11:30 a.m.

REEMERGENCE OF SCRUB TYPHUS - ROLE OF THE CHIGGER IN PATHOGENESIS

David H. Walker
University of Texas Medical Branch at Galveston, Galveston, TX,
United States

Symposium 16

Cell and Molecular Biology of Trypanosomatid Infections: Host Parasite Interactions

Salon E

Monday, November 5, 2007 10:15 a.m. – 12:20 p.m.

This symposium will focus on the molecular mechanisms of intracellular or extracellular survival of *Leishmania* spp and *Trypanosoma* spp. in the mammalian host. Talks will focus on the effect of the intracellular leishmania on the physiology of the macrophage, the roles of glycoconjugates, lipids, and iron acquisition in leishmania virulence, vascular changes during *Trypanosoma cruzi* infection and evasion of serum lytic factors by *Trypanosoma brucei*.

CHAIR

Mary E. Wilson
University of Iowa, Iowa City, IA, United States

10:15 a.m.

ALTERATIONS IN MONOCYTE/MACROPHAGE PHYSIOLOGY DURING LEISHMANIASIS

David M. Mosser
University of Maryland, College Park, MD, United States

10:40 a.m.

IRON TRANSPORT BY INTRACELLULAR LEISHMANIA AMAZONENSIS

Norma Andrews
Yale University, New Haven, CT, United States

11:05 a.m.

THE ROLE(S) OF LEISHMANIA SURFACE GLYCOCONJUGATES AND LIPIDS IN VIRULENCE

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

11:30 a.m.

THE VASCULOPATHY OF CHAGAS' DISEASE

Herbert B. Tanowitz
Albert Einstein College of Medicine, Bronx, NY, United States

11:55 a.m.

TRYPANOSOME LYTIC FACTOR IN HUMAN SERUM

Stephen Hajduk
Marine Biological Laboratory, Woods Hole, MA, United States

Symposium 17

New Insights and Updates on Vivax Malaria

Salon F

Monday, November 5, 2007 10:15 a.m. - Noon

This symposium will review and update progress in understanding the biology of *P. vivax* malaria and its clinical implications. The clinical significance of recent reports of genetically distinct populations of vivax clonal parasites between primary and relapse infections will be reviewed. In addition speakers will discuss the limitations of currently available chemoprophylaxis agents for the complete prevention of vivax malaria, the evidence base for optimal radical cure and preventive anti-relapse therapy (PART). Finally, the performance of current generation RDTs for vivax malaria will be reviewed.

CHAIR

Eli Schwartz
Sheba Medical Center, Tel Hashomer, Israel

Alan Magill
Walter Reed Army Institute of Research, Silver Spring, MD, United States

10:15 a.m.

CRITICAL EVALUATION OF CHEMOPROPHYLAXIS FOR *P. VIVAX*

Eli Schwartz
Sheba Medical Center, Tel Hashomer, Israel

10:40 a.m.

NEW INSIGHT INTO THE BIOLOGY OF *P. VIVAX*

Qin Cheng
Australian Army Malaria Institute, Brisbane, Australia

11:05 a.m.

HOW TO RADICALLY CURE *P. VIVAX* MALARIA

Alan Magill
Walter Reed Army Institute of Research, Silver Spring, MD, United States

11:30 a.m.

DIAGNOSIS OF VIVAX MALARIA WITH A FOCUS ON THE USE OF RAPID DIAGNOSTIC TESTS (RDTs)

Scott R. Miller
Walter Reed Army Institute of Research, Silver Spring, MD, United States

Scientific Session 18

Flavivirus II - Dengue II

Salon G

Monday, November 5, 2007 10:15 a.m. - Noon

CHAIR

Irene Bosch
University of Massachusetts Medical School, Worcester, MA, United States

Cameron Simmons
OUCRU Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

10:15 a.m.

22

DENGUE PATHOGENESIS; HOST AND VIRAL LESSONS FROM VIETNAMESE INFANTS AND CHILDREN

Cameron Simmons, Bich Chau Tran Nguyen, Hung Nguyen Thanh, Thi Thuy Tran, Phuong Dung Nguyen Thi, Ha Quyen Nguyen Than, Jeremy Farrar

Oxford Clinical Research Unit and Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

10:30 a.m.

23

EVIDENCE FOR A CONSERVED T CELL RECEPTOR REPERTOIRE IN MEMORY CD8+ T CELLS SPECIFIC FOR AN IMMUNODOMINANT CTL EPITOPE IN DENGUE 1 NS5

Allison Imrie, Janet Meeks, Alexandra Gurary, Munkhzul Sukhbaatar

University of Hawaii at Manoa, Honolulu, HI, United States

10:45 a.m.

24

MOLECULAR MARKERS IN SECONDARY DENGUE INFECTION: ELEVATED SOLUBLE ST2 PROTEIN (IL-33 RECEPTOR) IN SERA

Irene Bosch¹, Aniuska Becerra-Artiles¹, Rajas Warke¹, Norma de Bosch², Alan Rothman¹

¹*University of Massachusetts Medical School, Worcester, MA, United States*, ²*Banco de Sangre, Caracas, Venezuela*

11 a.m.

25

SIGNIFICANT INCREASE IN DENGUE SEVERITY BETWEEN 2005 AND 2006 IN A HOSPITAL-BASED STUDY IN NICARAGUA

Crisanta Rocha¹, Sheyla Silva¹, Andrea Nuñez², Aubree Gordon³, Douglas Elizondo², Yolanda Tellez², Tangni Gomez², Niall Lennon⁴, Matthew Henn⁴, Angel Balmaseda², Eva Harris³

¹*Hospital Infantil Manuel de Jesus Rivera, Managua, Nicaragua*, ²*Departamento de Virologia, Centro Nacional de Diagnostico y Referencia, Ministerio de Salud, Managua, Nicaragua*, ³*Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States*, ⁴*Broad Institute, Cambridge, MA, United States*

11:15 a.m.

26

ESTIMATING THE INCIDENCE OF DENGUE FEVER IN CAMBODIA: RESULTS OF A CAPTURE RECAPTURE ANALYSIS

Sirenda Vong¹, Chantha Ngan², Philippe Buchy¹, Virak Khieu¹, Rekol Huy², Veasna Duong¹, Sivuth Ong¹, Socheat Duong², Moh Seng Chang³, Zhi-yi Xu⁴, Harold S. Margolis⁵

¹*Institut Pasteur - Cambodia, Phnom Penh, Cambodia*, ²*National Dengue Control Program - Ministry of Health, Phnom Penh, Cambodia*, ³*World Health Organization - Phnom Penh Office, Phnom Penh, Cambodia*, ⁴*International Vaccine Institute, Seoul, Republic of Korea*, ⁵*Pediatric Dengue Vaccine Initiative - International Vaccine Institute, Seoul, Republic of Korea*

11:30 a.m.

27

CHALLENGES FOR MEASURING GLOBAL DENGUE BURDEN: OVERCOMING SEVERE LIMITATIONS OF COUNTRY PASSIVE SURVEILLANCE SYSTEMS

Jose Suaya, Donald S. Shepard

Heller School, Brandeis University, Waltham, MA, United States

11:45 a.m.

28

MULTI-COUNTRY STUDY OF COSTS OF DENGUE AMONG AMBULATORY AND HOSPITALIZED PATIENTS

Jose A. Suaya¹, Donald S. Shepard¹, Blas Armien², Mariana Caram¹, Leticia Castillo³, Ngan Chantha⁴, Fátima Garrido⁵, Sukhontha Kongsin⁶, Lucy Lum⁷, Romeo Montoya⁸, Binod K. Sah¹, João B. Siqueira⁹, Rana Sughayyar¹, Karen Tyo¹

¹*Brandeis University, Waltham, MA, United States*, ²*Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama City, Panama*, ³*National Health Laboratory, Guatemala City, Guatemala*, ⁴*The National Dengue Control Program at the National Center for Malaria, Phnom Penh, Cambodia*, ⁵*Ministry of Health and Social Development, Caracas, Venezuela*, ⁶*Mahidol University, Bangkok, Thailand*, ⁷*University of Malaya Medical Center, Kuala Lumpur, Thailand*, ⁸*Ministry of Health and Social Assistance, San Salvador, El Salvador*, ⁹*Federal University of Goiás, Goiana, Brazil*

Symposium 19**Scaling Up ACTs - The Challenge of Monitoring and Ensuring Safety, and Developing an Effective Surveillance System in Malaria Endemic Regions**

Salon H

Monday, November 5, 2007 10:15 a.m. - Noon

As Artemisinin-based Combination Therapies begin to be widely used in malaria endemic countries, the public health community is faced with a formidable challenge of monitoring their safety. As these new drugs have only been carefully trialed in controlled settings in less than a few thousands patients for each drug, only an effective surveillance system will be able to pick up rare and serious adverse events. ACTs are currently not recommended for pregnant women in their first trimester, what are the data in embryo toxicity and what are their implications? How can a pregnancy exposure registry assist in monitoring the safety of ACTs? The session will also look at what types of surveillance systems are in place to monitor drug safety and which types of additional systems could be considered that are appropriate and feasible in developing countries.

CHAIR

Charles Mgone

European and Developing Countries Clinical Trials, The Hague, The Netherlands

10:15 a.m.

EMBRYOTOXICITY OF ARTEMISININS - USING PRECLINICAL DATA TO ASSESS POTENTIAL CONSEQUENCES FOR HUMAN USE

Robert Clark

Independent Consultant, Philadelphia, PA, United States

Detailed Program

10:40 a.m.

MONITORING THE SAFETY OF ACTS IN PREGNANCY - USE OF PREGNANCY EXPOSURE REGISTRIES

Feiko O. ter Kuile
Child and Reproductive Health, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

11:05 a.m.

ACTS IN ENDEMIC COUNTRY?

Alex Doodoo
University of Ghana Medical School, Accra, Ghana

11:30 a.m.

PROSPECTIVE FOR MONITORING NEW ACTS IN RURAL SETTINGS - OPTIMIZING THE USE OF DEMOGRAPHIC SURVEILLANCE SYSTEMS

Fred Binka
University of Ghana, Accra, Ghana

Symposium 20

The Transmission and Control of *Schistosoma Japonicum*

Salon II

Monday, November 5, 2007 10:15 a.m. - Noon

Approximately 1.5 million people are infected with *Schistosoma japonicum* in China and the Philippines. Although the life-cycle was accurately described nearly 100 years ago, the relative importance to human disease of the different parts of the life-cycle are not known, e.g. the concentration and infection status of different parasite stages and the number and infection status of non-human mammalian hosts. Ongoing ecological field studies in China and the Philippines have been designed to obtain quantitative and genetic evidence with which to reduce these uncertainties. The following are examples of specific questions likely to be addressed during the symposium: How much human infection would be averted by the widespread use of an effective bovine vaccine in the different countries? Do strains of *S. japonicum* preferentially infect different mammalian hosts? Can data on topology and rainfall be used to predict local between village infection dynamics?

CHAIR

Steven Riley
The University of Hong Kong, Hong Kong

10:15 a.m.

INTRODUCTION

Steven Riley
The University of Hong Kong, Hong Kong

10:25 a.m.

TRANSMISSION OF *S. JAPONICUM* IN 50 VILLAGES IN THE PHILIPPINES

Stephen T. McGarvey
Brown University, Providence, RI, United States

10:45 a.m.

ONGOING EPIDEMIOLOGICAL STUDIES OF *S. JAPONICUM* TRANSMISSION IN CHINA INCLUDING TRANSMISSION BLOCKING VACCINE STUDIES

Donald P. McManus
Queensland Institute of Medical Research, Brisbane, Australia

11:10 a.m.

TRANSMISSION OF *S. JAPONICUM* WITHIN AND BETWEEN NEARBY VILLAGES IN CHINA

Robert C. Spear
University of California, Berkeley, CA, United States

11:35 a.m.

A GENETIC COMPARISON OF *S. JAPONICUM* RECOVERED FROM MAMMALIAN HOSTS IN THE PHILIPPINES AND CHINA

Joanne P. Webster
Imperial College London, London, United Kingdom

Scientific Session 21

Intestinal and Tissue Helminths I: Cestodes

Salon KL

Monday, November 5, 2007
10:15 a.m. - Noon

CHAIR

Hector H. Garcia
Universidad Peruana Cayetano Heredia, Lima, Peru

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

10:15 a.m.

29

EFFICACY OF OXFENDAZOLE, ALBENDAZOLE AND PRAZIQUANTEL AGAINST CYSTIC ECHINOCOCCOSIS IN NATURALLY INFECTED SHEEP

Cesar M. Gavidia¹, Armando E. Gonzalez¹, Monica Llamosas¹, Eduardo A. Barron¹, Hector H. Garcia², Manuela R. Verastegui³, Robert H. Gilman⁴

¹Universidad Nacional Mayor de San Marcos, Facultad de Medicina Veterinaria, Lima, Peru, ²Instituto de Ciencias Neurologicas, Lima, Peru, ³Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴The Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, United States

10:30 a.m.

30

CLUSTERS OF CONFIRMED SWINE CYSTICERCOSIS INFECTION SURROUNDING TAENIA SOLIUM TAPEWORM CARRIERS

Andres G. Lescano¹, Armando E. Gonzalez², Robert H. Gilman³, Victor C.W. Tsang⁴, C. Sofia Arriola³, Daphne D. Ramos², André Díaz², Viterbo Aybar², Silvia Rodriguez⁵, Lawrence H. Moulton³, Elli Leontsini³, Guillermo Gonzalez⁶, Hector H. Garcia⁶, for the Cysticercosis Working Group in Peru⁶

¹US Naval Medical Research Center Detachment, Lima, Peru, ²Universidad Nacional Mayor de San Marcos, Facultad de Medicina Veterinaria, Lima, Peru, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Instituto de Ciencias Neurológicas, Unidad de Cisticercosis, Lima, Peru, ⁶Universidad Peruana Cayetano Heredia, Departamento de Microbiología, Facultad de Ciencias, Lima, Peru

10:45 a.m.

31

EFFICACY OF NICLOSAMIDE GIVEN AS MASS OR TARGETED TREATMENT FOR T. SOLIUM TAENIASIS

Juan Jimenez¹, Silvia Rodriguez², Luz Maria Moyano³, Guillermo Gonzalez³, Carmen Taquiri³, Luis Piscocoya³, Robert Gilman⁴, Armando Gonzales⁵, Victor Tsang⁶, Hector Garcia⁷, for The Cysticercosis Working Group in Peru⁸

¹School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ²Department of Microbiology (SR, CT, HG) and Cysticercosis Elimination Project (Tumbes) (LM, GG, LP), Universidad Peruana Cayetano Heredia, Lima, Peru, Cysticercosis Unit, Instituto de Ciencias Neurológicas, Lima, Peru, ³Department of Microbiology (SR, CT, HG) and Cysticercosis Elimination Project (Tumbes) (LM, GG, LP), Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁵School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁶Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁷Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁸Department of Microbiology (SR, CT, HG) and Cysticercosis Elimination Project (Tumbes) (LM, GG, LP), Universidad Peruana Cayetano Heredia, Lima, Peru, Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁸Universidad Peruana Cayetano Heredia, Lima, Peru

11 a.m.

32

CONTEMPORARY NEUROSURGICAL APPROACHES TO NEUROCYSTICERCOSIS

Leonardo Rangel-Castilla¹, Jose A. Serpa², Shankar P. Gopinath², Edward A. Graviss², **A. Clinton White**¹

¹University of Texas Medical Branch, Galveston, TX, United States, ²Baylor College of Medicine, Houston, TX, United States

11:15 a.m.

33

ANTIGEN-DETECTION IN NEUROCYSTICERCOSIS: SENSITIVITY AND SPECIFICITY ACCORDING TO PARASITE STAGE AND NUMBER OF LESIONS

Yesenia Castillo¹, Dorny Pierre², Patricia Arias¹, Milagrytos Portocarrero¹, Silvia Rodriguez³, Bjorn Victor², Kirezi Kanobana², Robert Gilman⁴, Gonzalez Armando⁵, Jef Brandt², Hector Garcia¹

¹UPCH, Department of Microbiology, Lima, Peru, ²Institute for Tropical Medicine, Antwerp, Belgium, ³Instituto de Ciencias Neurológicas, Lima, Peru, ⁴Department of International Health, Johns Hopkins School of Public Health, Baltimore, MD, United States, ⁵Universidad Mayor de San Marcos, School of Veterinary Medicine, Lima, Peru

(ACMCIP Abstract)

11:30 a.m.

34

COMPOSITION AND RELEASE PATTERN OF PARASITE GLYCOCONJUGATES DURING THE COURSE OF HUMAN AND EXPERIMENTAL NEUROCYSTICERCOSIS

Jorge I. Alvarez, Judy M. Teale

UTSA, San Antonio, TX, United States

(ACMCIP Abstract)

11:45 a.m.

35

IDENTIFICATION OF A 38 KDA SPECIFIC ANTIGEN FOR THE DIAGNOSIS OF COENUROSIS

Natalia Rojas¹, Saul J. Santivañez¹, Silvia Rodriguez², Mary L. Rodriguez¹, Carmen Calderon¹, Manuelita Verastegui¹, Armando E. Gonzales³, Hector H. Garcia²

¹UPCH, Department of Microbiology, School of Sciences, Lima, Perú, ²IECN, Lima, Peru, ³Universidad Nacional Mayor de San Marcos, School of Veterinary Medicine, Lima, Peru

(ACMCIP Abstract)

Scientific Session 22

Malaria - Vector Biology and Transmission

Liberty AB

Monday, November 5, 2007 10:15 a.m. - Noon

CHAIR

Carolina Barillas-Mury

National Institutes of Health, Rockville, MD, United States

Jerome Vanderberg

New York University School of Medicine, New York, NY, United States

10:15 a.m.

36

DEVELOPMENTAL ARREST OF MALARIA PARASITES IN MOSQUITOES FOLLOWING TREATMENT OF MICE WITH AS-I-145Lisa A. Purcell¹, Stephanie K. Yanow¹, Gabriele Pradel², Ana Rodriguez³, Moses Lee⁴, Terry W. Spithill¹¹McGill University, Institute of Parasitology and Centre for Host-Parasite Interactions, Sainte-Anne-de-Bellevue, QC, Canada, ²University of Würzburg, Research Center for Infectious Diseases, Würzburg, Germany, ³Department of Medical Parasitology, New York University School of Medicine, New York, NY, United States, ⁴Hope College, Division of Natural and Applied Sciences and Department of Chemistry, Holland, MI, United States

10:30 a.m.

37

DIRECT MICROSCOPIC QUANTIFICATION OF TRANSMISSION DYNAMICS OF *PLASMODIUM* SPOOROZOITES FROM MOSQUITOES TO MICE

Chahnaz Kebaier, Yamei Jin, Jerome Vanderberg

New York University School of Medicine, New York, NY, United States

10:45 a.m.

38

PLASMODIUM FALCIPARUM GENETIC STRUCTURE IN THE FOUR MAJOR AFRICAN ANOPHELES VECTORSZeinab Annan¹, Patrick Durand¹, Parfait Awono-Ambene², Frédéric Simard², Céline Arnathau¹, François Renaud¹, Didier Fontenille³¹Centre National de la Recherche Scientifique/Institut de Recherche pour le Développement, Montpellier, France, ²Institut de Recherche pour le Développement, Organisation de lutte Contre les Endémies en Afrique Centrale, Yaoundé, Cameroon, ³Institut de Recherche pour le Développement, Montpellier, France

11 a.m.

39

ANOPHELES GAMBIAE STAT PATHWAY PARTICIPATES IN MOSQUITO IMMUNITY

Lalita Gupta, Sanjeev Kumar, Carolina Barillas-Mury

National Institutes of Health, Rockville, MD, United States

11:15 a.m.

40

PRESENCE OF MALARIA ASEXUAL BLOOD STAGES SIGNIFICANTLY DECREASES THE BURDEN OF *P. FALCIPARUM* OOCYSTS IN *ANOPHELES* MOSQUITOES AFTER MEMBRANE FEEDING ASSAYSYessika Vasquez¹, Luke A. Baton², George Dimopoulos², Nirbhay Kumar²¹Johns Hopkins Malaria Research Institute Parasite Core, Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins School of Public Health, Baltimore, MD, United States

(ACMCIIP Abstract)

11:30 a.m.

41

SAMPLING TOOLS FOR ADULT MALARIA VECTORS IN URBAN DAR ES SALAAM, TANZANIANicodem Govella¹, Yvonne Geissbühler², Prosper Chaki¹, Japhet Kihonda¹, Robert Anderson³, Khadija Kannady⁴, Deo Mtasiwa⁵, Marcel Tanner², Ulrike Fillinger¹, Ulrike Fillinger⁶, Steven Lindsay⁶, Gerry Killeen¹¹Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ²Swiss Tropical Institute, Basel, Switzerland, ³Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ⁴Dar es Salaam Urban Malaria Control Programme, Dar es Salaam, United Republic of Tanzania, ⁵Dar es Salaam City Council, Dar es Salaam, United Republic of Tanzania, ⁶Durham University, Durham, United Kingdom

11:45 a.m.

42

HEROIC FAILURES? THE FIRST SOUTH ASIAN MALARIA CONTROL PROJECTS AFTER THE DISCOVERY OF MOSQUITO TRANSMISSIONG. Dennis Shanks¹, David J. Bradley²¹Australian Army Malaria Institute, Brisbane, Australia, ²Department of Zoology, University of Oxford, Oxford, United Kingdom**Scientific Session 23****Malaria - Vaccines II**

Liberty C

Monday, November 5, 2007 10:15 a.m. - Noon

CHAIR

Myriam Arevalo-Herrera

Malaria Vaccine and Drug Development Center, Cali, Colombia

Takafumi Tsuboi

Ehime University, Matsuyama, Ehime, Japan

10:15 a.m.

43

REPRODUCIBILITY OF A SPOOROZOITE CHALLENGE MODEL FOR *PLASMODIUM VIVAX* IN HUMAN VOLUNTEERSJohanna A. Parra¹, Leonardo Rocha², Ricardo Palacios³, Juan Diego Velez⁴, Judith Epstein⁵, Tom Richie⁵, Myriam Arevalo-Herrera¹, Socrates Herrera¹¹Malaria Vaccine and Drug Testing Center, Cali, Colombia, ²Immunology Institute, Cali, Colombia, ³Praca Marisa Marques-University Sao Pablo, Brazil, ⁴Fundación Clínica Valle de Lili, Cali, Colombia, ⁵Malaria Program, Naval Medical Research Center, Silver Spring, MD, United States

10:30 a.m.

44

COMPARISON OF THE IMMUNOGENICITY OF ADENOVIRUS 35-PFCS ALONE AND IN HETEROLOGOUS COMBINATION WITH AN ADENOVIRUS 5-PFCS CONSTRUCT

V. Ann Stewart¹, Shannon M. McGrath¹, Maria Grazia Pau², Pascal Mettens³, Patrice M. Dubois⁴, Joseph Shott¹, Maria-Ange Demoitie³, Jerome HHV Custers², Gerrit-Jan Weverling², Babak Bayat³, Marie-Noelle Donner³, Marie-Claude Dubois³, Joe Cohen³, Jaap Goudsmit², D. Gray Heppner¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Crucell Holland BV, Leiden, The Netherlands, ³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴ImmunoVacc Consulting, Brussels, Belgium

10:45 a.m.

45

A NON-ADJUVANTED SELF-ASSEMBLING POLYPEPTIDE NANOPARTICLE (SAPN) MALARIA VACCINE CONFERS STERILE PROTECTION TO LETHAL SPOOROZOITE CHALLENGE

Stephen A. Kaba¹, Clara Brando¹, David Tropel², Peter Burkhard³, David Lanar¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²M.E. Mueller Institute for Structural Biology, Basel, Switzerland, ³Alpha-O Peptides AG, Allschwil, Switzerland

11 a.m.

46

ENHANCED IMMUNOGENICITY OF MALARIA CS PEPTIDE VACCINES USING A TOPICAL ADJUVANT CONTAINING A POTENT SYNTHETIC TLR LIGAND, IMIQUIMOD

Dean Johnston¹, **Caroline Othoro**², Rebecca Lee², Jean-Claude Bystry³, Elizabeth Nardin²

¹Hunter College School of Health Sciences, New York, NY, United States, ²Department of Parasitology, School of Medicine, New York University, New York, NY, United States, ³Department of Dermatology and New York University Cancer Institute, School of Medicine, New York University, New York, NY, United States

11:15 a.m.

47

ANIMAL IMMUNOGENICITY STUDIES OF A BLOOD-STAGE MALARIA VACCINE BASED ON A COMBINATION OF AMA1 AND MSP1₄₂

Laura B. Martin, Carole A. Long, Hong Zhou, Sarimar Medina, Joseph Newland, Samuel E. Moretz, Lynn E. Lambert, Gregory E. Mullen, Allan Saul, Louis H. Miller

Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

11:30 a.m.

48

MONOVALENT AND BIVALENT ADENOVECTORED VACCINES EXPRESSING THE *PLASMODIUM FALCIPARUM* ANTIGENS AMA-1 AND MSP1-42 (3D7) ELICIT FUNCTIONAL ANTIBODIES IN NZW RABBITS

Noelle B. Patterson¹, Joseph T. Bruder², Keith Limbach¹, Andrew

McGrath², Bill Enright², C. Richter King², Bryan T. Butman², Kalpana Gowda¹, Ping Chen², Svetlana Konovalova², Samuel E. Moretz³, Hong Zhou³, Ababacar Diouf³, Thomas L. Richie¹, Sheng Li⁴, Lorraine Soisson⁵, Carter Diggs⁵, Emily Locke⁴, Walter Brandt⁴, Carole A. Long³, Denise L. Doolan¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²GenVec, Inc., Gaithersburg, MD, United States, ³Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States, ⁵United States Agency for International Development, Malaria Vaccine Development Program, Washington, DC, United States

11:45 a.m.

49

INDUCTION OF ANTIBODIES IN RABBITS AGAINST THE PREGNANCY MALARIA VACCINE CANDIDATE VAR2CSA USING *PICHA PASTORIS* YEAST AND PLASMID DNA IMMUNIZATION

Marion Avril¹, Bridget Kulasekara¹, Severin Gose¹, Chris Rowe², Madeleine Dahlbäck³, Ali Salanti³, Lynda Misher¹, David L. Narum², Joe D. Smith¹

¹Seattle Biomedical Research Institute, Seattle, WA, United States, ²MVDB/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ³Center for Medical Parasitology, Copenhagen, Denmark

Noon

572

A PHASE I/II B RANDOMIZED, DOUBLE-BLIND, CONTROLLED CLINICAL TRIAL OF THE SAFETY, IMMUNOGENICITY AND EFFICACY OF RTS,S/AS02D, A CANDIDATE MALARIA VACCINE IN MOZAMBIKAN INFANTS

Symposium 24

Genomics and Functional Genomics of Filarial Parasites

Franklin 1

Monday, November 5, 2007 10:15 a.m. - Noon

The Filarial Genome Project has been recently completed and an extensive analysis of the genome sequence has been prepared for publication. In addition to genomics, there are exciting areas of functional genomics that are being targeted by the filarial research community. These include microarrays, RNA interference, transgenesis and the study of the Wolbachia endosymbiont. Such new avenues of research will enable the identification of new drug targets and vaccine candidates that may prove useful in the Global Programme to Eliminate Lymphatic Filariasis.

CHAIR

Steven A. Williams

Smith College and Task Force for Child Survival and Development, Northampton, MA, United States

Elodie Ghedin

University of Pittsburgh School of Medicine, Pittsburgh, PA, United States

Detailed Program

10:15 a.m.

TRANSIENT TRANSFECTION TO STUDY TRANSCRIPTION IN FILARIA

Thomas R. Unnasch

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

10:40 a.m.

BRUGIA MALAYI: THE GENOME AND BEYOND

Elodie Ghedin

University of Pittsburgh School of Medicine, Pittsburgh, PA, United States

11:05 a.m.

THE WOLBACHIA ENDOSYMBIONT AS A POTENTIAL FILARIA-SIS DRUG TARGET

Barton Slatko

New England Biolabs, Ipswich, MA, United States

11:30 a.m.

MICROARRAYS IN STUDYING THE BIOLOGY OF FILARIAL PARASITES

Steven A. Williams

Smith College and the Task Force for Child Survival and Development, Northampton, MA, United States

Scientific Session 25

Bacteriology II - Water and Water Treatment

Franklin 2

Monday, November 5, 2007 10:15 a.m. - Noon

CHAIR

Karen Levy

University of California at Berkeley, Berkeley, CA, United States

Mark Sobsey

University of North Carolina, Chapel Hill, NC, United States

10:15 a.m.

50

SURVIVAL OF FRANCISELLA TULARENSIS TYPE A IN BRACKISH WATER

Zenda L. Berrada, Sam R. Telford

Tufts Cummings School of Veterinary Medicine, North Grafton, MA, United States

10:30 a.m.

51

DRIVERS OF VARIABILITY IN WATER QUALITY AND DIARRHEAL DISEASE IN NORTHERN COASTAL ECUADOR

Karen Levy¹, Alan Hubbard², Kara Nelson², Joseph Eisenberg³

¹Stanford University, Stanford, CA, United States, ²University of California Berkeley, Berkeley, CA, United States, ³University of Michigan, Ann Arbor, MI, United States

10:45 a.m.

52

RECONTAMINATION OF HOUSEHOLD DRINKING WATER: A CONTROLLED EXPERIMENT IN NORTHERN COASTAL ECUADOR

Karen Levy¹, Kara Nelson¹, Alan Hubbard¹, Joseph Eisenberg²

¹University of California Berkeley, Berkeley, CA, United States, ²University of Michigan, Ann Arbor, MI, United States

11 a.m.

53

HOUSEHOLD-SCALE DRINKING WATER TREATMENT IN CAMBODIA: A RANDOMIZED, CONTROLLED TRIAL OF LOCALLY MADE CERAMIC FILTERS

Joe Brown, Mark D. Sobsey

University of North Carolina School of Public Health, Chapel Hill, NC, United States

11:15 a.m.

54

HEALTH IMPACT STUDY OF THE BIOSAND FILTER IN BONA0, DOMINICAN REPUBLIC

Christine E. Stauber, Gloria M. Ortiz, Mark D. Sobsey

University of North Carolina - Chapel Hill, Chapel Hill, NC, United States

11:30 a.m.

55

A LONG-LIFE, POINT-OF-USE HOUSEHOLD DRINKING WATER PURIFICATION DEVICE BASED ON HALOGEN CHARGING OF POLYSTYRENEHYDANTOIN BEADS (HALOPURE)

Stephen Himley, Mickey Bridges, Jeffrey F. Williams, Hiroyuki Kawai, Jose Santiago, Nevada Ruehlen, Nicole VanKirk

HaloSource, Inc., Bothell, WA, United States

11:45 a.m.

56

EFFICACY OF ONE DROP POINT-OF-USE CHEMICAL DISINFECTANT TO INACTIVATE WATERBORNE MICROORGANISMS

Jennifer L. Murphy, Ashley F. Hiser, Mark D. Sobsey

University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

Symposium 26

Obligations to Participants in Research Trials in Developing Countries

Franklin 3/4

Monday, November 5, 2007 10:15 a.m. - Noon

It is commonly recognized that medical research brings with it special obligations to the subjects of research, especially where that research may be a major source of their medical care. As the extent of research in the developing world has increased, therefore, the question of what is owed to the participants in medical trials, both during and after the trials, has become particularly pressing. Various organizations, including the Council for

International Organizations of Medical Sciences (CIOMS), have issued guidelines about researchers' obligations. But the best test of the usefulness of such documents is how well they meet the requirements of morality when actually applied. Consequently, this symposium will provide a critical examination of some key ethics guidelines by looking at their application to cases. We will draw on the experience of government-sponsored researchers and public-private partnerships who are working on major health problems of communities in the developing world, such as Malaria and HIV/AIDS.

CHAIR

Joseph Millum

National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

ADDRESSING STANDARDS OF CARE IN THE CONTEXT OF MULTI-CENTER TRIALS

Tonya L. Villafana

Malaria Vaccine Initiative, Bethesda, MD, United States

10:45 a.m.

ADDRESSING ETHICAL CONSIDERATIONS IN UNDERTAKING MALARIA FIELD STUDIES IN DEVELOPING COUNTRIES

Isabela Ribeiro

Drugs for Neglected Diseases Initiative, Geneva, Switzerland

11:10 a.m.

THE NIH GUIDANCE FOR ADDRESSING THE PROVISION OF ANTIRETROVIRAL TREATMENT FOR TRIAL PARTICIPANTS

Seema Shah

National Institutes of Health, Bethesda, MD, United States

11:35 a.m.

ETHICAL THEORY AND ETHICAL PRACTICE

Joseph Millum

National Institutes of Health, Bethesda, MD, United States

Clinical Group Education Curriculum Committee Meeting

Room 336

Monday, November 5, 2007 12:15 p.m. - 1:15 p.m.

Certificate Exam Executive Committee Meeting

Room 362

Monday, November 5, 2007 12:15 p.m. - 1:15 p.m.

Exhibit Hall Open/Box Lunches

Franklin Hall B

Monday, November 5, 2007 Noon - 1:30 p.m.

Poster Session A (#57 – 299)

Franklin Hall B

Monday, November 5, 2007 Noon - 1:30 PM

Arthropods/Entomology - Other

57

THE INSIGHTS OF MANAGING INSECTICIDE RESISTANCE IN MALARIA VECTORS WITH THE PLANT EXTRACTS IN TROPICAL AFRICA

Eliningaya J. Kweka¹, Aneth M. Mahande², Emmanuel A. Temu³

¹Ifakara Health Research and Development Centre, Morogoro, United Republic of Tanzania, ²Joint Malaria Programme, Moshi, United Republic of Tanzania, ³Nagasaki University Japan, Nagasaki, Japan

(ACMCIP Abstract)

58

CLIMATE CHANGE AND VECTOR BORNE DISEASE IN THE UNITED STATES: QUO VADIS

Lars Eisen¹, Rebecca J. Eisen²

¹Colorado State University, Fort Collins, CO, United States, ²Division of Vector-Borne Infectious Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States

59

TICK BITE PREVENTION BEHAVIOR AMONG PARTICIPANTS IN THE GEORGIA TICK ATTACH STUDY

Laurel E. Garrison¹, Dana Cole¹, Marianne Vello¹, Michael J. Yabsley², Mason Y. Savage³, Gaylord Lopez⁴

¹Georgia Department of Human Resources, Division of Public Health, Atlanta, GA, United States, ²Southeastern Cooperative Wildlife Disease Study, College of Veterinary Medicine, and Warnell School of Forestry and Natural Resources, The University of Georgia, Athens, GA, United States, ³Southeastern Cooperative Wildlife Disease Study, College of Veterinary Medicine, The University of Georgia, Athens, GA, United States, ⁴Georgia Poison Center, Atlanta, GA, United States

60

COMPARISON OF IRRITANT EFFECTS OF DDT AND ALPHA-CYPERMETHRIN AGAINST RESISTANT AND SUSCEPTIBLE STRAINS OF Aedes aegypti (DIPTERA: CULICIDAE)

Isabelle C. Dusfour, John P. Grieco, Nicole L. Achee, Donald R. Roberts

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

61

EVALUATION OF THE FAT-TAILED JIRD, PACHYUROMYS DUPRASI NATRONENSIS (RODENTIA: GERBILLIDAE), AS A NEW ANIMAL MODEL FOR STUDIES OF LEISHMANIA TROPICA INFECTION AND TRANSMISSION

Hanafi A. Hanafi¹, Daniel E. Szumlas², Shabaan S. El-Hossary¹, Jeffrey T. Villinski¹, Noha Watany¹, El-Shaimaa M. Nour El-Din¹, Magda M. Abbassy¹, Yusuf Özbek³, David F. Hoel¹, David Fryauff⁴

¹U.S. Naval Medical Research Unit Number Three, Cairo, Egypt, ²Navy Entomology Center of Excellence, Jacksonville, FL, United States, ³Department of Parasitology, Medical School, Ege University, Izmir, Turkey, ⁴Infectious Disease Directorate, U.S. Naval Medical Research Center, Silver Spring, MD, United States

(ACMCIP Abstract)

62

MOLECULAR CLONING AND CHARACTERIZATION OF A NOVEL SPHINGOMYELINASE-LIKE PROTEIN FROM THE TICK *IXODES SCAPULARIS*

Francisco J. Alarcon-Chaidez, Venkata D. Boppana, Jianxin Sun, Adam J. Adler, Stephen K. Wikel

University of Connecticut Health Center, Farmington, CT, United States

63

ANALYSIS OF *IN SILICO* STEREOELECTRONIC PROPERTIES OF PMD (P-MENTHANE-3-8-DIOLS) AND ITS DERIVATIVES TO DEVELOP A PHARMACOPHORE FOR INSECT REPELLENT ACTIVITYApurba K. Bhattacharjee¹, Kamalesh R. Chauhan², Nagendrababu Bathini², John Greico³, Nicole Achee³, Kendra Lawrence⁴, John Paul Benante⁴, Raj K. Gupta⁵¹*Division of Experimental Therapeutics, Walter Reed Army Institute of Research, Silver Spring, MD, United States*, ²*United States Department of Agriculture, Agriculture Research Center Chemicals Affecting Insect Behavior Laboratory, Beltsville, MD, United States*, ³*Department of Preventive Medicine and Biometrics, Uniformed Services University of the Health Sciences, Bethesda, MD, United States*, ⁴*Division of Entomology, Walter Reed Army Institute of Research, Silver Spring, MD, United States*, ⁵*Office of the Science Director, Walter Reed Army Institute of Research, Silver Spring, MD, United States*

64

DIFFERENTIAL EXPRESSION OF SALIVARY GLAND CDNAS IN LABORATORY AND FIELD POPULATIONS OF *PHLEBOTOMUS PAPTASI*Marcelo Ramalho-Ortigao¹, Iliano V. Coutinho-Abreu¹, Gwen Stayback¹, Mariha Wadsworth¹, Emad Fawaz², Shaaban El-Hossary², Hanafi Hanafi², David Hoel², Mahmoud Abo-Shehada³, Jesus Valenzuela⁴, Shaden Kamhawi⁴, Rami Mukbel¹, Mary Ann McDowell¹¹*University of Notre Dame, Notre Dame, IN, United States*, ²*Naval Medical Research Unit #3, Cairo, Egypt*, ³*Jordan University of Science and Technology, Irbid, Jordan*, ⁴*National Institutes of Health, Rockville, MD, United States*

65

OVERVIEW OF DEPLOYED WARFIGHTER PROTECTION PROGRAM ACTIVITIES AT THE USDAS CENTER FOR MEDICAL, AGRICULTURAL AND VETERINARY ENTOMOLOGY

Gary G. Clark, Kenneth J. Linthicum

Agricultural Research Service, US Department of Agriculture, Gainesville, FL, United States

66

THE EFFECT OF WEST NILE VIRUS PERCEPTIONS AND KNOWLEDGE ON HUMAN PREVENTION PRACTICES AND VECTOR BREEDING IN RESIDENTIAL YARDS IN UPSTATE NEW YORK

Wieteke Tuiten, Constantianus J. Koenraad, Katherine McComas, Laura C. Harrington

Cornell University, Ithaca, NY, United States

67

MICROGEOGRAPHICAL ANALYSIS OF GENETIC STRUCTURE IN *TRIATOMA INFESTANS* POPULATIONS FROM NORTHERN ARGENTINAPaula L. Marcet¹, Ana Paula Cutrera², LeeAnn Jones³, Ricardo E. Gürtler⁴, Uriel Kitron⁵, Ellen M. Dotson³¹*Lab. Eco-Epidemiología, University Buenos Aires-Centers for Disease Control and Prevention-Entomology Branch, Chamblee, GA, United States*, ²*Lab. Ecofisiología-FCEN-University Nacional de Mar del Plata, Mar del Plata, Argentina*, ³*Centers for Disease Control and Prevention-Entomology Branch, Chamblee, GA, United States*, ⁴*Lab. Eco-Epidemiología, University Buenos Aires, Buenos Aires, Argentina*, ⁵*University of Illinois- College of Veterinary Medicine, Urbana, IL, United States*

68

FAST-GAS: A FIELD-DEPLOYABLE SOURCE OF CARBON DIOXIDE FOR USE IN VECTOR SURVEILLANCEPhilipp Kirsch¹, Francis X. Webster², Darek Czokajlo¹, Christopher V. Sack¹, John R. McLaughlin¹¹*APTIV Inc., Portland, OR, United States*, ²*State University of New York - Environmental Science and Forestry, Syracuse, NY, United States*

69

EVALUATION OF EARLY INFLAMMATORY RESPONSE EXPRESSION IN RESPONSE TO *PHLEBOTOMUS DUBOSQI* BITES

Clarissa R. Teixeira, Shaden Kamhawi, Regis B. Gomes, Luiz F. Oliveira, Dia-eldin Elnaiem, Jesus G. Valenzuela

National Institute of Allergy and Infectious Disease, National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

Cestodes - Cysticercosis

70

SERO-PREVALENCE OF CYSTICERCOSIS IN CHILDREN, ADOLESCENTS AND ADULTS LIVING IN A SCHISTOSOMIASIS ENDEMIC COMMUNITY IN LEYTE, THE PHILIPPINESJin-Mei Xu¹, Luz P. Acosta², Min Hou¹, Daria L. Manalo², Mario Jiz², Blanca Jarilla², Archie O. Pablo², Remigio M. Ovleda², Gretchen Langdon³, Jennifer Friedman³, Stephen T. McGarvey⁴, Jonathan Kurtis³, Hai-Wei Wu¹¹*Nanjing Medical University, Nanjing, Jiangsu, China*, ²*Department of Immunology, Research Institute for Tropical Medicine, Department of Health, Manila, Philippines*, ³*Center for International Health Research, Rhode Island Hospital, Providence, RI, United States*, ⁴*International Health Institute, Brown University School of Medicine, Providence, RI, United States*

Cestodes – Echinococcosis/Hydatid

71

CHILDREN SEROLOGY OF ECHINOCOCCOSIS INFECTION AS AN ENVIRONMENTAL HEALTH INDICATOR TO GUIDE PREVENTIVE ACTIVITIES IN NINGXIA, PR CHINA

Yu R. Yang¹, Philip S. Craig², Dominique A. Vuitton³, Tao Sun¹, Gail M. Williams⁴, Zheng Z. Li¹, Belchis Boufana², Patrick Giraudoux³, Yan B. Li¹, Ling Huang¹, Wei Zhang¹, Donald P. McManus⁵

¹Ningxia Medical College, Yinchuan City, Ningxia Hui Autonomous Region, China, ²Medical Research Institute, University of Salford, Greater Manchester, United Kingdom, ³WHO Collaborating Centre for Prevention and Treatment of Human Echinococcosis, University of Franche-Comte and University Hospital, Besancon, France, ⁴School of the Population Health, University of Queensland, Brisbane, Australia, ⁵Queensland Institute of Medical Research, Brisbane, Australia

72

COMPARISON OF RECOMBINANT AGB ELISA WITH COMMERCIALY AVAILABLE ELISA IGG IN THE DIAGNOSIS OF CYSTIC ECHINOCOCCOSIS

Enrico Brunetti¹, Akira Ito², Antonella Grisolia³, Francesca Tamarozzi³, Yasuhito Sako², S. Itoh², Minoru Nakao², Simona Gatti⁴, Valeria Meroni¹, Francesca Genco³, Carmine Tinelli⁴, Carlo Filice¹

¹University of Pavia- S.Matteo Hospital Foundation, Pavia, Italy, ²Asahikawa Medical College, Asahikawa, Hokkaido, Japan, ³University of Pavia, Pavia, Italy, ⁴S.Matteo Hospital Foundation, Pavia, Italy

73

PAIR V CONSERVATIVE SURGERY FOR UNCOMPLICATED ECHINOCOCCAL CYSTS: EVALUATION OF COSTS IN ITALY

Enrico Brunetti¹, Antonella Grisolia², Giorgio Battelli³, Mario Alessiani¹, Carlo Filice¹

¹University of Pavia- S.Matteo Hospital Foundation, Pavia, Italy, ²University of Pavia, Pavia, Italy, ³University of Bologna, Bologna, Italy

74

PRELIMINARY RESULTS FROM A SURVEY ON KNOWLEDGE, ATTITUDES AND PRACTICES REGARDING CLINICAL MANAGEMENT OF CYSTIC ECHINOCOCCOSIS IN EUROPEAN, NORTH AFRICAN AND MIDDLE EASTERN COUNTRIES

Enrico Brunetti

University of Pavia, Pavia - On Behalf of the EchinoNet Group, Italy

75

IN VITRO AND IN VIVO ACTIVITY OF THE ANTI-CANCER AGENT 2-METHOXYESTRADIOL (2ME2), EITHER ALONE OR IN COMBINATION WITH ALBENDAZOLE, AGAINST ECHINOCOCCUS MULTILOCULARIS METACESTODES

Martin Spicher, Arunasalam Naguleswaran, **Andrew Hemphill**

University of Berne, Berne, Switzerland

Clinical Tropical Medicine

76

PLASMODIUM VIVAX ASSOCIATED ACUTE RESPIRATORY DISTRESS SYNDROME AFTER EXTENDED TRAVEL IN AFGHANISTAN

Jason D. Maguire¹, Augustina I. Susanti², Michael E. Fenton³, Jeffrey B. Walker³, Robert V. Barthel³

¹U.S. Navy Expeditionary Medical Facility, Arifjan, Kuwait, ²Naval Medical Research Unit #2, Jakarta, Indonesia, ³Naval Medical Center Portsmouth, Portsmouth, VA, United States

77

DON'T PICK THE WILD MUSHROOMS! A RARE CASE OF LIVER FAILURE DUE TO MUSHROOM POISONING IN NEW YORK STATE

Taynet T. Febles, George Haralambou, Deborah Asnis, Ehsan Ali
Flushing Hospital Medical Center, Flushing, NY, United States

78

LEPROSY IN AGUA DE DIOS LEPROSARIUM - COLOMBIA, 2006: PATIENT CHARACTERISTICS AND APPLICATION OF MOLECULAR METHODS FOR DRUG RESISTANCE SURVEILLANCE AND STRAIN TYPING

Nora M. Cardona-Castro¹, Juan C. Beltrán-Alzate¹, Fernando Torres-Jiménez², Patrick J. Brennan³, Vara Vissa³

¹Instituto Colombiano de Medicina Tropical - CES, Sabaneta, Antioquia, Colombia, ²Hospital Agua de Dios, Agua de Dios, Cundinamarca, Colombia, ³Colorado State University, Fort Collins, CO, United States

79

MYIASIS EVEN IN A DESERT ENVIRONMENT? SARCOPHAGIDAE AND OTHER LARVAL INFECTIONS IN KUWAIT

Parsotam R. Hira¹, Mahmoud M. Marzouk², E. M. El-Aassar³, Faiza M. Al-Ali³, Fatima A. Al-Shelahi³, Nabila Khalid¹, Martin J. Hall⁴

¹Department of Microbiology, Kuwait City, Kuwait, ²Department of Surgery, Farwania Hospital, Kuwait City, Kuwait, ³Department of Microbiology, Farwania Hospital, Kuwait City, Kuwait, ⁴Department of Entomology, Natural History Museum, London, United Kingdom

80

BASELINE STUDY ON MALARIA DISEASE WITH ETHNIC MINORITY GROUP IN RATTANAKIRI PROVINCE

Bou Kheng Thavrin Thavrin

National Malaria Center, Phnom Penh, Cambodia

81

LARGE SCALE FOLLOW-UP AND MANAGEMENT OF HUMAN VACCINATIONS BY WEB-BASED HIGH PERFORMANCE DATABASE SOFTWARE IPGVAX: CONCEPT AND FIELD EVALUATION IN GUADELOUPE (FRENCH CARIBES)

Ronald Perraut¹, Fabrice Saintpere¹, Bertrand Guillard¹, Marcel Sigiscar¹, Olivier Angele², Fabrice Renia³, Florelle Bradamantis³, Patrice Richard³

¹Institut Pasteur Guadeloupe, Abymes, Guadeloupe, ²C2i Caraibes, Jarry, Guadeloupe, ³Direction de la Santé et Développement Social, Basse Terre, Guadeloupe

82

SCHOOL-BASE DENGUE CONTROL PILOT PROJECT IN CAMBODIA**Chea MonThavy***National Malaria Center, Phnom Penh, Cambodia*

83

GLUCOSE-6-PHOSPHATE DEHYDROGENASE (G6PD) MUTATIONS IN CAMBODIA: G6PD VIANGCHAN (871G>A) IS THE MOST COMMON VARIANT IN THE CAMBODIAN POPULATION**Chea Nguon***National Malaria Center, Phnom Penh, Cambodia*

84

POLYMERASE CHAIN REACTION WITH TWO MOLECULAR TARGETS IN MUCOSAL LEISHMANIASIS' DIAGNOSIS: A VALIDATION STUDY**Sandra H. Muvdi***Centro Dermatologico Federico Lleras Acosta, Bogota, Colombia*

85

ZINC, COPPER AND IRON IMBALANCE IN INDIAN KALA-AZAR**Chandra S. Lal**, Anil Kumar, Sanjay Kumar, Prabhat K. Sinha, Krishna Pandey, Rakesh B. Verma, Pradeep Das*Rajendra Memorial Research Institute of Medical Sciences, Patna, India*

86

INTEGRATION OF INFORMATION TECHNOLOGIES IN CLINICAL STUDIES IN NICARAGUA**William Aviles**¹, Oscar Ortega¹, Guillermina Kuan², Samantha Hammond¹, Josefina Coloma³, Eva Harris³*¹Sustainable Sciences Institute, Managua, Nicaragua, ²Socrates Flores Vivas Health Center, Managua, Nicaragua, ³Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States*

87

TREATMENT PATTERNS AND THE COST IMPLICATIONS OF CLINICAL, MICROSCOPY AND RAPID DIAGNOSTIC TESTS FOR MALARIA DIAGNOSIS AT HEALTH FACILITIES IN ZAMBIA**Pascalina Chanda***National Malaria Control Centre, Lusaka, Zambia*

88

ACTIVITIES OF ARTEMETHER-LUMEFANTRINE AND AMODIAQUINE-SULFALENE-PYRIMETHAMINE AGAINST SEXUAL STAGE PARASITES IN FALCIPARUM MALARIA IN CHILDREN**Akintunde Sowunmi**, Grace O. Gbotosho, Christian T. Happi, Ahmed A. Adedjeji, Olayinka M. Bolaji, Fatai A. Fehintola, Onikepe A. Folarin, Tunde Balogun*Department of Pharmacology and Therapeutics and Institute for Medical Research and Training, University of Ibadan, Ibadan, Nigeria*

89

AZITHROMYCIN FOR THE TREATMENT OF AMERICAN CUTANEOUS LEISHMANIASIS. PRE-CLINICAL AND CLINICAL DATA**Alejandro J. Krolewiecki**¹, Angel Sinagra², Concepción Luna², Silvana Cajal³, Héctor Romero³, Marisa Juarez³, Tutsuyuki Mimori⁴, Adriana Di Paolo³, Matsumoto Tamami⁴, Adelina Riarte², David Abraham⁵, Néstor Taranto³*¹Fundacion Huesped, Buenos Aires, Argentina, ²Instituto Nacional de Parasitología "Mario Fatała Chaben", Buenos Aires, Argentina, ³Instituto de Investigaciones en Enfermedades Tropicales. Universidad Nacional de Salta, Sede Regional Orán, Orán, Argentina, ⁴Departments of Microbiology and Medical Technology, School of Health Sciences, Kumamoto University, Kumamoto, Japan, ⁵Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA, United States*

90

THE PREVALENCE OF SUBSTANDARD AND COUNTERFEIT PRESCRIPTION DRUGS IN CHENNAI (FORMER MADRAS), INDIA**Michael Seear**¹, Deepika Gandhi¹, Roxanne Carr¹, A. Dayal², D. Raghavan³*¹Vancouver Children's Hospital, Vancouver, BC, Canada, ²Apollo Hospital, Chennai, India, ³Apollo Hospital, Chennai, India*

91

GRAM NEGATIVE BACILLARY INFECTIONS AMONG CANCER PATIENTS AT AL-AMAL HOSPITAL IN DOHA/QATAR**Adil Makkiya**¹, Maysaa Alkeilani¹, Mohammad S. Al-Ani²*¹Department of Health Sciences/Qatar University, Doha, Qatar, ²Al-Amal Hospital for Haemato-Oncology, Doha, Qatar*

92

TANNINS, IONS, CATIONS AND MALARIASIS: OBSERVATIONS AND THEORY**Deepak Bhatt Acharya***Orissa Research Laboratory, Bhubaneswar, Orissa, India*

93

CASE MANAGEMENT AND OUTCOMES FOR CHILDREN PRESENTING WITH FEVER AND NEGATIVE BLOOD SMEARS AT GOVERNMENT HEALTH CENTERS IN UGANDA**Joaniter I. Nankabirwa**¹, Joan Kalyango¹, Charles Karamagi¹, Moses Kamya¹, Grant Dorsey², Stefan Peterson³, Heidi Hopkins²*¹Makerere University, Kampala, Uganda, ²University of California, San Francisco, San Francisco, CA, United States, ³International Health (IHAR), Karolinska Institutet, Stockholm, Sweden*

94

EFFICACY AND PHARMACOKINETICS OF ARTEKIN (DIHYDROARTEMISININ AND PIPERAQUINE) FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN VIETNAM**Michael D. Edstein**¹, Nguyen V. Dao², Nguyen D. Ngoa², Nguyen D. Hue², Le T. Thuy², Nguyen D. The², Nguyen X. Thanh³, Bui Dai³, Thomas Travers¹*¹Australian Army Malaria Institute, Brisbane, Australia, ²Military Hospital 175, Ho Chi Minh City, Vietnam, ³Military Institute of Hygiene and Epidemiology, Hanoi, Vietnam*

95

EFFECTIVENESS OF EXISTING NET DISTRIBUTION STRATEGIES FOR ACHIEVING COMMUNITY-WIDE COVERAGE AND PROTECTION IN RURAL TANZANIARashid A. Khatib¹, Betty F. Ettling¹, Gerry F. Killeen¹, Salim M. Abdulla¹, Steven P. Kachur²¹Ifakara Health Research and Development Center, Dar es salaam, United Republic of Tanzania, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

96

PERFORMANCE OF A MALARIA RAPID DIAGNOSTIC TEST VERSUS TRADITIONAL MICROSCOPY AMONG RURAL UGANDAN OUTPATIENTSLisa A. Mills¹, Lydia R. Blank², Joseph Kagaayi³, Simon Aluma³, Joseph Shott⁴, John B. Bwanika³, Maria J. Wawer⁵, David Serwadda³, Thomas C. Quinn⁴, Steven J. Reynolds⁴, Ronald L. Gray⁵¹Johns Hopkins School of Medicine, Baltimore, MD, United States, ²Becton Dickinson Diagnostic Systems, Cockeysville, MD, United States, ³Rakai Health Sciences Program, Kalisizo, Uganda, ⁴National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ⁵Johns Hopkins School of Public Health, Baltimore, MD, United States

97

ECONOMIC ASSESSMENT OF PUTATIVE CONTROL STRATEGIES AGAINST NEOSPORAS CANINUMBruno Gottstein¹, Barbara Haesler², Martin Reist², Regula Getraud², Katharina Staerk²¹Institute of Parasitology, Bern, Switzerland, ²Swiss Federal Veterinary Office, Bern, Switzerland

98

IMMUNIZATION WITH LEPTOSPIRAL IMMUNOGLOBULIN-LIKE (LIG) PROTEIN WITH ALUMINIUM HYDROXIDE ADJUVANT CONFERS STERILIZING IMMUNITY IN THE HAMSTER MODEL FOR LEPTOSPIROSISFlavia W. McBride¹, Marco Medeiros², Alan J. McBride¹, Claudio P. Figueira¹, Gabriela Esteves², Adenizar Chagas Júnior¹, Cleiton Santos¹, James Matsunaga³, David Haake³, Akira Homma², Ricardo Galler², Mitermayer G. Reis¹, Albert I. Ko⁴¹Oswaldo Cruz Foundation, Salvador, Brazil, ²Oswaldo Cruz Foundation, Rio de Janeiro, Brazil, ³School of Medicine, University of California at Los Angeles, Los Angeles, CA, United States, ⁴Weill Medical College of Cornell University, New York, NY, United States

99

MORBIDITY AND MORTALITY PATTERNS OF MEDICAL ADMISSIONS IN A NIGERIAN SECONDARY HEALTH CARE HOSPITALAduragbenro D. Adedapo¹, Funmi Fawole¹, Afolabi Bamgboye¹, Omowunmi Y. Osinubi²¹College of Medicine, University of Ibadan, Nigeria, Ibadan, Nigeria, ²University of Medicine and Dentistry of New Jersey - School of Public Health, Piscataway, NJ, United States

100

MALARIA TRANSMISSION INTENSITY AND MORBIDITY PATTERNS IN PARTS OF THE IMO RIVER BASIN, SOUTH EASTERN NIGERIAUchechukwu M. Chukwuocha¹, Ikechi N. Dozie², Betram E. Nwoke², Celestine O. Onwuliri¹, Okwuoma C. Abanobi¹¹Federal University of Technology, Owerri, Nigeria, ²Imo State University, Owerri, Nigeria

101

TOXOPLASMA GONDII AND TOXOCARA SPP. CO-INFECTIONJeffrey L. Jones¹, Deanna Kruzon-Moran², Kim Won¹, Marianna Wilson¹, Peter M. Schantz¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²National Center for Health Statistics, Centers for Disease Control and Prevention, Hyattsville, MD, United States

102

A QUANTITATIVE ALGORITHM FOR PRIORITIZATION OF NATURALLY OCCURRING INFECTIOUS DISEASE THREATS TO THE U.S. MILITARYTom J. Palys¹, John Scovill², Charles H. Hoke³, Jerry Abrams², Kevin Hanson⁴, Kathryn Clark⁴, Lynn W. Kitchen¹, David W. Vaughn¹, W. Neal Burnette⁵¹Military Infectious Diseases Research Program, U.S. Army, Fort Detrick, MD, United States, ²Science Applications International Corporation, McLean, VA, United States, ³Anteon Corporation, Fairfax, VA, United States, ⁴Armed Forces Medical Intelligence Center, Fort Detrick, MD, United States, ⁵Molecular Pharmaceutics Corporation, Westlake Village, CA, United States

103

MORTALITY RATES IN COHORTS OF CHILDREN TWO YEARS AFTER SEVERE OR MILD MALARIA IN RURAL NORTHERN GHANAFrancis Anto¹, Abraham Oduro¹, Frank Atuguba¹, Martin Adjuik¹, Nathan Mensah¹, Thomas Anyorigiya¹, Abraham Hodgson¹, Kwadwo A. Koram²¹Navrongo Health Research Centre, Navrongo, Ghana, ²Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana

104

INFORMATICS FOR DISEASE SURVEILLANCE IN DEVELOPING COUNTRIES: EVALUATION OF THE EARLY WARNING OUTBREAK RECOGNITION SYSTEM (EWORS)Jean-Paul Chretien¹, Khanthong Bounlu², Wita Larasati³, Kanti Laras³, Cecilia Mundaca⁴, Andreas Lescano⁴, Luis Suarez-Ognio⁵, Jose Bolarte⁵, Cesar Munayco⁵, Jonathan Glass³, David Blazes⁴, Howard Burkom⁶, Jacqueline Coberly⁶, Wayne Loschen⁶, Richard Wojcik⁶, Sheri Lewis⁶¹DoD Global Emerging Infections Surveillance and Response System, Silver Spring, MD, United States, ²National Center for Laboratory and Epidemiology, Ministry of Health, Vientiane, Lao People's Democratic Republic, ³US Naval Medical Research Unit-2, Jakarta, Indonesia, ⁴US Naval Medical Research Center Detachment, Lima, Peru, ⁵Dirección General de Epidemiología, Ministry of Health, Peru, Lima, Peru, ⁶Johns Hopkins University Applied Physics Laboratory, Laurel, MD, United States

Flaviviridae - Dengue

105

STUDY ON THE CORRELATIONS AMONG OF CLIMATE FACTORS, MOSQUITO INDICES AND EPIDEMICS OF DENGUE IN KAOHSIUNG, TAIWAN**Chuin-Shee Shang**¹, Chung-Ming Liu², Yi-Shiuan Li¹, Chwan-Chuen King¹¹Institute of Epidemiology, College of Public Health, National Taiwan University, Taipei City, Taiwan, ²Global Change Researching Center, National Taiwan University, Taipei City, Taiwan

106

SEROTYPE DETERMINATION AND ELUCIDATION OF NEW DENGUE GENOTYPE MARKERS VIRUS THROUGH THE STUDY OF THE NON-STRUCTURAL NS5 GENE**Catalina E. Gardella**¹, Gerardo Pérez², Alejandro Cisneros³, Joel Navarrete⁴, Luis R. Ramírez⁵, Minerva Camacho-Nuez², Maria de L. Muñoz¹¹Centro de Investigación y de Estudios Avanzados del IPN, Mexico D.F., Mexico, ²Universidad Autónoma de la Ciudad de Mexico, Mexico D.F., Mexico, ³Universidad Autónoma Benito Juárez, Oaxaca, Mexico, ⁴División de Epidemiología, IMSS, Mexico D.F., Mexico, ⁵Laboratorio Estatal de Salud Pública, Oaxaca, Mexico

107

VIROLOGICAL AND SEROLOGICAL SURVEILLANCE OF DENGUE FEVER/DENGUE HEMORRHAGIC FEVER IN THAILAND, 2003 TO 2006**Surapee Anantapreecha**¹, Sumalee Chanama¹, Atchareeya A-nuegoonpipat¹, Sirirat Naemkhunhot¹, Pornsiri Boonpradit¹, Walailuk Sukprasert¹, Ichiro Kurane², Pathom Sawanpanyalert¹¹National Institute of Health, Department of Medical Sciences, Ministry of Public Health, Nonthaburi, Thailand, ²Department of Virology I, National Institute of Infectious Diseases, Toyama, Shinjuku-ku, Tokyo Japan

108

LONG-TERM CLIMATE AND ENDEMIC DENGUE TRANSMISSION**Michael Johansson**¹, Greg Glass²¹Centers for Disease Control and Prevention, San Juan, PR, United States, ²Johns Hopkins School of Public Health, Baltimore, MD, United States

109

COMMUNITY PARTICIPATION PROJECT FOR DENGUE PREVENTION AND CONTROL IN PUERTO RICO: ENTOMOLOGIC SURVEY RESULTS IN 2005-2006**Aurimar Ayala-López**, Carmen Pérez-Guerra

Centers for Disease Control and Prevention, San Juan, PR, United States

110

CHANGES IN PATTERNS OF DENGUE TRANSMISSION IN A PEDIATRIC COHORT STUDY IN NICARAGUA**Guillermina Kuan**¹, Angel Balmaseda², Oscar Ortega³, Nicole Fitzpatrick³, William Aviles³, Andrea Nuñez², Crisanta Rocha⁴, Stephen Waterman⁵, Alcides Gonzalez², Juan Jose Amador⁶, Eva Harris⁷¹Socrates Flores Vivas Health Center, Managua, Nicaragua, ²Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ³Sustainable Sciences Institute, Managua,Nicaragua, ⁴Hospital Infantil Manuel de Jesus Rivera, Managua, Nicaragua, ⁵University of California, San Diego, San Diego, CA, United States, ⁶Dirección de Salud Ambiental y Epidemiología, Ministry of Health, Managua, Nicaragua, ⁷Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

111

VERY EFFECTIVE DENGUE VACCINES INCREASE THE INCIDENCE OF DENGUE HEMORRHAGIC FEVER IN NON-VACCINATED POPULATION: AN ISSUE OF MEDICAL ETHICS AND SOCIAL EQUITY**Yoshiro Nagao**

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

112

PREDICTIVE VALUE OF CLINICAL FINDINGS FOR THE EARLY DIAGNOSIS OF DENGUE INFECTION**Luz Quiñones**, Mary M. Ramos, Kay M. Tomashek, D. Fermín Arguello, Aidsa Rivera, Jorge L. Muñoz-Jordan

Centers for Disease Control and Prevention, San Juan, PR, United States

113

DENGUE INFECTION IN BHUTANTandin Dorji¹, **In-Kyu Yoon**², Ananda Nisalak², Richard Jarman², Khin S. Myint², Robert V. Gibbons²¹Department of Public Health, Thimphu, Bhutan, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

114

DEVELOPMENT OF A DEN-2 PDK-53-BASED CHIMERIC TETRAVALENT VACCINE**Richard M. Kinney**¹, Claire Y.-H. Huang², O'Neil Wiggan¹, Shawn J. Silengo², A. P. Kalanidhi³, Jorge E. Osorio⁴, Dan T. Stinchcomb¹¹InViragen, Inc., Fort Collins, CO, United States, ²Division of Vector-Borne Infectious Diseases of the Centers for Disease Control and Prevention, Fort Collins, CO, United States, ³Shantha Biotechnics, Hyderabad, India, ⁴University of Wisconsin, Madison, WI, United States

115

A PHASE 1 CLINICAL TRIAL OF A DENGUE-1 DNA VACCINE: PRELIMINARY RESULTS**Charmagne Beckett**¹, Jeffrey Tjaden², Timothy Burgess³, Janine Danko¹, Cindy Tamminga¹, Monika Simmons¹, Shuenn-Jue Wu¹, Peifang Sun¹, Tadeusz Kochel¹, Kanakatte Raviprakash¹, Curtis Hayes¹, Kevin Porter¹¹Naval Medical Research Center, Silver Spring, MD, United States, ²Naval Medical Research Unit #3, Cairo, Egypt, ³Naval Medical Research Unit #2, Jakarta, Indonesia

116

PROTECTIVE EFFECT OF PRIMARY HETEROLOGOUS DENGUE VIRUS INFECTION IN A MOUSE MODEL FOR SECONDARY INFECTION**Jennifer L. Kyle**, Luhua Zhang, Scott J. Balsitis, P. Robert Beatty, Eva Harris

Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

117

MECHANISMS OF THROMBOCYTOPENIA IN DENGUE VIRUS-INFECTED MICE

Scott J. Balsitis, Diana Flores, P. Robert Beatty, Eva Harris
Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

118

CLINICAL CHARACTERIZATION AND ECONOMIC IMPACT OF THE DENGUE EPIDEMIC IN PANAMA IN THE YEAR 2005

Blas Armien¹, Evelia Quiroz¹, Jose A. Suaya², Vicente Bayard¹, Loyd Marchena¹, Cornelio Campos³, Donald S. Shepard²

¹ICGES, Panama, Panama, ²Brandeis University, Boston, MA, United States, ³Ministerio Salud, Panama, Panama

119

INEFFICACY OF THE TREATMENT WITH A HIGH DOSE OF INTRAVENOUS IMMUNOGLOBULIN ON SEVERE THROMBOCYTOPENIA IN PATIENTS WITH SECONDARY DENGUE VIRUS INFECTION

Kazunori Oishi¹, Efren Dimaano², Mariko Saito³, Filipinas Natividad⁴

¹Research Institute for Microbial Disease, Osaka University, Suita, Japan, ²San Lazaro Hospital, Manila, Philippines, ³Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan, ⁴St. Luke's Medical Center, Quezon City, Philippines

120

IL-5 LEVELS AND PAIN INTENSITY CORRELATED TO HIGH DENGUE 3 VIRAL LOADS

Renata T. Nascimento, Alessandra C. Gomes-Ruiz, Benedito A. Fonseca

FMRP -USP, Ribeirão Preto, Brazil

Flaviviridae - Other

121

ASSESSING THE IMPACT OF VIRAL ASSAYS METHODS IN THE ESTIMATION OF INFECTION RATES FROM FIELD CAUGHT MOSQUITOES

Dulce M. Bustamante, Kendra Pesko, Cynthia Lord

Florida Medical Entomology Laboratory, University of Florida, Vero Beach, FL, United States

122

SAFETY AND IMMUNOGENICITY OF CONCOMITANT VACCINATION WITH IC51 AND HEPATITIS A VACCINE IN HEALTHY SUBJECTS. A SINGLE-BLIND RANDOMIZED CONTROLLED PHASE 3 STUDY

Claudia Lehner¹, Gerald Eder², Alessandra Formica¹, Astrid Kaltenböck¹, Christoph Klade¹, Herwig Kollaritsch³, Maria Paulke-Korinek³, Frank von Sonnenburg⁴, Erich Tauber¹

¹Intercell AG, Vienna, Austria, ²Karl Landsteiner Institut für Infektionsepidemiologie und Impfwesen, St. Pölten, Austria, ³Department of Specific Prophylaxis and Tropical Medicine at the Institute of Pathophysiology, Medical University Vienna, Vienna, Austria, ⁴Department of Infectious Diseases and Tropical Medicine, University of Munich, Munich, Germany

123

MOLECULAR CHARACTERIZATION OF ENVELOPE GENE FOR HUMAN FATAL AND NON-FATAL YELLOW FEVER ISOLATES: DETECTION OF SPECIFIC MUTATION AT POSITIONS E147 AND E154

Lívia C. Martins¹, Ana C. Cruz¹, Márcio R. Nunes¹, Eliana V. da Silva¹, Jannifer O. Chiang¹, Juarez A. Quaresma², **Pedro F. Vasconcelos**¹

¹Instituto Evandro Chagas, Belém, Brazil, ²Universidade Federal do Pará, Belém, Brazil

124

CHARACTERIZATION OF ANTIGENIC CHIMERIC ST. LOUIS ENCEPHALITIS VIRUS/DENGUE VIRUS TYPE 4 RECOMBINANT VIRUSES IN MICE AND MONKEYS

Joseph Blaney, Anthony Wlazlo, James Speicher, Neeraj Sathe, Christopher Hanson, Brian Murphy, Stephen Whitehead, Alexander Pletnev

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

125

ASSAY FOR AND REPLICATION OF KARSHI (MAMMALIAN TICK-BORNE FLAVIVIRUS GROUP) VIRUS IN MICE

Chris Whitehouse¹, Michael J. Turell¹, Ashley Butler¹, Carson Baldwin¹, Hannah Hottel¹, Christopher Mores²

¹United States Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States, ²Florida Medical Entomology Laboratory, Vero Beach, FL, United States

126

DEMONSTRATION OF RNA RECOMBINATION IN JAPANESE ENCEPHALITIS VIRUS

Ching-Kai Chuang, **Wei-June Chen**

Chang Gung University, Tao-Yuan, Taiwan

127

ENZYME-LINKED IMMUNOSORBENT ASSAY USING CROSS-REACTIVITY REDUCED VIRUS-LIKE PARTICLES TO DETECT ANTIBODIES AGAINST JAPANESE ENCEPHALITIS VIRUS

Shyan-Song Chiou¹, Wayne D. Crill², Li-Kuang Chen³, Gwong-Jen. J. Chang²

¹Graduate Institute of Veterinary Public Health, National Chung Hsing University, Taichung, Taiwan, ²Arboviral Diseases Branch, Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases, Centers for Disease Control and Prevention, Public Health Service, U.S. Department of Health and Human Service, Fort Collins, CO, United States, ³College of Medicine, Tzu-Ch University, Hualien, Taiwan

128

EVALUATION OF VIRUS ISOLATION TECHNIQUES FOR JAPANESE ENCEPHALITIS

Jaimie S. Robinson, Jason O. Velez, Barbara W. Johnson

Centers for Disease Control and Prevention, Fort Collins, CO, United States

129

SEROLOGICAL EVIDENCE OF POWASSAN VIRUS TRANSMISSION IN SMALL MAMMALS COLLECTED IN RUSSIA, ALASKA AND THE WESTERN UNITED STATES

Robert A. Nofchissey¹, Joseph Cook², Diane Goade¹, Andrew Hope², Albina Tsvetkova³, Gregory D. Ebel¹

¹University of New Mexico School of Medicine, Albuquerque, NM, United States, ²Museum of Southwestern Biology, Albuquerque, NM, United States, ³Institute of Biology, Moscow, Russian Federation

130

POTENTIAL FOR INTRODUCTION AND ESTABLISHMENT OF JAPANESE ENCEPHALITIS VIRUS INTO NORTH AMERICA

Frank Mannix, Dawn W. Wesson

Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

131

DIFFERENT PATTERN OF LIVER LESIONS IN GOLDEN HAMSTERS FOR YELLOW FEVER FATAL AND NON-FATAL HUMAN ISOLATES

Livia C. Martins¹, Ana C. Cruz¹, Eliana V. da Silva¹, Marcio R. Nunes¹, Jannifer O. Chiang¹, Juarez A. Quaresma², **Pedro F. Vasconcelos**¹

¹Instituto Evandro Chagas, Belém, Brazil, ²Universidade Federal do Para, Belém, Brazil

Helminths – Nematodes – Intestinal Nematodes

132

DETERMINATION OF IMMOBILIZATION AND LETHAL DOSES (MG/ML) OF ERYNGIAL (TRANS-2-DODECENAL), USING STRONGYLOIDES STERCORALIS, HAEMONCHUS CONTORTUS, ANCYLOSTOMA CANINUM AND PARASTRONGYLOIDES TRICHOSURI INFECTIVE LARVAE IN VITRO, AND A COMPARISON OF ITS ANTHELMINTIC ACTIVITY WITH IVERMECTIN

Wayne M. Forbes¹, Ralph D. Robinson², Paul B. Reese³

¹Department of Biology, Slippery Rock University of Pennsylvania, Slippery Rock, PA, United States, ²Department of Life Sciences, The University of the West Indies (Mona), Kingston, Jamaica, ³Department of Chemistry, The University of the West Indies (Mona), Kingston, Jamaica

133

DEVELOPMENT OF DNA ASSAYS, IN SOIL-TRANSMITTED NEMATODE PARASITES OF HUMANS, FOR THE DETECTION OF SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) ASSOCIATED WITH BENZIMIDAZOLE RESISTANCE

Aissatou Diawara¹, Lesley J. Drake², Richard R. Suswillo², Don A. Bundy³, Roger K. Prichard¹

¹McGill, Montreal, QC, Canada, ²Imperial College School of Medicine, London, United Kingdom, ³World Bank, Washington DC, United States

(ACMCIP Abstract)

134

NATIONAL SEROPREVALENCE AND RISK FACTORS FOR ZOONOTIC TOXOCARA SPP. INFECTION

Kimberly Won¹, Deanna Kruszon-Moran², Peter Schantz¹, Jeffrey Jones¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Centers for Disease Control and Prevention, Hyattsville, MD, United States

135

DEVELOPMENT OF A RAPID AND SPECIFIC IMMUNODIAGNOSTIC ASSAY FOR STRONGYLOIDES INFECTION USING A LUCIFERASE IMMUNOPRECIPITATION SYSTEM

Roshan Ramanathan, Peter B. Burbelo, Michael J. Iadarola, Franklin A. Neva, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

136

PCR ASSAY FOR THE DETECTION OF ANGIOSTRONGYLUS COSTARICENSIS DNA

Maria Gabriela Solano, Steven A. Williams

Smith College, Northampton, MA, United States

(ACMCIP Abstract)

137

MODULATION OF THE INNATE AND ACQUIRED IMMUNE RESPONSE IN THE MICE REINFECTED WITH STRONGYLOIDES VENEZUELENSIS

Eleuza R. Machado¹, Daniela C. Carlos², Walter M. Turato², Elaine V. Lourenço³, Daniela I. Souza², Carlos A. Sorgi², Érika V. da Silva², Simone G. Ramos⁴, Marlene T. Ueta⁵, Lúcia H. Faccioli²

¹Department of Pathology, Tufts University School of Medicine, MA, United States, ²Departamento de Análisis Clínicas, Toxicológicas e Bromatológicas, Fac. de Ciências Farmacêuticas de Ribeirão Preto, Brazil, ³Departamento de Biologia Celular, Molecular e Bioagentes Patogênicos, Fac. de Medicina de Ribeirão Preto, Brazil, ⁴Departamento de Patologia, Fac. de Medicina de Ribeirão Preto, Brazil, ⁵Departamento de Parasitologia, Instituto de Biologia - Universidade de Campinas, Brazil

(ACMCIP Abstract)

HIV

138

HOUSING CONDITIONS AND SURVIVAL OF PEOPLE WITH HIV INFECTION IN THE DOMINICAN REPUBLIC

Michael N. Dohn, Anita L. Dohn, Luisa Reyes

Clinica Esperanza y Caridad, San Pedro de Macoris, Dominican Republic

139

THE SIX SYSTEMIC COMPONENTS FOR DEVELOPMENT AND IMPLEMENTATION OF SUCCESSFUL INTERNATIONAL PUBLIC HEALTH REGIMES

E. Asher Balkin

Ohio University, Athens, OH, United States

Kinoplastida – Molecular Biology and Immunology

140

IDENTIFICATION AND CHARACTERIZATION OF TWO 14-3-3 PROTEINS IN THE HUMAN PARASITE *TRYPANOSOMA CRUZI***Bethany A. Peel**, Joy Sturteva*Louisiana State University Health Sciences Center, New Orleans, LA, United States*

(ACMCIP Abstract)

141

ANTIGEN DISCOVERY FOR CONTROL OF VISCERAL LEISHMANIASIS**Yasuyuki Goto**, Rhea N. Coler, Sylvie Bertholet, Steven G. Reed*Infectious Disease Research Institute, Seattle, WA, United States*

(ACMCIP Abstract)

142

ROLE OF MAP KINASE ERK IN ALTERING DENDRITIC CELL MATURATION AND CELL-MEDIATED IMMUNE RESPONSE TO *LEISHMANIA AMAZONENSIS* INFECTION**Paola M. Boggiatto**, Fei Jei, Rami Mukbel, Mousumi Ghosh, Douglas E. Jones, Christine A. Petersen*Iowa State University, Ames, IA, United States*

143

THE ROLE OF B CELLS IN THE CELL-MEDIATED IMMUNE RESPONSE TO *LEISHMANIA AMAZONENSIS***Katherine N. Gibson-Corley**, Rami Mukbel, Christine Petersen, Douglas Jones*Iowa State University, Ames, IA, United States*

144

THE MAJOR SURFACE PROTEASE OF THE AMASTIGOTE STAGE OF *LEISHMANIA CHAGASI***Chia-Hung Christine Hsiao**¹, Chaoqun Yao², Patricia A. Storlie¹, John E. Donelson¹, Mary E. Wilson²¹*University of Iowa, Iowa City, IA, United States*, ²*The VA Medical Center and University of Iowa, Iowa City, IA, United States*

146

POST TRANSLATIONAL REGULATION OF MYOBLAST CYCLIN D1 BY *TRYPANOSOMA CRUZI***Boumediene Bouzahzah**¹, Vyascheslav Yurchenko¹, Fnu Nagajyothi¹, Shankar Mukherjee¹, James Hulit¹, Moshe Sadofsky¹, Vicki L. Braunstein¹, Louis M. Weiss¹, Chris Albanese², Herbert B. Tanowitz¹¹*Albert Einstein College of Medicine, Bronx, NY, United States*, ²*Georgetown University Medical Center, Washington, DC, United States*

(ACMCIP Abstract)

147

CHARACTERIZATION OF *TRYPANOSOMA BRUCEI* CA²⁺ CHANNEL: A POTENTIAL DRUG AND VACCINE TARGET IN TRYPANOSOMES**Kiantra I. Ramey**, Nana Wilson, Lucky Nwankwo, Zuzana Kucerova, Winston Thompson, Jonathan K. Stiles*Morehouse School of Medicine, Atlanta, GA, United States*

(ACMCIP Abstract)

148

THE DETERMINATION OF SPECIES AND GENOTYPES OF *LEISHMANIA* SPP. USING PCR-RFLP ASSAYS IN CLINICAL SAMPLES OF PATIENTS AND RESERVOIRS IN TURKEYKoray Gunes¹, **Seray Ozensoy Toz**¹, Hatice Ertabaklar², Sema Ertug², Yusuf Ozbel¹¹*Ege University Medical School, Izmir, Turkey*, ²*Adnan Menderes University Medical School, Aydin, Turkey*

(ACMCIP Abstract)

149

THE ROLE OF ACRIFLAVIN IN THE PROLIFERATION OR INHIBITION OF *TRYPANOSOMA MUSCULI* BY INDUCING APOPTOSIS WITH SPECIFIC BINDING AFFINITY TO KDNA OF THE PARASITE *IN VITRO* AND *IN VIVO***Dereje D. Gimite**, Mohammad Ashraf, Clarence M. Lee*Howard University, Washington, DC, United States*

(ACMCIP Abstract)

150

THE ROLE OF LIVER-X RECEPTOR (LXR) IN *LEISHMANIA CHAGASI* INFECTION IN MICE**Kevin W. Bruhn**¹, Chaitra Marathe², Thu A. Tran¹, Peter Tontonoz², Noah Craft¹¹*Los Angeles Biomedical Research Institute, Torrance, CA, United States*,²*University of California, Los Angeles, Los Angeles, CA, United States*

(ACMCIP Abstract)

151

EFFICACY OF A DNA VACCINE AGAINST *LEISHMANIA MEXICANA* IN GOLDEN HAMSTERSWilberth G. Chalé-Balboa, Juan L. Tzec-Arjona, Mirza Mut-Martin, Maria J. Ramirez-Sierra, Maria Garcia-Miss, **Eric Dumonteil***Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico*

(ACMCIP Abstract)

152

EVALUATION OF THE EFFICACY OF A COMBINATION OF DNA VACCINES ENCODING TSA-1 AND TC24 ANTIGENS IN MICE INFECTED WITH *TRYPANOSOMA CRUZI*

Juan L. Tzec-Arjona, Patricia Lopez-Lopez, Wilberth G. Chale-Balboa, Gilma Sanchez-Burgos, Maria J. Ramirez-Sierra, **Eric Dumonteil**
Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico

(ACMCIP Abstract)

153

T-CELL EPITOPE MAPPING OF MAJOR MSP-1₃₃ ALLELES IN HUMAN CORD BLOOD FROM KENYAN NEWBORNS

Indu Malhotra¹, Kevin Steiner¹, Peter Mungai¹, Alex Wamachi², Mzungu Kafwani³, Eric Muchiri³, Christopher L. King¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Nairobi, Kenya, ³Division of Vector Borne Diseases, Nairobi, Kenya

154

RNAI OF EXTRACELLULAR MATRIX GENES THAT ARE REGULATED BY *TRYPANOSOMA CRUZI* BLOCKS T. *CRUZI* INFECTION

Kaneatra J. Simmons, Pius N. Nde, M. Nia Madison, Yuliya Kleshchenko, Maria F. Lima, Fernando Villalta

Meharry Medical College, Nashville, TN, United States

(ACMCIP Abstract)

Malaria – Biology and Pathogenesis

155

THE ROLE OF OXIDATIVE STRESS AND MALARIA INFECTION ON ANAEMIA IN PREGNANCY

Olusegun M. Akanbi¹, Olusegun G. Ademowo², Alex B. Odaibo³

¹Department of Environmental Biology and Fisheries, Adekunle Ajasin University, Akungba Akoko, Ondo State, Nigeria, ²Institute for Advanced Medical Research and Training, University of Ibadan, Ibadan, Oyo State, Nigeria, ³Department of Zoology, Parasitology Unit, University of Ibadan, Ibadan, Oyo State, Nigeria

156

INDUCTION OF *PLASMODIUM* SPOROZOITE MOTILITY BY ALBUMIN IS ASSOCIATED WITH MOBILIZATION OF INTRACELLULAR CALCIUM

Chahnaz Kebaier, Jerome Vanderberg

New York University School of Medicine, New York, NY, United States

157

MAGNETIC SEPARATION: A VERY EFFECTIVE METHOD FOR THE SYNCHRONIZATION OF *PLASMODIUM FALCIPARUM* IN CULTURE

Jae-Won Park¹, Sun-Young Ahn¹, Mi-Young Shin¹, Young-A Kim¹, Ji-Ae Yoo¹, Dong-Hwan Kwak¹, Yoon-Jae Jung¹, Joon-Sup Yeom²

¹Gachon Medical School, Incheon, Republic of Korea, ²Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

(ACMCIP Abstract)

158

***PLASMODIUM FALCIPARUM* LIVER STAGE ANTIGEN-1 IS CROSSLINKED BY TISSUE TRANSGLUTAMINASE**

William S. Nicoll¹, John B. Sacchi², Carlo Rodolfo³, Giuseppina DiGiacomo³, Mauro Piacentini³, Michael R. Hollingdale⁴, **David E. Lanar**¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²University of Maryland School of Medicine, Baltimore, MD, United States,

³University of Rome Tor Vergata, Rome, Italy, ⁴National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

159

REDUCED RISK OF *P. VIVAX* AND *P. MALARIAE* INFECTIONS ASSOCIATED WITH BAND 3 DELETION IN PAPUA NEW GUINEAN CHILDREN

Ivo Mueller¹, Enmoore Lin¹, Jennifer Cole-Tobian², Danielle Stanicic³, Elijah Dabod¹, John C. Reeder¹, Christopher C. King², Peter A. Zimmerman², Pascal Michon¹

¹PNG Institute of Medical Research, Goroka, Papua New Guinea, ²Centre of Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States, ³Walter & Eliza Hall Institute, Melbourne, Australia

160

INTEGRATING QUANTITATIVE TRAIT LOCI (QTL) WITH WHOLE-GENOME DATA TO IDENTIFY CANDIDATE GENES CONTROLLING GROWTH TRAITS IN *PLASMODIUM FALCIPARUM*

Heather B. Reilly, Mark A. Wacker, Asako Tan, Joseph M. Gonzales, Michael T. Ferdig

University of Notre Dame, Notre Dame, IN, United States

161

MULTI-FACETED IMPACT OF MSP-1P42 SPECIFIC ANTIBODIES ON BLOOD STAGES OF *P. FALCIPARUM*

Elke S. Bergmann-Leitner, Elizabeth H. Duncan, Evelina Angov

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

162

IDENTIFICATION OF A NOVEL FAMILY OF VARIANT SURFACE ANTIGENS IN *PLASMODIUM FALCIPARUM*

Amanda K. Lukens¹, Daniel E. Neafsey², Stephen F. Schaffner², David DeCaprio², Sarah K. Volkman¹, Padis C. Sabeti², Danny A. Milner¹, Johanna P. Daily¹, Ousmane Sarr³, Daouda Ndiaye³, Omar Ndir³, Soulyemane Mboup³, Danny Park², Roger C. Wiegand², Bruce W. Birren², James E. Galagan², Eric S. Lander², Dyann F. Wirth¹

¹Harvard School of Public Health, Boston, MA, United States, ²The Broad Institute of Harvard and MIT, Cambridge, MA, United States, ³Faculty of Medicine and Pharmacy, Cheikh Anta Diop University, Dakar, Senegal

³Faculty of Medicine and Pharmacy, Cheikh Anta Diop University, Dakar, Senegal

(ACMCIP Abstract)

163

VARIANT MEROZOITE PROTEIN EXPRESSION IS ASSOCIATED WITH ERYTHROCYTE INVASION PHENOTYPES IN *PLASMODIUM FALCIPARUM* ISOLATES FROM TANZANIA

Amy K. Bei¹, Christopher D. Membi², Julian C. Rayner³, Marycelina Mubi², Billy Ngasala², Ali A. Sultan⁴, Zul Premji², Manoj T. Duraisingh¹

¹Harvard School of Public Health, Boston, MA, United States, ²Muhimbili University College of Health Sciences, Dar es Salaam, United Republic of Tanzania, ³University of Alabama at Birmingham, Birmingham, AL, United States, ⁴Weill Cornell Medical College in Qatar, Doha, Qatar

(ACMCIP Abstract)

164

STATINS ENHANCE HOST INFLAMMATORY RESPONSES TO *PLASMODIUM FALCIPARUM* GPI IN VITRO AND DYSREGULATE INNATE RESPONSE TO BLOOD STAGE INFECTION IN VIVO

Andrew Helmers, W. Conrad Liles, Kevin C. Kain

McLaughlin-Rotman Centre for Global Health, University of Toronto, Toronto, ON, Canada

(ACMCIP Abstract)

Malaria – Drug Development

165

***P. FALCIPARUM* HISTONE DEACETYLASES: ENZYMES INVOLVED IN GENE REGULATION AS NEW ANTIMALARIAL DRUG TARGETS**

Kathy T. Andrews¹, Thanh N. Tran², Andrew Lucke³, Pia Kahnberg³, GT Lee³, Tina Skinner-Adams³, Donald L. Gardiner¹, David P. Fairlie³

¹Queensland Institute of Medical Research, Herston, Queensland, Australia,

²Queensland Institute of Medical Research and Griffith University, Herston, Queensland, Australia, ³University of Queensland, St. Lucia, Queensland, Australia

166

POTENT ANTIMALARIAL ACTIVITY OF THE A/T-SPECIFIC ALKYLATING AGENT AS-I-145 AGAINST *PLASMODIUM IN VITRO* AND *IN VIVO*

Stephanie K. Yanow¹, Lisa A. Purcell², Ana Rodriguez³, Moses Lee⁴, Terry W. Spithill²

¹Provincial Laboratory for Public Health (Microbiology), Edmonton, AB, Canada, ²McGill University, Montreal, QC, Canada, ³New York University School of Medicine, New York, NY, United States, ⁴Hope College, Holland, MI, United States

167

PHARMACOKINETIC COMPARISON OF ARTESUNATE (AS) FOLLOWING MULTIPLE INTRAVENOUS INJECTIONS IN THE *P. BERGHEI* INFECTED AND UNINFECTED RATS

Qigui Li, Lisa Xie, Jing Zhang, Peter Weina

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

168

PHARMACOKINETIC PROFILES OF INJECTABLE ARTESUNATE (AS) IN THE PREGNANT AND NON-PREGNANT RATS IN RELATION TO ITS EMBRYOTOXICITY

Qigui Li, Yuanzheng Si, Kirsten Smith, Qiang Zeng, Peter Weina
Walter Reed Army Institute of Research, Silver Spring, MD, United States

169

EFFICACY, TOXICITY AND THERAPEUTIC INDICES OF ARTESUNATE (AS) AND DIHYDROARTEMISININ (DHA) IN *P. BERGHEI* INFECTED AND UNINFECTED RATS

Lisa Xie, Qigui Li, Jing Zhang, Peter Weina

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

170

EFFICACY EVALUATIONS OF 13 METABOLITES OF ARTESUNATE IN CULTURE WITH VARIOUS CLONES AND ISOLATES OF *P. FALCIPARUM*

Jing Zhang, Lisa Xie, Lucia Gerena, Peter Weina, Qigui Li

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

171

ISOLATED MITOCHONDRIA FROM *P. FALCIPARUM* WITH CYTOCHROME B MUTATIONS PRESENT AN ALTERED SENSITIVITY TO ANTIMALARIAL 4-(1H)-PYRIDONES

Francisco-Javier Gamo, Laura Sanz, Maria-Jose Lafuente, Alfonso Mendoza, Cristina De-Cozar, Ane Rodriguez, Jose-Luis Llergo, Eva Lopez, Federico Gomez-de-las-Heras, Jose-Francisco Garcia-Bustos
GlaxoSmithKline, Diseases of the Developing World, Tres Cantos (Madrid), Spain

172

2-STAGE FRACTIONAL FACTORIAL DESIGN TO INVESTIGATE FACTORS INFLUENCING THE EFFICACY OF PAFURAMIDINE MALEATE FOR THE TREATMENT OF UNCOMPLICATED *P. FALCIPARUM* MALARIA

Jeffrey D. Isaacson

Webbwrites, Batavia, IL, United States

173

PRE-CLINICAL MONKEY TOXICITY STUDY OF JPC-2056-I, A THIRD GENERATION ANTIFOLATE

Guy A. Schiehser¹, Jacek Terpinski¹, Arba L. Ager², Alan J. Magill³, Wil K. Milhous³, Colin Ohrt³, David L. Saunders³, Dennis E. Kyle⁴, Michael D. Edstein⁵, Karl H. Rieckmann⁵, G. Dennis Shanks⁵, Carol H. Sibley⁶, Craig J. Canfield⁷, Laura R. Jacobus¹, David P. Jacobus¹

¹Jacobus Pharmaceutical Co., Inc., Princeton, NJ, United States, ²University of Miami School of Medicine, Miami, FL, United States, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴University of South Florida, Tampa, FL, United States, ⁵Australian Army Malaria Institute, Enoggera, Queensland, Australia, ⁶University of Washington, Seattle, WA, United States, ⁷Pharmaceutical Systems, Inc., Talent, OR, United States

174

PRE-CLINICAL MOUSE TOXICITY STUDY OF JPC-2056-I, A THIRD GENERATION ANTIFOLATE ANTIMALARIAL

Guy A. Schiehsler¹, Jacek Terpinski¹, Arba L. Ager², Alan J. Magill³, Wil K. Milhous³, Colin Ohrt³, David L. Saunders³, Dennis E. Kyle⁴, Michael D. Edstein⁵, Karl H. Rieckmann⁵, G. Dennis Shanks⁵, Carol H. Sibley⁶, Craig J. Canfield⁷, Laura R. Jacobus¹, David P. Jacobus¹

¹Jacobus Pharmaceutical Co., Inc., Princeton, NJ, United States, ²University of Miami School of Medicine, Miami, FL, United States, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴University of South Florida, Tampa, FL, United States, ⁵Australian Army Malaria Institute, Enoggera, Queensland, Australia, ⁶University of Washington, Seattle, WA, United States, ⁷Pharmaceutical Systems, Inc., Talent, OR, United States

Malaria - Epidemiology

175

MALARIA CONTROL IN THE MUNICIPALITY OF SAN ESTEBAN, HONDURAS, CENTRAL AMERICA

Christine E. Bell¹, Stanley O. Foster¹, Laurence Slutsker², Raymond Beach², German Jimenez³, Maria Sarmiento⁴

¹Rollins School of Public Health, Emory University, Atlanta, GA, United States, ²Centers for Disease Control and Prevention/CCID/NCZVED, Atlanta, GA, United States, ³Honduras Outreach Inc., San Esteban, Honduras, ⁴Municipal Health Promoter, San Esteban, Honduras

176

CONGENITAL PLASMODIUM FALCIPARUM INFECTION IN NEONATES IN MUHEZA DISTRICT, TANZANIA

Grace W. Mwangoka

Ifakara Health Research and Development Centre, Dar es salaam, United Republic of Tanzania

(ACMCIP Abstract)

177

MALARIA PARASITE PREVALENCE IN THE ARTIBONITE VALLEY OF HAITI DURING THE RAINY SEASON, 2006

Thomas P. Eisele¹, Joe Keating¹, Adam Bennett¹, Berlin Londono¹, Dawn Johnson², Christina Lafontant², Donald J. Krogstad¹

¹Tulane University, New Orleans, LA, United States, ²Hopital Albert Schweitzer, Deschapelles, Haiti

178

FACTORS ASSOCIATED WITH THE PROVISION OF APPROPRIATE ANTIMALARIAL THERAPY FOR CHILDREN UNDER FIVE IN NIGERIA

Gloria E. Oramasionwu, William Brieger

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

179

PREVALENCE OF MALARIA AT BOOKING AMONG ANTENATAL PATIENTS IN A SECONDARY HEALTH CARE FACILITY IN IBADAN, NIGERIA

Catherine O. Falade¹, Oladapo Olayemi², Hannah O. Dada-Adegbola³, Christopher O. Aimaku², Olusegun G. Ademowo⁴, Lateef A. Salako¹

¹Department of Pharmacology and Therapeutics, College of Medicine, University of Ibadan, Ibadan, Nigeria, ²Department of Obstetrics and

Gynaecology, College of Medicine, University of Ibadan, Ibadan, Nigeria, ³Department of Medical Microbiology, College of Medicine, University of Ibadan, Ibadan, Nigeria, ⁴IMRAT, College of Medicine, University of Ibadan, Ibadan, Nigeria

180

ASSOCIATION OF MALARIA INFECTION WITH MOTOR AND LANGUAGE DEVELOPMENT AMONG PRESCHOOL CHILDREN IN ZANZIBAR

Anna Minta¹, Rebecca J. Stoltzfus², Hababu Chwaya³, Marco Albonico⁴, James Tielsch¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Cornell University, Ithaca, NY, United States, ³United Nations Children's Fund, Zanzibar, United Republic of Tanzania, ⁴Ivo de Carneri Foundation, Milan, Italy

181

MULTIPLEX EVALUATION OF SINGLE NUCLEOTIDE POLYMORPHISMS TO DIFFERENTIATE BETWEEN NEW AND RECRUESCENT INFECTIONS IN CLINICAL TRIALS OF ANTIMALARIAL DRUGS AGAINST *PLASMODIUM FALCIPARUM*

Jeana T. DaRe¹, John Heintz¹, Drew Kouri¹, Peter Thomas¹, Harin Karunajeewa², Tim Davis², Enmoore Lin³, Ivo Mueller³, Peter A. Zimmerman¹

¹Case Western Reserve University, Cleveland, OH, United States, ²University of Western Australia, Crawley, Australia, ³Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

182

SEASONAL VARIATIONS IN PLASMODIUM SPECIES. CASE STUDY OF A RURAL PERIPHERAL HOSPITAL FROM CENTRAL INDIA

Neeru Singh¹, Puspendra Pal Singh¹, Ajay Saxena¹, Mrigendra Pal Singh¹, R.G. Chaurasia², A.P. Dash³

¹National Institute of Malaria Research Field Station, Indian Council of Medical Research (ICMR), Jabalpur, India, ²Civil Hospital Maihar, Satna, Madhya Pradesh, India, ³National Institute of Malaria Research, Indian Council of Medical Research (ICMR), Delhi, India

183

MALARIA IN FOREST VILLAGES OF MANDLA AND DINDORI DISTRICTS IN CENTRAL INDIA (MADHYA PRADESH)

Gyan Chand¹, Nutan Nanda², Mrigendra Pal Singh³, Aditya Prasad Dash², Neeru Singh³

¹Regional Medical Research Center for Tribal (ICMR), Jabalpur, India, ²National Institute of Malaria Research, Indian Council of Medical Research (ICMR), Delhi, India, ³National Institute of Malaria Research Field Station, Indian Council of Medical Research (ICMR), Jabalpur, India

184

MALARIA RELATED KNOWLEDGE, PERCEPTIONS, AND PRACTICES IN THE ARTIBONITE VALLEY OF HAITI

Joseph Keating¹, Thom Eisele¹, Adam Bennett¹, Dawn Johnson², Christina Lafontant², Kate Macintyre¹

¹Tulane University, New Orleans, LA, United States, ²Hopital Albert Schweitzer, Deschapelles, Haiti

185

SIMULATION OF MALARIA TRANSMISSION AMONG HOUSEHOLDS IN A THAILAND VILLAGE USING REMOTELY SENSED PARAMETERS

Richard Kiang¹, Farida Adimi¹, Gabriela Zollner², Russell Coleman²
¹NASA Goddard Space Flight Center, Greenbelt, MD, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

186

MALARIA KNOWLEDGE, ATTITUDE AND PRACTICES AND PREVALENCE OF ANOPHELES IN THE FOREST OF REGION OF GUINEA, WEST AFRICA

Frederique A. Jacquerioz¹, Camille Edwards¹, Emily Jentes¹, James Wallace¹, Noumouny Sacko², Karfalla Kourouma², Jean Sagno², Mamadi Coulibaly², Dawn Wesson¹, Daniel G. Bausch¹

¹Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²International Center for Research on Tropical Infections in Guinea, N'Zérékoré, Guinea

187

HIGH PREVALENCE OF ASYMPTOMATIC MALARIA INFECTIONS IN THE PAPUA NEW GUINEA DEFENCE FORCE

Edwin Siu¹, Andrew Ebringer², Joanne Baker², Alyson Auliff², Gideon Kendino³, John Staley², Derek Davis², Nanhua Chen², Robin Gregory², Karl Rieckmann², Ken Lilley², G. Dennis Shanks², Qin Cheng², Michael T. O'Neil⁴

¹The University of Queensland, Brisbane, Queensland, Australia, ²Australian Army Malaria Institute, Enoggera, Queensland, Australia, ³The Papua New Guinea Defence Force, Port Moresby, Papua New Guinea, ⁴Walter Reed Army Institute of Research, Silver Spring, MD, United States

Malaria - Immunology

188

SPECIFIC PLASMODIUM ELIMINATION DURING A SECOND INFECTION IN CBA/CA MICE

Martha Legorreta-Herrera, Adriana Ramos-Avila, Jannete R. Rodríguez-López, Marcela Ulloa-Martínez, Osvaldo D. Castelan-Martínez
 FES Zaragoza, Universidad Nacional Autónoma de México, Distrito Federal, México

(ACMCIP Abstract)

189

ROLE OF COMPLEMENT AND COMPLEMENT REGULATORY PROTEINS IN SEVERE ANEMIA CAUSED BY PLASMODIUM CHABAUDI

Juliana V. Harris, Catherine N. Stracener, José A. Stoute
 Uniformed Services University of the Health Sciences, Bethesda, MD, United States

190

FCγ RECEPTOR POLYMORPHISMS IN GHANAIAI CHILDREN WITH CLINICAL MALARIA

Anastasia R. Ocran
 Noguchi Memorial Institute for Medical Research, Accra, Ghana

191

IMMUNOEPIDEMIOLOGY OF PVRII, A PUTATIVE VACCINE CANDIDATE REPRESENTING PLASMODIUM VIVAX DUFFY BINDING PROTEIN, IN SRI LANKA

Prasad H. Premaratne¹, Sajani Dias¹, Shiroma M. Handunnetti², Syed S. Yazdani³, Chetan E. Chitnis³, Preethi V. Randeniya¹

¹Department of Zoology, University of Colombo, Sri Lanka, Colombo, Sri Lanka, ²Malaria Research Unit, University of Colombo, Sri Lanka, Colombo, Sri Lanka, ³International Centre for Genetic Engineering and Biotechnology, New Delhi, India

(ACMCIP Abstract)

192

INTERFERON GAMMA RESPONSE TO A T-CELL EPITOPE OF P. FALCIPARUM GLUTAMATE RICH PROTEIN (GLURP) CORRELATES WITH PROTECTION FROM CLINICAL MALARIA IN GHANAIAI CHILDREN

Helena Nartey¹, Michael Ofori¹, Kwadwo Koram², Bartholomew D. Akanmori¹, Dominic Edoh³, Ed Remarque⁴, Daniel Dodoo¹, Michael Theisen⁵

¹Noguchi Memorial Institute for Medical Research, Immunology Department, University of Ghana, Accra, Ghana, ²Noguchi Memorial Institute for Medical Research, Epidemiology Department, University of Ghana, Legon, Accra, Ghana, ³Zoology Department, University of Ghana, Legon, Accra, Ghana, ⁴Biomedical Primate Research Centre, Netherlands, Netherlands Antilles, ⁵Department of Infectious Disease Immunology, State Serum Institute, Denmark, Denmark

193

T CELL RESPONSES TO MODIFIED PLASMODIUM FALCIPARUM MSP1₁₉ ANTIGENS IN PEOPLE PREVIOUSLY EXPOSED TO NATURAL MALARIA INFECTION

Christian M. Okafor¹, Chairat Uthaiipibull², Chiaka I. Anumudu³, Yusuf O. Omosun⁴, Idowu Ayede⁵, Henrietta O. Awobode³, Alexander B. Odaibo³, Jean Langhorne⁶, Anthony Holder⁶, Marita Troye-Blomberg⁷, Mark Nwagwu³, Roseangela I. Nwuba³

¹Seattle Biomedical Research Institute, Seattle, WA, United States, ²Biotec, Bangkok, Thailand, ³Cellular Parasitology Programme, University of Ibadan, Ibadan, Nigeria, ⁴Bells University, Ota, Nigeria, ⁵Oni Memorial Hospital, Ibadan, Nigeria, ⁶National Institute of Medical Research, NIMR, London, United Kingdom, ⁷Wenner-Gren Institute, Stockholm University, Stockholm, Sweden

(ACMCIP Abstract)

194

ANTIBODY RESPONSES TO THE MSP-1 COMPLEX PROTEINS IN CEREBRAL MALARIA PATIENTS IN INDIA

Naomi W. Lucchi¹, Jon Eric Tongren¹, Vidhan Jain², Avinash C. Nagpal³, Christian W. Kauth⁴, Ute Woehlbier⁴, Hermann Bujard⁴, Aditya P. Dash⁵, Jonathan K. Stiles⁶, Neeru Singh², Venkatachalam Udhayakumar¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²National Institute of Malaria Research, Regional Medicine Research Center for Tribals, Indian Council of Medical Research, Jabalpur, India, ³Nethaji Subash Chandra Bose Medical College, Jabalpur, India, ⁴Center of Molecular Biology, Heidelberg University, Heidelberg, Germany, ⁵National Institute of Malaria Research, Indian Council of Medical Research, New Delhi, India, ⁶Morehouse School of Medicine, Atlanta, GA, United States

(ACMCIP Abstract)

195

NATURAL RESISTANCE AGAINST SEVERE MALARIA IN GHANAIAN CHILDREN DEPENDS ON TOLL-LIKE RECEPTORS

John K. A. Tetteh¹, Bamele Q. Goka², George Obeng-Adjei², Catherine Jacquemot¹, Fredrick N. Gyang³, Charlotte Behr⁴, Bartholomew D. Akanmori¹

¹Immunology Department, Noguchi Memorial Institute for Medical Research, Accra, Ghana, ²Department of Child Health, Korle-Bu Teaching Hospital, Accra, Ghana, ³Biochemistry Department, University of Ghana, Accra, Ghana, ⁴Unité d'Immunologie Moléculaire des Parasites, Institut of Pasteur, Paris, France

196

MALARIA DEFERRED BLOOD DONATIONS: ARE THEY REALLY A THREAT?

Megan Nguyen¹, Tami Goff², Joan Gibble², David Leiby¹

¹American Red Cross, Rockville, MD, United States, ²American Red Cross, Baltimore, MD, United States

(ACMCIP Abstract)

197

IMMUNOREGULATION IN MILD AND SEVERE *P. FALCIPARUM* MALARIA

Michael Walther¹, Natalia Gomez-Escobar¹, Susanne Deininger¹, Joseph Okebe¹, Olivia Finney¹, Davis Nwakanma¹, Eleanor Riley², David Conway¹

¹MRC Laboratories Fajara, Banjul, Gambia, ²London School of Hygiene & Tropical Medicine, London, United Kingdom

(ACMCIP Abstract)

198

CLINICAL AND IMMUNOLOGICAL MARKERS FOR THE PROGNOSIS OF MALARIA IN GHANAIAN CHILDREN

William Ekloh¹, Bamele Q. Goka², George Obeng-Adjei², John K. A. Tetteh³, Sammy T. Sackey⁴, Charlotte Behr⁵, Bartholomew D. Akanmori³

¹University of Cape Coast, Immunology Department, Noguchi Memorial Institute for Medical Research, Cape Coast, Accra, Ghana, ²Department of Child Health, Korle-Bu Teaching Hospital, Accra, Ghana, ³Immunology Department, Noguchi Memorial Institute for Medical Research, Legon, Accra, Ghana, ⁴Biochemistry Department, University of Ghana, Legon, Accra, Ghana, ⁵Unité d'Immunologie Moléculaire des Parasites, Institut of Pasteur, Paris, France

199

B CELL ACTIVITY IN CHILDREN WITH SEVERE MALARIAL ANEMIA

Jackson C. Korir¹, Ronald P. Taylor², John N. Waitumbi¹

¹Walter Reed Project/KEMRI, Kisumu, Kenya, ²Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine, Charlottesville, VA, United States

(ACMCIP Abstract)

200

CALCITONIN GENE POLYMORPHISM (-624 T/C) IS ASSOCIATED WITH SUSCEPTIBILITY TO MALARIAL ANEMIA IN INFANTS AND YOUNG CHILDREN

Collins Ouma¹, Gordon Awandare², Tom Were¹, Richard Otieno¹, Gregory Davenport², Michael Otieno³, Alloys Orago³, John Vulule⁴, John Michael Ong'echa¹, Robert Ferrell², Douglas Perkins²

¹University of Pittsburgh/KEMRI, Kisumu, Kenya, ²University of Pittsburgh, Pittsburgh, PA, United States, ³Kenyatta University, Nairobi, Kenya, ⁴KEMRI, Kisumu, Kenya

(ACMCIP Abstract)

Malaria – Molecular Biology

201

GENETIC DIVERSITY IN MSP-1 GENE OF *PLASMODIUM FALCIPARUM* IN AN ENDEMIC AREA OF CENTRAL INDIA

Praveen K. Bharti¹, Md. Tauqeer Alam², M.M. Shukla¹, Y.D. Sharma², Neeru Singh¹

¹National Institute of Malaria Research, Jabalpur, India, ²Department of Biotechnology, All India Institute of Medical Science, New Delhi, India

(ACMCIP Abstract)

202

TOWARDS *PLASMODIUM VIVAX* ANTIGENIC GENES HAPMAP OF INDIAN ISOLATES

Surendra K. Prajapati¹, Ramie H. Begum¹, Mushahid A. Rizvi², Aditya P. Dash¹, Hema Joshi¹

¹National Institute of Malaria Research, New Delhi, India, ²Jamia Millia Islamia University, New Delhi, India

(ACMCIP Abstract)

203

GENETIC DIVERSITY ASSOCIATED WITH VACCINE CANDIDATE ANTIGENS IN *PLASMODIUM FALCIPARUM* AND *P. VIVAX* ISOLATES FROM THE AMAZON REGION OF PERU

Stella M. Chenet¹, David J. Bacon¹, Ananias A. Escalante², Oralee H. Branch³

¹US Naval Medical Research Center Detachment, Lima, Peru, ²Arizona State University, Tempe, AZ, United States, ³University of Alabama at Birmingham, Birmingham, AL, United States

204

A SNP-BASED MOLECULAR BARCODE FOR *P. FALCIPARUM* IDENTIFICATION AND TRACKING

Rachel Daniels¹, Sarah K. Volkman², Dan Milner², Danny Park¹, Ousmane Sarr³, Daouda Ndiaye³, Dyann F. Wirth², Roger C. Wiegand¹

¹Broad Institute of Harvard and MIT, Cambridge, MA, United States, ²Harvard School of Public Health, Boston, MA, United States, ³Cheikh Anta Diop University, Dakar, Senegal

205

THE IMPACT OF DISSOCIATION ON TRANSPOSON-MEDIATED DISEASE CONTROL STRATEGIES

John M. Marshall, Tom Chou

University of California at Los Angeles, Los Angeles, CA, United States

(ACMCIP Abstract)

206

HIGH GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* AND LOW COMPLEXITY OF INFECTION IN THE PERUVIAN AMAZON

Richard C. Delgado¹, Dionicia Gamboa¹, Katherine Torres¹, Tanilu Grande¹, Alejandro Llanos¹, Cesar Carcamo², Umberto D'Alessandro³

¹Institute of Tropical Medicine "Alexander von Humboldt" – Universidad Peruana Cayetano Heredia, Lima, Peru, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Prince Leopold Institut of Tropical Medicine, Antwerp-Belgium, Belgium

(ACMCIP Abstract)

207

PREVALENCE AND MOLECULAR BASIS OF α -THALASSAEMIA IN A MALARIA ENDEMIC REGION OF VIETNAM

N.Q. Nguyen¹, S.P. O'Riordan¹, QT Cao¹, MT Dao¹, TL Le², QA Do², K. Miles³, A. Allen³, TH Vu¹, HP Nguyen⁴, QH Nguyen⁵, SJ Dunstan¹, TE Peto⁶, TH Tran⁴, JJ Farrar¹, JB Clegg³, DJ Weatherall³

¹Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ²Phuoc Long District Health Centre, Phuoc Long District, Binh Phuoc Province, Vietnam, ³The Molecular Haematology Division, Weatherall Institute of Molecular Medicine, Oxford, United Kingdom, ⁴Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ⁵The Institute of Malariology, Parasitology and Entomology, Ho Chi Minh City, Vietnam, ⁶The Nuffield Department of Medicine, Oxford University, Oxford, United Kingdom

(ACMCIP Abstract)

208

DISRUPTION OF 2-CYS PEROXIREDOXIN TPX-1 GENE IN *PLASMODIUM BERGHEI* HINDERS THE SPOOROZOITE DEVELOPMENT

Shin-ichiro Kawazu¹, Kazuhiko Yano², Hitoshi Otsuki³, Meiji Arai⁴, Kanako Komaki-Yasuda², Takafumi Tsuboi⁵, Motomi Torii³, Shigeyuki Kano²

¹National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Hokkaido, Japan, ²Research Institute, International Medical Center of Japan, Tokyo, Japan, ³Department of Molecular Parasitology, Ehime University School of Medicine, Ehime, Japan, ⁴Department of Parasitology and Tropical Public Health, School of Medicine, University of Occupational and Environmental Health, Kitakyusyu, Japan, ⁵Cell-Free Science and Technology Research Center, Ehime University, Ehime, Japan

209

TRACING THE ORIGIN, MOLECULAR IDENTITY AND GENETIC DIVERSITY OF THE *PLASMODIUM FALCIPARUM* FCR3/GAMBIA FAMILY

Thavamani Rajapandi, Jianbing Mu, Xinzhuan Su, Timothy Stedman

MR4/IATCC, Manassas, VA, United States

210

INVASION PHENOTYPES AND TRANSCRIPT PROFILES IN GAMBIAN *PLASMODIUM FALCIPARUM* CLINICAL ISOLATES

Natalia Gomez-Escobar, Michael Walther, Alfred A. Ngwa, Joseph Okebe, Davis Nwakanma, David Conway

MRC Laboratories, Banjul, Gambia

(ACMCIP Abstract)

211

INVESTIGATION ON THE RELATIONSHIP BETWEEN ERYTHROCYTE BINDING ANTIGEN 175 (EBA 175) GENOTYPES OF *PLASMODIUM FALCIPARUM* AND CLINICAL MALARIA IN A HYPERENDEMIC AREA OF GHANA

Beverly Egyir¹, Ruth Ayanful¹, Charles Brown¹, Michael D. Wilson¹, Kwadwo Koram²

¹Parasitology Department, Noguchi Memorial Institute for Medical Research, Accra, Ghana, ²Epidemiology Department, Noguchi Memorial Institute for Medical Research, Accra, Ghana

(ACMCIP Abstract)

Malaria - Vaccines

212

COCCIDIOSIS CONTROL IN POULTRY WITH VACCINES OF FIELD ISOLATES AS A MODEL OF EFFICACY, SUSTAINABILITY AND AFFORDABILITY FOR THE CONTROL OF MALARIA

Eng-Hong Lee

Vetech Laboratories Inc., Guelph, ON, Canada

213

PHASE 1 SAFETY AND IMMUNOGENICITY TRIAL OF BLOOD-STAGE MALARIA VACCINES MSP₁₄₂-C1/ALYDROGEL WITH AND WITHOUT THE ADDITION OF CPG 7909 IN US ADULTS

Laura B. Martin¹, Donna Shaffer², Ruth D. Ellis¹, Carole A. Long¹, Kazutoyo Miura¹, David L. Narum¹, Daming Zhu¹, Gregory E. Mullen¹, Siddhartha Mahanty¹, Elissa Malkin¹, Louis H. Miller¹, Allan Saul¹, Anna P. Durbin²

¹Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ²Center for Immunization Research, Johns Hopkins School of Public Health, Washington, DC, United States

214

ANTIBODY-INDUCED PHAGOCYTOSIS OF *P. FALCIPARUM* MEROZOITES BY NEUTROPHIL MEASURED WITH CHEMILUMINESCENCE OXIDATIVE BURSTS AS A RELEVANT FUNCTIONAL ASSAY FOR CORRELATE OF PROTECTION AND MSP VACCINE DEVELOPMENT

Ronald Perraut¹, Charlotte Joos², Laurence Marrama¹, Hannah E. J. Polson³, Sandra Corre², Adama Tall², Cheikh A. Sokhna⁴, Alioune Dieye², Shirley Longacre³

¹Institut Pasteur Guadeloupe, Abymes, Guadeloupe, ²Institut Pasteur Dakar, Dakar, Senegal, ³Institut Pasteur, Paris, France, ⁴IRD, Dakar, Senegal

(ACMCIP Abstract)

215

EVALUATION OF IMMUNOGLOBULIN PURIFICATION METHODS AND THEIR EFFECTS ON IGS ANTIBODY SPECIFICITY

Ryan Mease¹, Elizabeth H. Duncan¹, John Waitumbi², Elke Bergmann-Leitner¹, Evelina Angov¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²Kenya Medical Research Institute, Kisumu, Kenya

216

PLANS FOR CLINICAL TRIALS OF A METABOLICALLY ACTIVE, NON-REPLICATING *PLASMODIUM FALCIPARUM* SPOOROZITE VACCINE

Judith E. Epstein¹, Kirsten E. Lyke², Laurence Lemiale³, Maria S. Reyes¹, David Regis¹, Francis Williams¹, Jose Mendoza-Silveiras¹, Falgunee Parekh¹, Kim Lee Sim⁴, Robert Edelman², Thomas L. Richie¹, Stephen L. Hoffman⁵

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Center for Vaccine Development, University of Maryland, Baltimore, MD, United States, ³PATH Malaria Vaccine Initiative, Bethesda, MD, United States, ⁴Protein Potential LLC, Rockville, MD, United States, ⁵Sanaria Inc., Rockville, MD, United States

217

DEVELOPMENT AND OPTIMIZATION OF A *PLASMODIUM FALCIPARUM* INHIBITION OF SPOOROZITE INVASION (ISI) ASSAY

Brent L. House¹, Xiaoyan Zou¹, Joao C. Aguiar¹, Patricia De La Vega², Thomas L. Richie¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

218

PRE-CLINICAL EVALUATION OF SAFETY AND IMMUNOGENICITY OF *PLASMODIUM FALCIPARUM* LSA1/AS01B WHEN ADMINISTERED SEPARATELY OR CONCURRENTLY WITH RTS,S/AS01B IN RHESUS PRIMATES

Sathit Pichyangkul¹, Utaiwan Kum-Arb¹, Kosol Yongvanitchit¹, Amporn Limsalakpetch¹, Monthip Gettayacamin¹, David E. Lanar², Lisa A. Ware², V. A. Stewart², D. Gray Heppner², Pascal Mettens³, Joe D. Cohen³, W. R. Ballou³, Mark M. Fukuda¹

¹United States Army Medical Component-Armed Forces Research Institute of the Medical Sciences, Bangkok, Thailand, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³GlaxoSmithKline, Biologicals, Rixensart, Belgium

219

DETECTING ANTIBODY FINE SPECIFICITIES TO *P. FALCIPARUM* MSP1 SUBUNITS BY PARTICLE BASED FLOW CYTOMETRY IN NAÏVE AND MALARIA EXPERIENCED POPULATIONS VACCINATED WITH FMP1/AS02A

Michael McCasland¹, Afiya Brent-Kirk¹, Lorraine Soisson², José A. Stoute¹, Christian F. Ockenhouse¹, John Waitumbi³, Bernhards Ogutu³, Evelina Angov¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²United States Agency for International Development, Washington, DC,

³Kenya Medical Research Institute, Kisumu, Kenya

220

MINIATURIZED HIGH THROUGHPUT PLDH-BASED *PLASMODIUM FALCIPARUM* GROWTH INHIBITION ASSAY FOR LOW VOLUME SAMPLES

Elke S. Bergmann-Leitner, Elizabeth H. Duncan, Michele D. Spring, Evelina Angov

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

221

HELMINTHIASIS AS A CONFOUNDING FACTOR IN HIV AND MALARIA VACCINE TRIALS

Miles B. Markus

University of Witwatersrand, Johannesburg, South Africa

(ACMCIP Abstract)

222

EXPRESSION OF MSP3-MSP1 CHIMERIC PROTEIN AND EVALUATION OF ITS IMMUNOGENICITY USING HUMAN COMPATIBLE ADJUVANTS

Suman Mazumdar¹, Asif Mohammed¹, Syed S. Yazdani¹, S. K. Jain², Virander S. Chauhan¹

¹International Centre for Genetic Engineering and Biotechnology, New Delhi, India, ²Jamia Hamdard, New Delhi, India

Malaria – Vector Biology and Malaria Transmission

223

OWNERSHIP AND USAGE OF ITNS IN NIGER AFTER DISTRIBUTION DURING A NATIONWIDE INTEGRATED CAMPAIGN

Julie I. Thwing¹, Jodi Vanden Eng¹, Marcel Lama²

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²World Health Organization, Harare, Zimbabwe

224

DICHLORODIPHENYLTRICHLOROETHANE (DDT) FOR INDOOR RESIDUAL SPRAYING IN AFRICA: HOW CAN IT BE USED FOR MALARIA CONTROL?

Yesim Tozan¹, Shobha Sadasivaiah², Joel G. Breman³

¹Earth Institute, Columbia University, New York, New York; Fogarty International Center, National Institutes of Health, Bethesda, MD, United States, ²Weill Cornell Medical College of Cornell University, Cornell University, New York, New York; Fogarty International Center, National Institutes of Health, Bethesda, MD, United States, ³Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

225

EXPRESSION OF WARP, A PUTATIVE TARGET FOR TRANSMISSION BLOCKING VACCINES, DURING *PLASMODIUM GALLINACEUM* SEXUAL DEVELOPMENT

Armando M. Neto

FIOCRUZ/Instituto René Rachou, Belo Horizonte, Brazil

(ACMCIP Abstract)

226

DEVELOPMENT OF *PLASMODIUM FALCIPARUM* IN *CULEX* MOSQUITOES

Jen Hume, Tovi Lehmann

National Institutes of Health/National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

227

COMMUNITY-BASED SURVEILLANCE OF MALARIA VECTORS IN DAR ES SALAAM, TANZANIAProsper Chaki¹, Nicodem Govella¹, Yvonne Geissbühler², Deo Mtasiwa³, Marcel Tanner², Steven Lindsay⁴, Khadija Kannady⁵, Marcia Castro⁶, Ulrike Fillingner⁴, Gerry Killeen¹¹Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ²Swiss Tropical Institute, Basel, Switzerland, ³Dar es Salaam City Council, Dar es Salaam, United Republic of Tanzania, ⁴Durham University, Durham, United Kingdom, ⁵Dar es Salaam Urban Malaria Control Programme, Dar es Salaam, United Republic of Tanzania, ⁶Harvard University, Boston, MA, United States

228

COST-EFFECTIVENESS OF ADDING BEDNET DISTRIBUTION FOR MALARIA PREVENTION TO ANTENATAL CLINICSSylvia I. Becker-Dreps¹, Andrea K. Biddle¹, Audrey E. Pettifor¹, Gertrude Musumba², David Nku Imbie³, Steven R. Meshnick¹, Frieda Behets¹¹University of North Carolina, Chapel Hill, NC, United States, ²School of Public Health, Kinshasa, Democratic Republic of the Congo, ³Salvation Army, Kinshasa, Democratic Republic of the Congo

229

COMPARISON OF A SIMPLE CHELEX PROCEDURE AGAINST STANDARD SALT PROTOCOL FOR DNA EXTRACTION FROM WILD ANOPHELES SPP.Musapa Mulenga¹, Mtawa Mkulama¹, Sandra Chishimba¹, Petrica Rouse², Douglas Norris², Philip E. Thuma¹, Sungano Mharakurwa¹¹The Malaria Institute at Macha, Choma, Zambia, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States**Mosquitoes – Biochemistry and Molecular Biology**

230

MULTIPLE INSECTICIDE RESISTANCE MECHANISMS IN *ANOPHELES GAMBIAE* AND *CULEX QUINQUEFASCIATUS* FROM BENIN (WEST AFRICA) AND OPERATIONAL CHALLENGE FOR MALARIA VECTOR CONTROLVincent Corbel¹, Raphael N'Guessan², Cécile Brengues¹, Fabrice Chandre³, Luc Djogbenou⁴, Thibaud Martin³, Martin Akogbeto⁴, Jean-Marc Hougard³, Mark Rowland²¹IRD, Montpellier, France, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³IRD, Cotonou, Benin, ⁴CREC, Cotonou, Benin

231

ANNOTATION AND EXPRESSION PROFILING OF PRESUMPTIVE APOPTOSIS REGULATORY GENES IN THE YELLOW FEVER MOSQUITO, *AEDES AEGYPTI*Bart Bryant¹, Carol D. Blair², Ken E. Olson², Rollie Clem¹¹Molecular, Cellular, and Developmental Biology Program, Arthropod Genomics Center, Division of Biology, Kansas State University, Manhattan, KS, United States, ²Arthropod-Borne and Infectious Diseases Laboratory, Department of Microbiology, Immunology, and Pathology, Colorado State University, Fort Collins, CO, United States

232

PREVALENCE OF INSECTICIDE RESISTANCE IN POPULATIONS OF THE DENGUE VECTOR *AEDES AEGYPTI* IN THAILANDShavanthi Rajatileka¹, William C. Black IV², Yuwadee Trongtorkit³, Audrey Lenhart¹, Chamnarn Apiwathnasorn³, Pradhya Somboon⁴, Philip McCall¹, Hilary Ranson¹¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Department of Microbiology, Pathology and Immunology, Colorado State University, Fort Collins, CO, United States, ³Department of Medical Entomology, Faculty of Tropical Medicine, University of Mahidol, Bangkok, Thailand, ⁴Department of Parasitology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

233

RNA INTERFERENCE OF THE INSULIN RECEPTOR IN *CULEX PIPIENS* ARRESTS OVARIAN DEVELOPMENT AND SIMULATE DIA-PAUSE

Cheolho Sim, David L. Denlinger

Department of Entomology, Ohio State University, Columbus, OH, United States

234

TRANSLATIONAL REGULATION OF EARLY TRYPSIN SYNTHESIS BY TARGET OF RAPAMYCIN IN THE MOSQUITO *AEDES AEGYPTI*

Michelle C. Brandon, James E. Pennington, Anne-Sophie Schillinger, Roger L. Miesfeld

University of Arizona, Tucson, AZ, United States

235

FUNCTIONAL CHARACTERIZATION OF THE *AEDES AEGYPTI* CARBOXYPEPTIDASE GENE FAMILY

Jun Isoe, Anisha Menezes, Michael A. Wells, Roger L. Miesfeld

University of Arizona, Tucson, AZ, United States

236

ADULT *AEDES AEGYPTI* MOSQUITOES CAN SYNTHESIZE UREA USING AN AMPHIBIAN URIC ACID DEGRADATION PATHWAY

Patricia Y. Scaraffia, Guanhong Tang, Jun Isoe, Vicki H. Wysocki, Michael A. Wells, Roger L. Miesfeld

University of Arizona, Tucson, AZ, United States

237

TRANSGENIC EXPRESSION OF A VARIANT BEE VENOM PHOSPHOLIPASE A₂ IN *Aedes fluviatilis* MOSQUITOES TOWARDS *Plasmodium gallinaceum* DEVELOPMENT**Flávia G. Rodrigues***Centro de Pesquisas René Rachou - CPqRR - FIOCRUZ, Belo Horizonte - MG, Brazil*

238

ANTIBODY RESPONSE AGAINST SALIVA ANTIGENS FROM MALARIA AND ARBOVIRUS VECTORS IN TRAVELERS IN TROPICAL AFRICA**Lionel Almeras¹**, Eve Orlandi-Pradines¹, Laure Denis de Senneville¹, Franck Remoué², Claude Villard³, Kristell Penhoat¹, Catherine Bourgoïn⁴, Didier Fontenille⁵, Frederic Pagés¹, Bruno Pradines¹, Thierry Fusaï¹, Christophe Rogier¹¹Institut de Médecine Tropicale du Service de Santé des Armées, Marseille-Armées, France, ²Institut de Recherche pour le développement (IRD), UR24 Epidémiologie et Prévention Unit, Centre IRD de Hann, Dakar, Senegal, ³Faculté de Pharmacie, Marseille, France, ⁴Ecologie des Systèmes Vectoriels, Institut Pasteur, Paris, France, ⁵Institut de Recherche pour le développement (IRD), UR16 caractérisation et contrôle des populations de vecteurs Unit, Centre IRD, Montpellier, France

239

IDENTIFICATION OF CDNAS ASSOCIATED WITH MEIOTIC DRIVE IN *Aedes aegypti***Dongyoung Shin**, Lizhong Jin, David W. Severson*Global Health and Infectious Diseases, Notre Dame, IN, United States*

240

REMOBILIZATION OF PIGGYBAC IN *Anopheles gambiae***Barbara F. Ngudiankama**, Robert A. Harrell, Chana Aluvihare, Dave A. O'Brochta*University of Maryland Biotechnology Institute, Rockville, MD, United States*

241

FIRST REPORT OF *ACE-1* MUTATION IN *Anopheles arabiensis* POPULATIONS FROM BURKINA FASO (WEST AFRICA)**Kounbobr R. Dabiré***Centre Muraz/IRSS, Bobo-Dioulasso, Burkina Faso*

242

THE ROLE OF THE INSULIN SIGNALING CASCADE AND THE TGF-BETA SIGNALING PATHWAY IN ANTI-PARASITE DEFENSE IN *Anopheles gambiae***Ashley A. Horton**, Cheick Coulibaly, Susan House, Shirley Luckhart*University of California Davis, Davis, CA, United States*

243

THE STAT PATHWAY LIMITS PLASMODIUM INFECTION IN *An. gambiae***Carolina Barillas-Mury**, Lalita Gupta, Alvaro Molina-Cruz, Sanjeev Kumar*National Institutes of Health, Rockville, MD, United States*

244

OLFACTORY RESPONSIVENESS TO THE HOST ATTRACTANT CARBON DIOXIDE IN DIAPAUSING AND NONDIAPAUSING ADULTS OF *Culex pipiens***Rebecca M. Robich**, Alan J. Grant, Richard J. Pollack, Andrew Spielman*Harvard School of Public Health, Boston, MA, United States***Mosquitoes – Vector Biology**

245

MONITORING ITN EFFICACY AND INSECTICIDE RESISTANCE IN MALARIA VECTORS IN TANZANIA**Manisha A. Kulkarni***HealthBridge, Ottawa, ON, Canada*

246

HABITAT-BASED LARVAL INTERVENTIONS: A NEW PERSPECTIVE FOR MALARIA CONTROL**Weidong Gu¹**, Jürg Utzinger², Robert Novak¹¹University of Alabama at Birmingham, Birmingham, AL, United States,²Swiss Tropical Institute, Basel, Switzerland

247

DYNAMICS OF INTERPLAY BETWEEN *Aedes aegypti* SALIVA PROTEINS AND HOST IMMUNE RESPONSES**Saravanan Thangamani**, Prafulla K. Chandra, Bronwen E. Lambson, Stephen K. Wikel*University of Connecticut Health Center, Farmington, CT, United States*

(ACMCIP Abstract)

248

DIVERSITY OF CULICINE MOSQUITOES (DIPTERA: CULICIDAE) IN AN AFRICAN RICE AGROSYSTEM, MWEA-KENYA**Josephat I. Shililu¹**, Ephantus J. Muturi², Joseph M. Mwangangi³, Benjamin Jacob², Charles M. Mbogo³, Weidong Gu², John I. Githure¹, Robert J. Novak²¹ICIPE, Nairobi, Kenya, ²UAB, Birmingham, AL, United States, ³KEMRI, Kilifi, Kenya

249

POTENTIAL INCRIMINATION OF *Anopheles (Nyssorhynchus) albimanus* AND *An. (Kerteszia) neivai* AS MALARIA VECTORS IN THE PACIFIC REGION OF COLOMBIALina A. Gutiérrez¹, Liliana Cordoba¹, Nelson Naranjo¹, Carlos Muskus², Shirley Luckhart³, Jan E. Conn⁴, **Margarita M. Correa¹**¹Grupo Microbiología Molecular, Escuela de Microbiología, Universidad de Antioquia, Medellín, Colombia, ²Programa de Estudio y Control de Enfermedades Tropicales-PECET, Fac de Medicina, Universidad de Antioquia, Medellín, Colombia, ³Department of Medical Microbiology and Immunology, University of California, Davis, CA, United States, ⁴Griffin Laboratory, Wadsworth Center, New York State Department of Health, Albany, NY, United States

250

EFFICACY OF CDC LIGHT TRAP SAMPLING TO MONITOR THE HOST-SEEKING BEHAVIOR OF ANOPHELES ARABIENSIS IN SOUTHERN ZAMBIA**Christen M. Fornadel**¹, Rebekah J. Kent², Douglas E. Norris¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States

251

HUMAN TGF- β 1 REGULATION OF THE ANTI-MALARIAL RESPONSE IN MOSQUITOES**Win Surachetpong**, Naresh Singh, Shirley Luckhart

University of California Davis, Davis, CA, United States

(ACMCIP Abstract)

252

LOCATION, LOCATION, LOCATION — DISTANCES OF BREEDING WATER TO HUMAN HABITATIONS ARE AN IMPORTANT INDICATOR FOR DESIGNING TARGETED INTERVENTIONS OF HABITAT MANAGEMENT**Weidong Gu**, Robert Novak

Department of Medicine, University of Alabama, Birmingham, Birmingham, AL, United States

253

THE ROLE OF FLIGHT TONE CHARACTERISTICS ON MATE SELECTION OF THE YELLOW FEVER MOSQUITO *Aedes Aegypti***Lauren J. Cator**

Cornell University, Ithaca, NY, United States

254

COMPARATIVE RESPONSE OF MOSQUITOES TO INSECTICIDAL TOXIC BAITS**Sandra A. Allan**

USDA/ARS/CMAVE, Gainesville, FL, United States

Mosquitoes – Vector Biology - Epidemiology

256

SPATIAL EXPLORATION OF HUMAN WNV DISEASE INCIDENCE IN THE NORTHEASTERN UNITED STATES**Heidi E. Brown**, James Childs, Maria A. Diuk-Wasser, Durland Fish

Yale University, New Haven, CT, United States

257

REGIONAL COMPARISONS OF THE HOST FEEDING PATTERNS OF MAJOR VECTORS OF WEST NILE AND EASTERN EQUINE ENCEPHALITIS VIRUSES IN THE U.S.**Goudarz Molaei**, Theodore G. Andreadis, Philip M. Armstrong

The Connecticut Agricultural Experiment Station, New Haven, CT, United States

258

RISK FACTORS FOR HOUSE-ENTRY BY MALARIA VECTORS IN A RURAL TOWN AND SATELLITE VILLAGES IN THE GAMBIA**Matt Kirby**, Steve W. Lindsay

University of Durham, Durham City, United Kingdom

259

EVALUATION OF THE RELATIONSHIPS BETWEEN HUMAN ACTIVITIES AND CONTAINER BREEDING *Aedes* IN URBAN WEST AFRICA USING A GEOGRAPHIC SAMPLING STRATEGY**Emily S. Jentes**¹, Joseph Keating¹, Christopher Swalm¹, Camille Edwards¹, Frederique Jacquerioz¹, Noumouny Sacko², Kerfallah Kourouma², Jean Sagno², Janet Rice¹, Mamadi Coulibaly², Dawn Wesson¹, Daniel G. Bausch¹¹Tulane University, New Orleans, LA, United States, ²International Center for Research on Tropical Infections in Guinea, N'Zérékoré, Guinea

260

CHARACTERIZING SPECIES DIVERSITY OF VECTORS IMPLICATED IN NON-TRADITIONAL EEE TRANSMISSION IN TENNESSEE**Sudeshna Mukherjee**¹, Beth Huddleston¹, Erin Moody², Kenneth Lewockzo², Ron Wilson³, John Dunn¹, Tim F. Jones¹, Abelardo C. Moncayo¹¹Tennessee Department of Health, Nashville, TN, United States, ²Union University, Jackson, TN, United States, ³Tennessee Department of Agriculture, Nashville, TN, United States

261

PARTICIPATORY MAPPING OF TARGET AREAS TO ENABLE OPERATIONAL LARVAL SOURCE MANAGEMENT TO SUPPRESS MALARIA VECTOR MOSQUITOES IN DAR ES SALAAM, TANZANIA**Stefan Dongus**¹, Dickson Nyika², Khadija Kannady³, Deo Mtasiwa³, Hassan Mshinda², Ulrike Fillinger⁴, Axel W. Drescher⁵, Marcel Tanner¹, Marcia C. Castro⁶, Gerry F. Killeen⁴¹Swiss Tropical Institute, Basel, Switzerland, ²Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ³City Medical Office of Health, Dar es Salaam, United Republic of Tanzania, ⁴Durham University, Institute of Ecosystems Science, Durham, United Kingdom, ⁵University of Freiburg, Department of Physical Geography, Freiburg, Germany, ⁶Harvard School of Public Health, Boston, MA, United States

262

UNDERSTANDING THE SPATIAL AND TEMPORAL DISTRIBUTION OF POTENTIAL MOSQUITO VECTORS OF RIFT VALLEY FEVER IN THE U.S.**Seth C. Britch**, Kenneth J. Linthicum

USDA-ARS/CMAVE, Gainesville, FL, United States

263

ISOLATIONS OF JAMESTOWN CANYON VIRUS (BUNYAVIRIDAE: ORTHOBUNYAVIRUS) FROM FIELD-COLLECTED MOSQUITOES (DIPTERA: CULICIDAE) IN CONNECTICUT, USA: A TEN-YEAR ANALYSIS, 1997-2006**Theodore G. Andreadis**, John F. Anderson, Philip M. Armstrong

The Connecticut Agricultural Experiment Station, New Haven, CT, United States

264

THE USE OF EMPIRICAL MODE DECOMPOSITION FOR THE STUDY OF THE TRANSMISSION OF DENGUE HEMORRHAGIC FEVER IN THAILAND

Arthur Getis¹, Jared Aldstadt², Kristopher Kuzera¹, Thomas W. Scott³

¹San Diego State University, San Diego, CA, United States, ²University at Buffalo, Buffalo, NY, United States, ³University of California, Davis, Davis, CA, United States

265

A NEW CLIMATE BASED MODEL FOR FORECASTING WEST NILE MOSQUITO VECTOR POPULATION ABUNDANCE AND HUMAN RISK

Laura C. Harrington, Hongfei Gong, Arthur DeGaetano
Cornell University, Ithaca, NY, United States

Protozoa – Ameba/Giardia

266

GIARDIA DOG GENOTYPES IN URBAN SETTINGS OF PERU AND THE UNITED STATES: ZONOTIC TRANSMISSION POTENTIAL?

Nina Castro¹, Margarethe Cooper¹, Kathryn Lancaster¹, Kathryn Miller¹, Vitaliano Cama², Robert Gilman³, Charles Sterling¹

¹University of Arizona, Tucson, AZ, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

267

MOLECULAR, BIOCHEMICAL AND PATHOLOGIC CHARACTERIZATION OF ACANTHAMOEBA CASTELLANI IRON- SUPEROXIDE DISMUTASE (FE-SOD)

Jung-Yeon Kim¹, Mi-Hyun Park¹, Byung-Kook Na², Hae-Won Yang¹, Jung-Won Ju¹, Hyeng-Il Cheun¹, Pyo-Yeon Cho¹, Young-Hee Lee¹, Tong-Soo Kim¹

¹Division of Malaria and Parasitic Diseases, National Institute of Health, KCDC, Seoul, Republic of Korea, ²Kyungsang University, Jin-ju, Republic of Korea

268

USE OF MULTIPLEX REAL-TIME PCR TO IMPROVE THE DETECTION OF GIARDIA LAMBLIA AND CRYPTOSPORIDIUM PARVUM IN HUMAN FAECAL SAMPLES

Wayne Melrose¹, Karen Johnson², Graeme Nimmo³

¹James Cook University, Townsville, Australia, ²Princess Alexandra Hospital, Brisbane, Australia, ³University of Queensland, Townsville, Australia

(ACMCIP Abstract)

269

ANTIPARASITIC EVALUATION OF HYBRIDS OF BENZIMIDAZOLE DERIVATIVES AND 2-AMINO-5-NITROTHIAZOLE

Francisco Hernández-Luis¹, Cecilia Padierna-Mota¹, Alicia Hernández-Campos¹, Rafael Castillo¹, Benjamina Noguera-Torres², Adrián Márquez-Navarro², Gustavo Erasmo Ruiz-Espinoza², Israel Velazquez-Martínez¹, Lilián Yépez-Mulia³

¹Departamento de Farmacia, Facultad de Química, Universidad Nacional Autónoma de México, México D.F., Mexico, ²Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional, México D.F., Mexico, ³Unidad de Investigación Médica en Enfermedades Infecciosas y Parasitarias, Centro Médico Nacional IMSS-Siglo XXI, México D.F., Mexico

270

SYNTHESIS AND ANTIPROTOZOAL ACTIVITY OF NOVEL 1-METHYLBENZIMIDAZOLE DERIVATIVES

Rafael Castillo¹, Sergio Rodríguez-Morales¹, David Valdez-Padilla¹, Alicia Hernández-Campos¹, Francisco Hernández-Luis¹, Lilián Yépez-Mulia²

¹Universidad Nacional Autónoma de México, México, D.F., Mexico, ²Unidad de Investigaciones Médicas y Parasitarias, IMSS, Mexico, D.F., Mexico

271

INACTIVATION EFFECT AND MOLECULAR DOCKING STUDIES OF BENZIMIDAZOLE DERIVATIVES AGAINST TRIOSEPHOSPHATE ISOMERASE FROM ENTAMOEBA HISTOLYTICA AND CORRELATION WITH IN VITRO ACTIVITY

Fabian Lopez-Vallejo¹, José Luis Medina-Franco¹, Alicia Hernández-Campos¹, Sergio Rodríguez-Morales¹, Luis Tellez¹, Lilián Yépez-Mulia², D. Alejandro Fernández-Velasco¹, Rafael Castillo¹

¹Universidad Nacional Autónoma de México, Ciudad de México, Mexico, ²Unidad de Investigación Médica en Enfermedades Infecciosas y Parasitarias, Centro Médico Nacional Siglo XXI, IMSS, Ciudad de México, Mexico

272

ANTIPROTOZOAL ACTIVITY OF NOVEL BENZIMIDAZOLE DERIVATIVES

Maria A. Hernández-Campos¹, Sonia Aguilar-González¹, Lilián Yépez-Mulia², Francisco Hernández-Luis¹, Rafael Castillo¹

¹Universidad Nacional Autónoma de México, Ciudad de México, Mexico, ²Unidad de Investigación Médica en Enfermedades Infecciosas y Parasitarias, Centro Médico Nacional Siglo XXI, IMSS, Ciudad de México, Mexico

273

PROTEOMICAL EVALUATION OF NOVEL GIARDICIDAL BENZIMIDAZOLE DERIVATIVES

Javier R. Ambrosio¹, Carlos A. Mendez-Cuesta¹, Maria A. Dea-Ayuela², Olivia A. Reynoso-Ducoin¹, Liliana Velázquez-Márquez¹, Rafael Castillo-Bocanegra¹, Francisco Hernández-Luis¹, Alicia Hernández-Campos¹, Lilián Yépez-Mulia³, Francisco Bolás-Fernández²

¹Universidad Nacional Autónoma de México, Mexico City, Mexico, ²Universidad Complutense de Madrid, School of Pharmacy, Spain, ³Instituto Mexicano del Seguro Social CMN Siglo XXI, UIMEIP, Hosp. Ped., Mexico

(ACMCIP Abstract)

Viruses - Other

274

MONITORING MICROARRAY-BASED GENE EXPRESSION PROFILE CHANGES IN VACCINIA VIRUS

Irshad M. Sulaiman¹, Robin Scarborough², Keith Levert¹, John Osborne², Nikhat Sulaiman¹, Dhvani Govil¹, Kevin Tang², Scott Sammons², Brian Holloway², Joseph Esposito², Robert Wohlhueter²

¹Centers for Disease Control and Prevention/CCID/INCPDCID/DSR/BCFB/Atlanta Research and Education Foundation, Atlanta, GA, United States, ²Centers for Disease Control and Prevention/CCID/INCPDCID/DSR/BCFB, Atlanta, GA, United States

275

IDENTIFICATION OF NON POLIO ENTEROVIRUSES ISOLATED FROM SELECTED AFP STOOL SAMPLES IN THE GHANA POLIO REGIONAL REFERENCE LABORATORY: IMPLICATION FOR CAUSATIVE AGENTS TO AFP OTHER THAN POLIO

Miriam A. Sagoe, Jacob S. Barnor

Noguchi Memorial Institute for Medical Research, Accra, Ghana

276

QUANTITATIVE PCR ASSAY FOR THE DETECTION AND DIFFERENTIATION OF MONKEYPOX VIRUS FROM OTHER ORTHOPOXVIRUSES

David N. Shahan, Sydney Lee

ATCC/BEI Resources, Manassas, VA, United States

(ACMCIP Abstract)

277

ELEVATED TESTOSTERONE AND REDUCED 5-HIAA CONCENTRATIONS ARE ASSOCIATED WITH WOUNDING AND HANTAVIRUS INFECTION IN MALE NORWAY RATS

Judith Easterbrook¹, Jenifer Kaplan¹, Gregory Glass¹, Mikhail Pletnikov², Sabra Klein¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins University School of Medicine, Baltimore, MD, United States

278

COMMON MARMOSETS (CALLITHRIX JACCHUS) AS A NON-HUMAN PRIMATE MODEL FOR EASTERN EQUINE ENCEPHALITIS

A.P. Adams¹, N.C. Arrigo¹, J.F. Aronson¹, S.D. Tardif², J.L. Patterson³, K.M. Brasky², C.E. Johnson³, M. de la Garza², R. Carrion, Jr.³, S.C. Weaver¹

¹Department of Pathology, University of Texas Medical Branch, Galveston, TX, United States, ²Southwest National Primate Research Center, Southwest Foundation for Biomedical Research, San Antonio, TX, United States, ³Department of Virology and Immunology, Southwest Foundation for Biomedical Research, San Antonio, TX, United States

279

RECOMBINANT SINDBIS VIRUSES THAT REGULATE APOPTOSIS IN THE C6/36 Aedes albopictus CELL LINE

Hua Wang¹, Carol D. Blair², Ken E. Olson², Rollie J. Clem¹

¹Molecular, Cellular, and Developmental Biology Program, Arthropod Genomics Center, Division of Biology, Kansas State University, Manhattan,

KS, United States, ²Arthropod-Borne and Infectious Diseases Laboratory, Department of Microbiology, Immunology, and Pathology, Colorado State University, Fort Collins, CO, United States

280

THE CARRIER RATE OF NEWCASTLE DISEASE VIRUS IN PIGEONS IN OWERRI AREA OF IMO STATE, NIGERIA

Alex D. Acholonu¹, A. U. Apar²

¹Alcorn State University, Alcorn State, MS, United States, ²Imo State University, Owerri, Nigeria

281

NIPAH OUTBREAK WITH PERSON-TO-PERSON TRANSMISSION IN BANGLADESH, 2007

Nusrat Homira¹, Mahmudur Rahman², M. J. Hossain¹, Imtiaz A. Chowdhury², Rebeca Sultana¹, Rasheda Khan¹, Be-Nazir Ahmed², Shakila Banu¹, Kamrun Nahar², Goutam Poddar¹, Emily Gurley¹, James A. Comer³, Pierre E. Rollin³, Paul Rota³, Thomas G. Ksiazek³, Stephen Luby¹

¹ICDDRDB, Dhaka, Bangladesh, ²Institute for Epidemiology Disease Control and Research, Dhaka, Bangladesh, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

282

GENETIC RELATIONSHIPS OF JAMESTOWN CANYON VIRUSES INFECTING CONNECTICUT MOSQUITOES

Philip M. Armstrong, Theodore G. Andreadis

The Connecticut Agricultural Experiment Station, New Haven, CT, United States

283

IMMUNOLOGICAL RESPONSE AND PROVIRAL LOAD AS FACTORS INFLUENCING DISEASE EXPRESSION IN HTLV-1

Edgar M. Carvalho, Marcia C. Nascimento, Neviton Castro, Andre Luiz A. Muniz, Amelia R. de Jesus, Aurelia F. Porto, Isadora Siqueira, Silvana B. Santos

Federal University of Bahia, Salvador, Brazil

Trematodes - Other

284

REFERENCE AND DEVELOPMENTALLY EXPRESSED GENES OF CLONORCHIS SINENSIS QUANTIFIED BY REAL-TIME PCR

Won Gi Yoo¹, Tae Im Kim¹, Shunyu Li¹, Sung-Jong Hong¹, Pyo Yun Cho², Tong Soo Kim²

¹Chung-Ang University, Seoul, Republic of Korea, ²NIH Korea, Seoul, Republic of Korea

285

RELATIONSHIP OF SPECIFIC FIBRINOGEN-RELATED PROTEINS TO ACQUIRED RESISTANCE IN THE SNAIL BIOMPHALARIA GLABRATA

Barbara A. Stout, Si-Ming Zhang, Coen M. Adema, Eric S. Loker

University of New Mexico, Albuquerque, NM, United States

(ACMCIP Abstract)

Trematodes - Schistosomiasis

286

RNA SILENCING IN SCHISTOSOMA MANSONI

Mariana Simoes¹, Appolinaire Djikeng², Gustavo Cerqueira³, Philip LoVerde⁴, Guilherme Oliveira¹, Najib El-Sayed⁵

¹Fundacao Oswaldo Cruz, Centro de pesquisas Rene Rachou, Belo Horizonte, Brazil, ²The Institute for Genomic Research, Rockville, MD, United States, ³Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ⁴Southwest Foundation for Biomedical Research, San Antonio, TX, United States, ⁵University of Maryland, College Park, MD, United States

287

GENE EXPRESSIONAL CHANGES DURING THE SCHISTOSOMA JAPONICUM LIFECYCLE

Geoffrey Gobert

Queensland Institute of Medical Research, Brisbane, Australia

(ACMCIP Abstract)

288

CHARACTERIZATION OF A P-GLYCOPROTEIN HOMOLOG IN SCHISTOSOMA MANSONI

Shanta M. Messerli, William Morgan, Stefani Spranger, Robert M. Greenberg

Marine Biological Laboratory, Woods Hole, MA, United States

289

TRANSGENESIS OF SCHISTOSOMA MANSONI MEDIATED BY MURINE LEUKEMIA VIRUS

Kristine J. Kines¹, Maria E. Morales¹, Victoria H. Mann¹, Geoffrey N. Gobert², Paul J. Brindley¹

¹Tulane University, New Orleans, LA, United States, ²Queensland Institute of Medical Research, Brisbane, Australia

(ACMCIP Abstract)

290

A CLUSTER-RANDOMISED BOVINE INTERVENTION TRIAL AGAINST S. JAPONICUM IN THE PEOPLES' REPUBLIC OF CHINA

Darren J. Gray¹, Gail M. Williams¹, Yuesheng Li², Honggen Chen³, Robert S. Li¹, Simon J. Forsyth¹, Adrian G. Barnett¹, Jiagang Guo⁴, Zheng Feng⁴, Donald P. McManus²

¹School of Population Health, The University of Queensland, Brisbane, Australia, ²Australian Centre for International and Tropical Health and Nutrition, The University of Queensland and The Queensland Institute of Medical Research, Brisbane, Australia, ³Jiangxi Provincial Institute of Parasitic Diseases, Nanchang, China, ⁴Institute of Parasitic Diseases, Chinese Centre for Disease Control and Prevention, Shanghai, China

291

AN OUTBREAK OF SCHISTOSOMIASIS MANSONICA: IMMUNOLOGICAL STATUS OF ACUTE AND INTESTINAL CASES IN AN ENDEMIC REGION OF BRAZIL

Elizabeth C. Moreno¹, Lucia A. Fraga², Luiz Cosme Cotta Malaquias², Claudia Carvalho-Queiroz³, Denise Lemos⁴, Andrea Teixeira⁴, Olindo A. Martins-Filho⁴, Rodrigo Correa-Oliveira⁴, Philip LoVerde³, Giovanni Gazzinelli⁴

¹Fundação Nacional de Saúde, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil, ²Universidade Vale do Rio Doce, Gov. Valadares, Minas Gerais, Brazil, ³University of New York at Buffalo, Buffalo, NY, United States, ⁴Centro de Pesquisas Rene Rachou, Belo Horizonte, Minas Gerais, Brazil

292

NOVEL DRUGS FOR SCHISTOSOMIASIS: ESTABLISHMENT OF A MEDIUM-THROUGHPUT WHOLE-ORGANISM SCREEN AT UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO

Conor R. Caffrey¹, Debbie S. Ruelas¹, Maha-Hamadien Abdulla¹, K.C. Lim¹, Brian Wolff², Adam Renslo², Janice Williams², James H. McKerrow¹

¹Sandler Center for Basic Research in Parasitic Diseases, University of California at San Francisco, CA, United States, ²Small Molecule Discovery Center, University of California at San Francisco, CA, United States

293

CYTOKINE EXPRESSION AND IMMUNOGLOBULIN ISOTYPE PRODUCTION IN PRE-PATENT SCHISTOSOMA MANSONI INFECTION

Lucia A. Fraga¹, Anna Tocheva², Erika Lamb², Mazen Makarem², Connor R. Caffrey³, Stephen S. Davies²

¹Uniformed Services University of the Health Sciences, Universidade Vale do Rio Doce, SESMG-DRS-GV, Gov. Valadares, Minas Gerais, Brazil, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ³University of California San Francisco, San Francisco, CA, United States

294

COMPARATIVE ANALYZE BIOMPHALARIA AMAZONICA AND B. COUSINI IN RELATION TO OTHER SPECIES OF THE GENUS, USING MORPHOLOGICAL AND MOLECULAR DATA

Tatiana M. Teodoro, Roberta L. Caldeira, Omar S. Carvalho
Centro de Pesquisas René Rachou/Fiocruz, Belo Horizonte, MG, Brazil

(ACMCIP Abstract)

295

MOLECULAR AND BIOCHEMICAL CHARACTERIZATION OF SCHISTOSOMA MANSONI PKA: A POTENTIAL NEW DRUG TARGET

Brett E. Swierczewski, Stephen Davies

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

(ACMCIP Abstract)

296

PREPARATION OF NOVEL VACCINE CANDIDATES AGAINST *SCHISTOSOMA MANSONI*

Erica Waite¹, Rachel Curwen², Gary Dillon³, Alan Wilson², Tom Kariuki⁴, Ronald Blanton¹, Christopher L King¹

¹Case Western Reserve University, Cleveland, OH, United States, ²University of York, Heslington, United Kingdom, ³University of York, Heslington, United Kingdom, ⁴Institute of Primate Research, Karen, Kenya

297

INVESTIGATING THE SOURCE OF IL-10 EARLY IN SCHISTOSOMIASIS INFECTION

Christine E. Banfield, Stephen J. Davies

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

298

PROTEOMIC ANALYSIS OF EXCRETORY-SECRETORY PROTEINS RELEASED DURING *IN VITRO* *SCHISTOSOMA MANSONI* MIRACIDIUM-TO-SPORO-CYST TRANSFORMATION

Xiao-Jun Wu, James F. Brown, Mengzi Zhang, Timothy P. Yoshino

University of Wisconsin-Madison, Madison, WI, United States

(ACMCIP Abstract)

299

ANTI-TREMATODE PARASITE RESPONSES OF THE SNAIL *BIOMPHALARIA GLABRATA*: ARCHITECTURE OF *FREP* LOCI

Cheng Man Lun, Teresa M. Madrid, Ben Hanelt, Coenraad M. Adema

University of New Mexico, Albuquerque, NM, United States

(ACMCIP Abstract)

Poster Session A ACMCIP Abstracts – Molecular, Cellular and Immunoparasitology

57, 61, 69, 133, 136, 137, 140, 141, 145, 146, 147, 148, 149, 150, 151, 152, 154, 157, 158, 162, 163, 164, 176, 188, 191, 193, 194, 196, 197, 199, 200, 201, 22, 25, 26, 27, 210, 211, 214, 221, 225, 247, 251, 266, 268, 273, 276, 285, 287, 289, 294, 295, 298, 299

Mid-Day Session 27

Migrants to North America: Optimizing the Health of High-Risk Migrants

Salon AB

Monday, November 5, 2007 12:15 p.m. - 1:15 p.m.

Refugees to North America represent a population with potential for significant tropical diseases. This session will review risks for recent refugee groups to the United States and Canada, including screening prior to travel and on after arrival. Pre-treatment strategies for common tropical diseases and a novel approach at control of endemic diseases in source countries of migrants will be presented.

CHAIR

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

12:15 p.m.

REFUGEE HEALTH IN THE UNITED STATES: RECENT EPIDEMIOLOGY AND STRATEGIES FOR OPTIMIZING HEALTH

David Boulware

University of Minnesota, Minneapolis, MN, United States

12:35 p.m.

WHAT'S UP NORTH? CANADIAN CLINICAL PREVENTIVE HEALTH CARE GUIDELINES FOR NEWLY ARRIVING IMMIGRANTS AND REFUGEES

Christina A. Greenaway

SMBD Jewish General Hospital, Montreal, QC, Canada

12:55 p.m.

HOW DO MIGRATION AND INTERNATIONAL TRAVEL IMPACT ON HEALTH?

Mary E. Wilson

Harvard University, Washington, DC, United States

Mid-Day Session 28

Chronic Conditions Don't Take Vacations: How to Prepare Travelers with Chronic Conditions

Salon CD

Monday, November 5, 2007 12:15 p.m. - 1:15 p.m.

This symposium will address chronic conditions in travelers. Over 99 million people have chronic conditions such as diabetes, hypertension and heart disease. Many of these people will be traveling for business and/or pleasure and need to adapt to time zones, different diets and physical activities. The baby boomers are also getting older and traveling in great numbers. The speakers will discuss strategies to prepare the traveler with one or more chronic conditions.

CHAIR

Pamela Allweiss

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

Christie Reed

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

12:15 p.m.

A LITTLE SUGAR GOES A LONG WAY: TRAVELLING WITH DIABETES

Pamela Allweiss

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

12:40 p.m.

CHRONIC CONDITIONS DON'T TAKE VACATIONS: HOW TO PREPARE PEOPLE WITH CHRONIC CONDITIONS FOR TRAVEL

Christie Reed

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

Detailed Program

1:05 p.m.

QUESTION AND ANSWER PERIOD

Mid-Day Session 29

Career Pathways in Global Health

Salon H

Monday, November 5, 2007 12:15 p.m. - 1:15 p.m.

Financial investment in global health is expanding rapidly, both from public and private sectors. With this expansion, career opportunities in global health are growing commensurately. Many of these career opportunities offer a challenging mix of science, epidemiology and program development opportunities, based both in the United States and internationally. Many of these career pathways are in organizations and settings that have not been a focus of ASTMH members or constituencies, yet would naturally value the perspectives and competencies of many students and trainees affiliated with the Society. This session will bring together representative leaders and spokespersons who have had varied careers in global health to speak review their perspectives on career opportunities and share ideas on preparation and entry into these pathways. The moderators will summarize the key points and action steps, to enhance the society support for global health careers.

A light lunch will be provided.

CHAIR

Sarah Volkman

Harvard School of Public Health, Boston, MA, United States

Carlos C. (Kent) Campbell

PATH Malaria Control and Evaluation Partnership in Africa (MACEPA),
Seattle, WA, United States

12:15 p.m.

THE NGO WORLD AND GLOBAL HEALTH

Scott Jackson

Vice-President for External Relations

PATH, Seattle, WA, United States

12:20 p.m.

CAREERS IN THE UNITED NATIONS SYSTEM

Melanie Renshaw

Senior Health Advisor (Malaria)

UNICEF, New York, NY, United States

12:25 p.m.

ACADEMIC MEDICINE BRIDGING TO TRAINING AND MEDICAL RESEARCH GLOBALLY

Michele Barry

Professor of Medicine and Global Health

Yale University School of Medicine, New Haven, CT, United States

12:30 p.m.

BREAKING INTO A GLOBAL HEALTH CAREER

Nadia Sam-Agudu

Pediatric Infectious Disease Fellow

University of Minnesota, Farmington, MN, United States

12:35 p.m.

CAREER OPPORTUNITIES IN THE FOUNDATION WORLD AND BEYOND

Regina Rabinovich

Director, Infectious Diseases Program

Bill and Melinda Gates Foundation, Seattle, WA, United States

12:40 p.m.

CAREER OPPORTUNITIES IN GLOBAL HEALTH AND ASTMH'S ROLE IN PROMOTING TRAINING AND ENTRY INTO CAREER TRACKS

Panel Discussion

Mid-Day Session 30

Modern Multi-Modality Imaging of Tropical Diseases

Salon KL

Monday, November 5, 2007 12:15 p.m. - 1:15 p.m.

Modern multi-modality imaging, including CT, MRI, ultrasound and general radiology can contribute greatly to the diagnosis of over 70 tropical diseases.

Speaker

Maurice Merrick Reeder

American College of Radiology, Potomac, MD, United States

Mid-Day Session 31

Chagas: A Hidden Affliction

Franklin 1

Monday, November 5, 2007 12:15 p.m. - 2 p.m.

Filmed in Argentina, the United States and Europe, this documentary gives a voice to those suffering from Chagas, and to those working to find a cure to this disease that affects about 20 million people worldwide, but is practically unknown to the general public.

CHAIR

Rick L. Tarleton

University of Georgia, Athens, GA, United States

PRODUCER

Ricardo Preve

Ricardo Preve Films LLC, Buenos Aires, Argentina

Mid-Day Session 32

Preparation and Review of Scientific Manuscripts for the American Journal of Tropical Medicine & Hygiene

Franklin 2

Monday, November 5, 2007 12:15 p.m. - 1:15 p.m.

This symposium is aimed at trainees and others interested in understanding better how manuscripts are reviewed, edited and processed by the society's journal. Pointers on preparation and review of manuscripts will be stressed. The following topics will be covered: 1) Why publish your work in our society's journal; 2) Why and where to publish, i.e. selection of the "right" journal for your work; 3) Examples of a paper in progress; how to prepare and how to write a good paper; 4) The submission and review processes and

how they work; 5) How to properly review a paper; 6) How to respond to reviewer comments; and 6) The publication process: what happens after your paper is accepted.

CHAIR

James Kazura

Case Western Reserve University, Cleveland, OH, United States

Cathi Siegel

Case Western Reserve University, Cleveland, OH, United States

12:15 p.m.

WHY SELECT THE AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE (AJTMH) FOR YOUR PAPER: SELECTING THE RIGHT JOURNAL FOR YOUR WORK

James Kazura

Case Western Reserve University, Cleveland, OH, United States

12:30 p.m.

MANUSCRIPT PROCESSING AT AJTMH

Cathi Siegel

Case Western Reserve University, Cleveland, OH, United States

12:45 p.m.

WHAT CONSTITUTES A WELL VERSUS POORLY-WRITTEN MANUSCRIPT: RESPONDING TO REVIEWERS' COMMENTS

James Kazura

Case Western Reserve University, Cleveland, OH, United States

12:50 p.m.

WHAT CONSTITUTES A WELL VERSUS POORLY-WRITTEN MANUSCRIPT: RESPONDING TO REVIEWERS' COMMENTS

Joseph M. Vinetz

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

12:55 p.m.

THE REVIEW: EDITORIAL, CORRESPONDING AUTHOR AND REVIEWER PERSPECTIVES

James Kazura

Case Western Reserve University, Cleveland, OH, United States

1 p.m.

THE REVIEW: EDITORIAL, CORRESPONDING AUTHOR AND REVIEWER PERSPECTIVES

Joseph M. Vinetz

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

1:05 p.m.

OPEN FORUM

Meet the Professors 32A

Meet the Professors B: Enigmatic and Teaching Cases

Franklin 3/4

Monday, November 5, 2007 12:15 p.m. - 1:15 p.m.

A panel of professors will each present one clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose. If there is time, participants may be able to present enigmatic cases for the audience and panel to consider. An open discussion will be encouraged, with audience participation.

CHAIR

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

PANELISTS

David O. Freedman

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

J. Dick MacLean

McGill University Center for Tropical Diseases, Montreal, QC, Canada

Poster Session A Viewing

Franklin Hall B

Monday, November 5, 2007 1:30 p.m. - 7 p.m.

Symposium 33

Diagnostics in the Tropics – Time to Take the Guesswork Out of Clinical Practice

Salon AB

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

In many parts of the tropics, there is no adequate laboratory service. Whilst syndromic treatment algorithms have proven successful in some contexts, lack of a confirmed diagnosis can result in unnecessary treatment, resulting in drug wastage and the encouragement of resistance on the one hand and delayed discovery of the correct diagnosis on the other. Technological advances now give the opportunity to achieve a precise diagnosis of a variety of conditions in the field. This symposium will highlight these advances and their potential impact in the tropics.

CHAIR

Peter L. Chiodini

Hospital for Tropical Diseases, London, United Kingdom

Mark Perkins

Foundation for Innovative New Diagnostics, Geneva, Switzerland

1:30 p.m.

DIAGNOSTICS FOR SEXUALLY TRANSMITTED INFECTIONS

Rosanna Peeling

World Health Organization, Geneva, Switzerland

Detailed Program

2 p.m.

QUALITY ASSESSMENT IN PARASITOLOGY: THE TEMPERATE AND THE TROPICAL

Peter L. Chiodini

Hospital for Tropical Diseases, London, United Kingdom

2:25 p.m.

DEVELOPMENTS IN TB DIAGNOSTICS

Mark Perkins

Foundation for Innovative New Diagnostics, Geneva, Switzerland

2:50 p.m.

MALARIA DIAGNOSTICS: OBTAINING RESULTS THAT CAN INFLUENCE MANAGEMENT

David Bell

World Health Organization, Manila, Philippines

Symposium 34

Cell and Molecular Biology of Trypanosomatid Infections: Parasite Biology

Salon CD

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

The symposium will focus on recent advances in understanding the cell and molecular biology associated with survival of African trypanosomes and Leishmania in their mammalian hosts and insect vectors. Talks will be on chromatin modifications at chromosomal telomeres associated with antigenic variation in African trypanosomes, mechanisms of RNAi and gene expression in leishmania and the significance of cell motility in African trypanosomes.

CHAIR

John E. Donelson

University of Iowa, Iowa City, IA, United States

Mary E. Wilson

University of Iowa, Iowa City, IA, United States

1:30 p.m.

PARSING CHROMATIN MODIFICATIONS FOR RELEVANCE TO ANTIGENIC VARIATION IN *TRYPANOSOMA BRUCEI*

George A. Cross

Rockefeller University, New York, NY, United States

1:50 p.m.

DEVELOPMENTAL GENE REGULATION IN LEISHMANIA

Barbara Papadopoulou

Laval University, Quebec, QC, Canada

2:10 p.m.

PARASITES IN MOTION: MECHANISM AND BIOLOGY OF FLAGELLAR MOTILITY IN AFRICAN TRYPANOSOMES

Kent Hill

University of California at Los Angeles, Los Angeles, CA, United States

2:30 p.m.

RNAI IS ALIVE AND WELL IN LEISHMANIA BRAZILIENSIS

Steve M. Beverley

Washington University in St. Louis, St. Louis, MO, United States

Scientific Session 35

Malaria - Immunology I

Salon E

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

CHAIR

Clara Menendez

University of Barcelona, Barcelona, Spain

Martha Sedegah

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

1:30 p.m.

300

THE ACQUISITION OF INVASION INHIBITORY ANTIBODIES AND ANTIBODIES TO ERYTHROCYTE INVASION LIGANDS OF *P. FALCIPARUM*

Fiona McCallum¹, Kristina Persson¹, Cleopatra Mugenyi², Linda Reiling¹, Jack Richards¹, Tom Williams², Robin Anders³, Alan Cowman¹, Kevin Marsh², James Beeson¹

¹The Walter and Eliza Hall Institute of Medical Research, Parkville, Australia,

²Centre for Geographic Medicine Research, Kenya Medical Research

Institute, Kilifi, Kenya, ³Latrobe University, Melbourne, Australia

1:45 p.m.

301

TWO LONGITUDINAL COHORT STUDIES INVESTIGATING MECHANISMS OF INNATE AND ACQUIRED IMMUNITY TO MALARIA IN CHILDREN FROM HIGHLY ENDEMIC REGIONS OF PAPUA NEW GUINEA

Leanne J. Robinson¹, Marthe C. D'Ombain¹, Enmoore Lin², Jack Taraika², Nicholas Bernard¹, Pascal Michon², Chris L. King³, James G. Beeson¹, Danielle I. Stanicic², Ivo Mueller², Louis Schofield¹

¹The Walter & Eliza Hall Institute of Medical Research, Parkville, Australia,

²Papua New Guinea Institute of Medical Research, Madang, Papua New

Guinea, ³Center for Global Health and Diseases, Case Western Reserve

University, Cleveland, OH, United States

(ACMCIP Abstract)

2 p.m.

302

THE RATE OF ACQUISITION OF HUMAN ANTIBODY ISOTYPE PROFILES TO *PLASMODIUM FALCIPARUM* BLOOD STAGE ANTIGENS IN GAMBIAN INFANTS

Nancy O. Duah¹, Kevin Tetteh¹, Onome Akpogheneta¹, Spencer Polley¹, Patrick Corran¹, Hilton Whittle², David J. Conway²

¹London School of Hygiene and Tropical Medicine, London, United

Kingdom, ²Medical Research Council-The Gambia, Banjul, Gambia

2:15 p.m.

303

MULTIPLEXED MEASUREMENT OF EPSTEIN BARR VIRUS, CYTOMEGALOVIRUS AND *P. FALCIPARUM*-SPECIFIC ANTIBODIES USING THE LUMINEX SYSTEM

Erwan Piriou¹, Kiprotich Chelimo¹, Rhonda Kimmel², Sheetij Dutta³, Carole Long⁴, David E. Lanar³, Jaap M. Middelorp⁵, Ann M. Moormann², Rosemary Rochford⁶

¹Center for Vector Biology and Control Research, Kenyan Medical Research Institute, Kisumu, Kenya, ²Case Western Reserve University, Cleveland, OH, United States, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ⁵Vrije Universiteit Medical Center, Amsterdam, The Netherlands, ⁶SUNY Upstate Medical University, Syracuse, NY, United States

2:30 p.m.

304

IMMUNOGENICITY OF A MULTI-STAGE, MULTI-ANTIGEN ADENOVIRUS-VECTORED *P. FALCIPARUM* MALARIA VACCINE

Martha Sedegah¹, David Regis¹, Harini Ganeshan¹, Stephen Abot¹, Glenna Banania¹, Denise L. Doolan¹, Keith Limbach¹, Joseph Bruder², Christopher King², Noelle Patterson¹, Jose Mendoza-Silveiras¹, Sharina Reyes¹, Frank Williams³, Ilin Chuang¹, Lorraine Soisson⁴, Carter Diggs⁴, Thomas Richie¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²GenVec Inc., Gaithersburg, MD, United States, ³National Medical Research Center, Bethesda, MD, United States, ⁴United States Agency for International Development, Washington, DC, United States

2:45 p.m.

305

IMMUNOLOGICAL STUDIES OF *P. FALCIPARUM* MEROZOITE SURFACE PROTEIN 1, MSP1-33 AND ITS POTENTIAL INFLUENCE TOWARD MSP1 VACCINE DESIGN

Kae Pusic¹, Caryn Hashimoto¹, Walter Ho², David Clements³, George Hui¹

¹University of Hawaii, Honolulu, HI, United States, ²Chinese University of Hong Kong, Shatin, Hong Kong, ³Hawaii Biotech Inc., Aiea, HI, United States

3 p.m.

306

IMPACT OF INTERMITTENT PREVENTIVE TREATMENT WITH SULFADOXINE-PYRIMETHAMINE ON THE DEVELOPMENT OF IMMUNE RESPONSES TO *PLASMODIUM FALCIPARUM* IN MOZAMBICAN CHILDREN

Carlota Dobaño¹, Diana Quelhas², Laura Puyol¹, Llorenç Quintó¹, Elisa Serra-Casas¹, Tacilta Nhampossa², Eusebio Macete², Pedro Aide², Alfredo Mayor¹, Inacio Mandomando², Sergi Sanz¹, John J. Aponte¹, Chetan Chitnis³, Pedro L. Alonso¹, Clara Menéndez¹

¹Centre de Salut Internacional, Hospital Clínic, Institut d'Investigacions Biomèdiques August Pi i Sunyer, Universitat de Barcelona, Barcelona, Spain, ²Centro de Investigaçao em Saude da Manhiça, Manhiça, Mozambique, ³International Centre for Genetic Engineering and Biotechnology, New Delhi, India

Symposium 36**American Committee of Medical Entomology (ACME) I: Andrew Spielman's Contributions to Medical Entomology**

Salon F

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

The late Andy Spielman, an ASTMH member since the mid 1950s, is remembered for his contributions to tropical medicine and to medical entomology in general. This ACME symposium will attempt to summarize Andy's perspective and influence on medical entomology.

CHAIR

Sam R. Telford

Tufts University, North Grafton, MA, United States

Kenneth Linthicum

United States Department of Agriculture, Gainesville, FL, United States

1:30 p.m.

HISTORY OF MEDICAL ENTOMOLOGY AT HARVARD

Sam R. Telford

Tufts University, North Grafton, MA, United States

1:55 p.m.

TEACHING PUBLIC HEALTH ENTOMOLOGY

Richard J. Pollack

Harvard School of Public Health, Boston, MA, United States

2:20 p.m.

TRENDS IN MEDICAL ENTOMOLOGY

Duane Gubler

Asia-Pacific Institute of Tropical Medicine and Infectious Disease, Honolulu, HI, United States

2:50 p.m.

THE VECTOR BIOLOGY PROGRAM AT NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES: PAST, PRESENT AND FUTURE

Adriana Costero

National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

Detailed Program

Symposium 37

Chagas' Disease

Salon G

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

This symposium will focus on Chagas' disease with special emphasis on development of novel chemotherapy, diagnosis and treatment of human and murine Chagas' disease, experimental evidence on the biological role of the *T. cruzi* protease cruzain in immune evasion and the mechanism of action of cysteine protease inhibitors.

CHAIR

Patricia S. Doyle

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

James H. McKerrow

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

1:30 p.m.

NOVEL ERGOSTEROL BIOSYNTHESIS INHIBITORS AS SPECIFIC CHEMOTHERAPEUTIC AGENTS FOR CHAGAS' DISEASE

Julio Urbina

Instituto Venezolano de Investigaciones Cientificas, Caracas, Venezuela

1:50 p.m.

PROGRESS IN DEVELOPING STEROL C14-DEMETHYLASE INHIBITORS FOR CHAGAS' DISEASE

Frederick S. Buckner

University of Washington, Seattle, WA, United States

2:10 p.m.

DEVELOPING NEW DRUGS FOR CHAGAS' DISEASE IN AN ACADEMIC INCUBATOR

James H. McKerrow

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

2:30 p.m.

DIAGNOSIS AND TREATMENT OF HUMAN (AND MURINE) CHAGAS' DISEASE

Rick L. Tarleton

University of Georgia, Athens, GA, United States

2:50 p.m.

THE *TRYPANOSOMA CRUZI* PROTEASE CRUZAIN MEDIATES IMMUNE EVASION

Patricia S. Doyle

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

Symposium 38

The Elimination of Blinding Trachoma

Salon H

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

This symposium will review progress towards the goal of eliminating blinding trachoma by the year 2020. Recent research on the surgical treatment

of late trachoma, on the use of antibiotics to eliminate the ocular reservoir of *Chlamydia trachomatis* infection and on the pathogenesis of scarring trachoma and its relationship to ocular infection will be reviewed, leading to recommendations on the optimal strategies for trachoma control and for the certification of its elimination.

CHAIR

David C. Mabey

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

1:30 p.m.

PREVENTION OF BLINDNESS FROM TRACHOMA: IMPROVING SURGERY FOR TRICHIASIS

Sheila West

Johns Hopkins University, Baltimore, MD, United States

1:55 p.m.

ELIMINATION OF INFECTIOUS TRACHOMA FROM THE MOST SEVERELY AFFECTED AREAS WITH MASS AZITHROMYCIN DISTRIBUTIONS

Thomas Lietman

University of California at San Francisco, San Francisco, CA, United States

2:20 p.m.

TARGETING AZITHROMYCIN TREATMENT FOR TRACHOMA ELIMINATION: LESSONS FROM THE ENDGAME IN THE GAMBIA

Robin Bailey

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

2:45 p.m.

STUDIES ON THE PATHOGENESIS OF SCARRING TRACHOMA AND TRICHIASIS

Matthew Burton

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

Symposium 39

Parasitic and Vector-Borne Zoonoses

Supported with funding from The Companion Animal Parasite Council

Salon IJ

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

Interesting human cases of zoonotic parasitism and vector-borne zoonoses will be presented, with opportunity for audience participation in diagnosis and management. Cases will illustrate new scientific or public health developments relevant to clinical practice.

CHAIR

Leonard C. Marcus

Travelers' Health and Immunization Services, Newton, MA, United States

1:30 p.m.

THE COMPANION ANIMAL PARASITE COUNCIL: A USEFUL RESOURCE

Michael Paul
Companion Animal Parasite Council, Anguilla, Anguilla

1:55 p.m.

UNUSUAL CASES OF HELMINTHIC ZONOSSES

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

2:20 p.m.

A CAT CAUSES A PUBLIC HEALTH PROBLEM

Leonard C. Marcus
Travelers' Health and Immunization Services, Newton, MA, United States

2:45 p.m.

THIS MITE BE A PROBLEM

Richard Pollack
Harvard School of Public Health, Boston, MA, United States

Symposium 40

Novel Approaches to Designing Mosquito Repellents

Salon KL

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

Humans and many other organisms have long sought products to keep arthropods, including mosquitoes, from biting. Although incompletely effective, significant resources are spent on mosquito repellents even in developing countries where income is limited. Efforts to identify the odorant genes and receptors that enable mosquitoes to seek out their preferred hosts have been accelerated by the availability of complete genomic sequence data for the mosquito vectors of malaria and dengue. Speakers will consider rational approaches for designing new repellents and assessing their effectiveness based on the recent advances.

CHAIR

Michael Gottlieb
Foundation for the National Institutes of Health, Bethesda, MD, United States

1:30 p.m.

INTERFERING WITH MOSQUITO'S ATTRACTION TO HUMANS

Mustapha Debboun
U.S. Army Medical Department Center and School, Fort Sam Houston, TX, United States

2 p.m.

MOSQUITO GENOME PROJECTS: ODORANT GENES AND RECEPTORS FUEL DISCOVERY OF NEW APPROACHES TO AN OLD PROBLEM

Laurence J. Zwiebel
Vanderbilt University, Nashville, TN, United States

2:25 p.m.

MECHANISMS SUPPORTING ODOR AND CARBON DIOXIDE DETECTION IN MOSQUITOES

Leslie Vosshall
The Rockefeller University, New York, NY, United States

2:50 p.m.

PROSPECTS FOR THE FUTURE

Daniel Strickman
U.S. Department of Agriculture, Beltsville, MD, United States

Symposium 41

Programming National Malaria Control for Impact in Africa

Liberty AB

Monday, November 5, 2007 1:30 p.m. - 3:15 p.m.

Malaria control scale-up for impact is a programming approach to rapidly implementing high coverage of an epidemiologically tailored package of proven malaria interventions to achieve, sustain and document health and economic impact. Several African countries are partnering with global organizations (notably the World Bank Global Strategy and Booster Program; the Global Fund for AIDS, Tuberculosis and Malaria; the U.S. President's Malaria Initiative; and the MACEPA program at PATH) to develop the methods and document the results of national scale-up for impact efforts. This intensified commitment to national-scale malaria control constitutes a multi-country, evidence-based demonstration of the feasibility and benefits of comprehensive malaria control programming. This symposium will examine African countries' preparedness for scale-up, the approaches being deployed, the results from two representative countries and the key challenges to sustaining and expanding global support of malaria control scale-up in Africa.

CHAIR

Carlos (Kent) C. Campbell
PATH Malaria Control and Evaluation Partnership in Africa (MACEPA), Seattle, WA, United States

David Brandling-Bennett
Bill & Melinda Gates Foundation, Seattle, WA, United States

Simon K. Miti
Ministry of Health, Zambia, Lusaka, Zambia

1:30 p.m.

INTRODUCTION

David Brandling-Bennett
Bill & Melinda Gates Foundation, Seattle, WA, United States

1:40 p.m.

INTRODUCTION

Simon K. Miti
Ministry of Health, Zambia, Lusaka, Zambia

Detailed Program

1:50 p.m.

STATUS OF MALARIA PROGRAM COVERAGE IN THE AFRICA REGION: ANALYSIS OF SURVEY DATA, 2005 - 2007

Bernard Nahlen

President's Malaria Initiative, Washington, DC, United States

2 p.m.

ZAMBIA'S MALARIA CONTROL PLANNING SYSTEM AND RESULTS OF PROGRAM SCALE-UP, 2005 - 2007

Elizabeth Chizema

Ministry of Health, Lusaka, Zambia

2:20 p.m.

ETHIOPIA'S PROGRESS IN ACCELERATING NATIONAL MALARIA CONTROL

Afewerk Hailemariam

Federal Ministry of Health, Addis Ababa, Ethiopia

2:40 p.m.

IT TAKES MORE THAN FUNDING: THE CRITICAL ROLE OF PARTNERS IN SUPPORTING SCALE-UP

Awa Marie Coll-Seck

Roll Back Malaria Partnership, Geneva, Switzerland

3 p.m.

HOW READY ARE AFRICAN COUNTRIES TO SCALE UP FOR IMPACT? RESULTS OF GAP ANALYSIS

Melanie Renshaw

UNICEF, New York, NY, United States

Scientific Session 42

Schistosomiasis I - Immunology/Parasite Development

Franklin 3/4

Monday, November 5, 2007

1:30 p.m. - 3:15 PM

CHAIR

Daniel G. Colley

University of Georgia, Athens, GA, United States

Stephen Davies

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

1:30 p.m.

MULTI-CYTOKINE KNOCKOUT MICE AS TOOLS TO STUDY THE PATHOGENESIS OF FIBROSIS

Thomas A. Wynn

National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

2 p.m.

307

CYTOKINE GENE AND PROMOTER POLYMORPHISMS IN HUMAN SCHISTOSOMIASIS MANSONI

Michael R. Gatlin¹, Carla L. Black¹, Pauline N. Mwinzi², W. Evan Secor³, Diana M. Karanja², Daniel G. Colley¹

¹University of Georgia, Athens, GA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

2:15 p.m.

308

INVESTIGATIONS INTO THE UPTAKE AND ROLE OF IRON IN SCHISTOSOMES

Malcolm Jones, Amber Glanfield

Queensland Institute of Medical Research, Herston, Queensland, Australia

(ACMCIP Abstract)

2:30 p.m.

309

BLOOD FLUKE EXPLOITATION OF INNATE-ADAPTIVE IMMUNE INTERACTIONS TO FACILITATE PARASITE DEVELOPMENT

Erika W. Lamb¹, Emily T. Crow¹, John T. Pesce², Thomas A. Wynn², Brian C. Schaefer¹, Stephen J. Davies¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

2:45 p.m.

310

ASSOCIATION BETWEEN PRETREATMENT CYTOKINE PRODUCTION AND INTENSITY OF INFECTION AND RESISTANCE TO REINFECTION IN HUMAN SCHISTOSOMIASIS MANSONI

Carla L. Black¹, Pauline N. Mwinzi², Erick M. Muok², Bernard Abudho², W. Evan Secor³, Diana M. Karanja², Daniel G. Colley¹

¹University of Georgia, Athens, GA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

3 p.m.

311

ROLE OF CD4⁺ T CELL RESPONSES DURING EARLY SCHISTOSOME INFECTION

Mazen Makarem¹, Tuere Wilder², Anna Tocheva¹, Lucia A. Fraga¹, Bruce N. Cronstein², Stephen J. Davies¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Department of Medicine, Division of Clinical Pharmacology, New York, NY, United States

Exhibit Hall Open*Franklin Hall B*

Monday, November 5, 2007 3 p.m. - 4 p.m.

Coffee Break*Franklin Hall B*

Monday, November 5, 2007 3:15 p.m. - 3:45 p.m.

Symposium 43**M(X)DR-Tuberculosis: A Global Threat***Salon AB*

Monday, November 5, 2007 3:45 p.m. - 5:30 p.m.

On September 1, 2006, the World Health Organization (WHO) announced that a deadly new strain of extensively drug-resistant tuberculosis (XDR-TB) had been detected in Tugela Ferry, a rural town in the South African Province of KwaZulu Natal, the epicenter of South Africa's HIV epidemic. Tuberculosis, already the world's fourth most fatal infectious disease, could wreak havoc with AIDS treatment program. The speakers will update on the current epidemiology, clinical and public health strategies to efficiently address the global challenge of this emerging threat.

CHAIR

Jean B. Nachega

Johns Hopkins University, Baltimore, MD, United States

Rocio Hurtado

*Harvard Medical School-MGH, Boston, MA, United States***3:45 p.m.****XDR-TB OUTBREAK IN TUGELA FERRY, KWA-ZULU NATAL, SOUTH AFRICA**

Jean Nachega

*Johns Hopkins University, Baltimore, MD, United States***4:10 p.m.****PROGRAMMATIC MODEL OF MDR-TB TREATMENT IN PERU**

Rocio Hurtado

*Harvard Medical School-MGH, Boston, MA, United States***4:35 p.m.****NOVEL LABORATORY DIAGNOSTIC APPROACHES OF M(X) DR-TB IN RESOURCE-LIMITED SETTINGS**

Robert Gilman

*Johns Hopkins University, Baltimore, MD, United States***5 p.m.****MODELING ASPECTS OF XDR-TUBERCULOSIS IN SETTING WITH HIGH HIV PREVALENCE**

David Dowdy

*Johns Hopkins University, Baltimore, MD, United States***Scientific Session 44****Kinetoplastida I: Molecular Biology and Immunology***Salon CD*

Monday, November 5, 2007

3:45 p.m. - 5:30 PM

CHAIR

Christine Petersen

Iowa State University, Ames, IA, United States

Walderez O. Dutra

*Federal University of Minas Gerais, Belo Horizonte, Brazil***3:45 p.m.****312****DISPARATE IMMUNOREGULATORY POTENTIALS FOR CD4-CD8-ALPHA/BETA AND GAMMA/DELTA T CELLS FROM CUTANEOUS LEISHMANIASIS PATIENTS**Lis R. Antonelli¹, Olivia Bacellar², Luis Guimaraes², Edgar Carvalho², Walderez O. Dutra¹, **Kenneth J. Gollob**³¹UFMG, Belo Horizonte, MG, Brazil, ²UFBA-Immunology Service, Hospital Edgard Santos, Salvador, BA, Brazil, ³UFMG-Department of Biochemistry-Immunology, Belo Horizonte, MG, Brazil

(ACMCIP Abstract)

4 p.m.**313****GBV-C VIREMIA INFLUENCE DTH RESPONSE TO LEISHMANIA**Josane R. Lima¹, Jose Wilton Queiroz¹, **Daniel Leung**², Henio G. Lacerda¹, Eliana L. Nascimento¹, Daniella R. Martins¹, Richard D. Pearson³, Mary E. Wilson², Jack T. Stapleton², Selma M. Jeronimo¹¹Universidade Federal do Rio Grande do Norte, Natal, Brazil, ²University of Iowa, Iowa City, IA, United States, ³University of Virginia, Charlottesville, VA, United States**4:15 p.m.****314****NEUTROPHILS DOMINATE THE EARLY INFLAMMATORY RESPONSE DURING ACUTE INTRADERMAL INFECTION WITH LEISHMANIA CHAGASI**Colin J. Thalhoffer¹, A. Paige Davis¹, Mary E. Wilson²¹University of Iowa, Iowa City, IA, United States, ²University of Iowa, VA Medical Center, Iowa City, IA, United States

(ACMCIP Abstract)

4:30 p.m.**315****DETERMINATION OF CANINE IMMUNE DEFICITS WHICH PRE-DISPOSE TO INFECTION WITH LEISHMANIA INFANTUM**Amanda Ramer-Tait, Jack Gallup, Erin Kramer, Doug Jones, **Christy Petersen***Iowa State University, Ames, IA, United States*

(ACMCIP Abstract)

4:45 p.m.

316

OLIGOCLONAL EXPANSIONS AMONG SPECIFIC V β EXPRESSING T CELLS IN HUMAN CHAGAS DISEASECristiane A. Menezes¹, Andrew K. Sullivan², Michael T. Falta², Douglas G. Mack², Brian Freed², Manoel O. Rocha¹, Kenneth J. Gollob¹, Andrew P. Fontenot², **Walderez O. Dutra**¹¹Federal University of Minas Gerais, Belo Horizonte, Brazil, ²University of Colorado Health Sciences Center, Denver, CO, United States

(ACMCIP Abstract)

5 p.m.

317

COMPARISON OF IMMUNE RESPONSES DURING LEISHMANIASIS THERAPY**Mary Marovich**

Walter Reed Army Institute of Research, Rockville, MD, United States

(ACMCIP Abstract)

5:15 p.m.

318

MOLECULAR IDENTIFICATION OF THE GREGARINES OF PHLEBOTOMINE SAND FLIES**Kashinath Ghosh**¹, Henk R. Braig², Phil Lawyer¹, Peter Weina¹, Edgar Rowton¹¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,²University of Wales, Bangor, United Kingdom**Scientific Session 45****Malaria - Immunology II**

Salon E

Monday, November 5, 2007

3:45 p.m. - 5:30 PM

CHAIR

Joanne Lumsden

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

John Waitumbi

Kenya Medical Research Institute, Kisumu, Kenya

3:45 p.m.

319

GENETICALLY-ATTENUATED *PLASMODIUM BERGHEI* LIVER-STAGES INDUCE STERILE PROTRACTED PROTECTION THAT IS MEDIATED BY MHC CLASS I-DEPENDENT IFN- γ PRODUCING CD8+ T CELLS**Ousman Jobe**¹, Joanne Lumsden¹, Robert J. Schwenk¹, Jackie Williams¹, Stefan Kappe², Kai Matuschewski³, Urszula Krzych¹¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,²SBRI, Seattle, WA, United States, ³University of Heidelberg, Heidelberg,

Germany

(ACMCIP Abstract)

4 p.m.

320

INFECTION-INDUCED CYTOKINE PRODUCTION INFLUENCES THE SUPPRESSION OF *PLASMODIUM YOELII* PARASITEMIA FOLLOWING PROTECTIVE IMMUNIZATION**Patricia M. Petritus**, James M. Burns

Drexel University College of Medicine, Philadelphia, PA, United States

(ACMCIP Abstract)

4:15 p.m.

321

FUNCTIONAL ASSOCIATIONS BETWEEN HAPLOTYPES OF NITRIC OXIDE SYNTHASE TYPE 2 (NOS2) PROMOTER VARIANTS (-954G/C AND -1173C/T), PEDIATRIC SEVERE MALARIAL ANEMIA, AND HIGH-DENSITY PARASITEMIA**Collins Ouma**¹, Gordon Awandare², Gregory Davenport², Christopher Keller³, Dorothy Opondo¹, Tom Were¹, Richard Otieno¹, Michael Otieno⁴, Alloys Orago⁴, John Vulule⁵, John Michael Ong'echa¹, Jeremy Martinson², Robert Ferrell², Douglas Perkins²¹University of Pittsburgh/KEMRI, Kisumu, Kenya, ²University of Pittsburgh, Pittsburgh, PA, United States, ³University of Pittsburgh/Lake Erie College of Osteopathic Medicine, Pittsburgh, PA, United States, ⁴Kenyatta University, Nairobi, Kenya, ⁵KEMRI, Kisumu, Kenya

(ACMCIP Abstract)

4:30 p.m.

322

PLACENTAL INTERFERON- γ AND CORD BLOOD FERRITIN ARE RELATED TO BIRTH WEIGHT IN AN AREA OF INTENSE MALARIA TRANSMISSION**Edward R. Kabyemela**¹, Michal Fried², Jonathan Kurtis³, Theonest Mutabingwa¹, Patrick Duffy²¹MOMS Project Muheza Tanzania, Tanga, United Republic of Tanzania,²MOMS Project Seattle Biomedical Research Institute, Seattle, WA, United States,³Brown University, Providence, RI, United States

(ACMCIP Abstract)

4:45 p.m.

323

COMPLEMENT UTILIZATION IN CHILDREN WITH SEVERE MALARIA ANEMIA**Nancy K. Nyakoe**¹, John N. Waitumbi¹, Ron P. Taylor²¹Walter Reed Project/Kenya Medical Research Institute, Kisumu, Kenya,²Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine, Charlottesville, VA, United States

(ACMCIP Abstract)

5 p.m.

324

EFFECTS OF CONCOMITANT *SCHISTOSOMA HAEMATOBII* INFECTION ON THE INTRACELLULAR CYTOKINE LEVELS AND T CELL MEMORY POPULATIONS ELICITED BY ACUTE *PLASMODIUM FALCIPARUM* MALARIA INFECTION IN MALIAN CHILDREN

Kirsten E. Lyke¹, Abdoulaye Dabo², Charles Arama², Modibo Daou², Issa Diarra², Christopher V. Plowe¹, Ogobara K. Doumbo², Marcelo B. Sztein¹

¹University of Maryland School of Medicine, Baltimore, MD, United States,

²Malaria Research and Training Center, University of Bamako, Bamako, Mali

(ACMCIP Abstract)

5:15 p.m.

325

MALARIA AND HELMINTHES CO-INFECTIONS IN CHILDREN AGED 6-17 YEARS IN THE BURMA VALLEY AREA OF ZIMBABWE

Davison T. Sangweme¹, Nicholas Midzi², Sekesai Zinyowera³, Takafira Mduluza⁴, Nirbhay Kumar¹

¹Johns Hopkins University, Baltimore, MD, United States, ²National Institute of Health Research, Harare, Zimbabwe, ³University of Zimbabwe,

Department of Medical Microbiology, Harare, Zimbabwe, ⁴University of Zimbabwe, Department of Biochemistry, Harare, Zimbabwe

(ACMCIP Abstract)

Symposium 46

American Committee of Medical Entomology (ACME) II: Andrew Spielman's Contributions to Medical Entomology

Salon F

Monday, November 5, 2007 3:45 p.m. - 5:30 p.m.

The late Andy Spielman, an ASTMH member since the mid-1950s, is remembered for his contributions to tropical medicine and to medical entomology in general. This ACME symposium will attempt to summarize Andy's perspective and influence on medical entomology.

CHAIR

Sam R. Telford

Tufts University, North Grafton, MA, United States

Kenneth Linthicum

United States Department of Agriculture, Gainesville, FL, United States

3:45 p.m.

ANTIMALARIA INTERVENTION

Uriel Kitron

University of Illinois, Urbana, IL, United States

4:10 p.m.

THE ECOLOGICAL PERSPECTIVE IN MEDICAL ENTOMOLOGY

Mark L. Wilson

University of Michigan School of Public Health, Ann Arbor, MI, United States

4:35 p.m.

EPIDEMIOLOGY OF BABESIOSIS

Peter J. Krause

University of Connecticut School of Medicine, Hartford, CT, United States

5:05 p.m.

PERPETUATION OF ARBOVIRUSES

Michael J. Turell

United States Army Medical Research Institute for Infectious Diseases, Frederick, MD, United States

Symposium 47

Johns Hopkins Malaria Research Institute Symposium on Determinants of Malaria Transmission

Salon JJ

Monday, November 5, 2007 3:45 p.m. - 5:30 p.m.

Factors that influence transmission of the malaria parasite are complex.

Transmission depends on the successful development of the parasite in the human host and in the obligate mosquito vector. Speakers will be asked to provide an overview of the different factors affecting malaria transmission and to relate recent discoveries to potential new strategies for disease control.

CHAIR

Marcelo Jacobs-Lorena

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

3:45 p.m.

AN EVOLUTIONARY PERSPECTIVE TO UNDERSTANDING MALARIA-TRANSMITTING ANOPHOLINES

Jeffrey R. Powell

Yale University, New Haven, CT, United States

4:15 p.m.

MALARIA IN THE MOSQUITO BLOOD MEAL: FROM PROTEOMES AND MOLECULES, TO BIOLOGY

Robert E. Sinden

Imperial College London, London, United Kingdom

4:40 p.m.

***PLASMODIUM* DEVELOPMENT IN THE MOSQUITO**

Marcelo Jacobs-Lorena

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

5:05 p.m.

IMMUNITY TARGETING MALARIA TRANSMISSION

Nirbhay Kumar

Johns Hopkins University, Baltimore, MD, United States

Symposium 48

Fascioliasis – New Developments in Epidemiology, Immunology and Molecular Approaches of Snail/Human Relationships

Detailed Program

Salon KL

Monday, November 5, 2007 3:45 p.m. - 5:30 p.m.

Fascioliasis is an emerging disease of humans, increasingly found worldwide both in the tropical as well as temperate climates. Recent studies have focused on epidemiologic patterns of disease transmission in hyperendemic areas of Latin America. Studies on differences in immune responses to juvenile stages have shown species differences between *F. hepatica* and *F. gigantica*, suggesting differential approaches to vaccines. Vaccine approaches with new vaccine formulations show promise to both decrease disease and transmission in experimental models. Finally, a molecular approach to study the relationships between lymnaeid vectors and human fascioliasis focusing on the Americas will be presented.

CHAIR

George V. Hillyer

University of Puerto Rico School of Medicine, San Juan, PR, United States

3:45 p.m.

HUMAN FASCIOLIASIS DISEASE TRANSMISSION AND EPIDEMIOLOGIC PATTERNS IN ENDEMIC AREAS OF LATIN AMERICA

Santiago Mas Coma

University of Valencia, Valencia, Spain

4:10 p.m.

NEWLY EXCYSTED JUVENILES OF *F. HEPATICA* AND *F. GIGANTICA* DIFFER IN SUSCEPTIBILITY TO IMMUNE EFFECTOR MECHANISMS *IN VITRO*: IMPLICATIONS FOR CONTROL OF FASCIOLIASIS

Terry W. Spithill

McGill University, St. Anne de Bellevue, QC, Canada

4:35 p.m.

ADAD AS A SYSTEM OF VACCINATION AGAINST *F. HEPATICA*

Antonio Muro

University of Salamanca, Salamanca, Spain

5 p.m.

RELATIONSHIPS BETWEEN LYMNAEID VECTORS AND HUMAN FASCIOLIASIS IN THE AMERICAS – A MOLECULAR APPROACH

M. D. Bargues

University of Valencia, Valencia, Spain

Symposium 49

Medicines for Malaria Venture's (MMV's) Drug Discovery Portfolio

Liberty AB

Monday, November 5, 2007 3:45 p.m. - 5:30 p.m.

Medicines for Malaria Venture is funding a number of discovery research projects aimed at designing new drugs for the treatment of malaria. The aim of the symposium is to demonstrate how molecular biologists, parasitologists, biophysicists, medicinal chemists and pharmacists work together to seek to accomplish such goals. It will indicate that modern genomics, combinatorial chemistry and high throughput screening have revolutionized the process. At the same time, it will show how, despite such advances, projects are time-consuming, costly and highly speculative.

CHAIR

Ian Bathurst

Medicines for Malaria Venture, Geneva, Switzerland

Winston Gutteridge

Medicines for Malaria Venture, Sevenoaks, United Kingdom

3:45 p.m.

PSAC ANTAGONISTS AS LEAD COMPOUNDS FOR ANTI-MALARIAL DEVELOPMENT

Sanjai Desai

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

4:15 p.m.

NOVEL INHIBITORS OF MALARIAL DHFR

Yongyuth Yuthavong

Biotec Thailand, Bangkok, Thailand

4:40 p.m.

SECOND GENERATION SYNTHETIC PEROXIDE ANTIMALARIALS

Susan Charman

Monash University, Victoria, Australia

5 p.m.

4-PYRIDONES AS PUTATIVE ANTIMALARIALS

Domingo Gargallo

GlaxoSmithKline, Madrid, Spain

Symposium 50

Outbreak Reporting Mechanisms

Franklin 1

Monday, November 5, 2007 3:45 p.m. - 5:30 p.m.

Information about the occurrence of epidemic outbreaks is fragmented among multiple sources, but many of them suffer from considerable delays. Additionally, their representativeness remains fairly unknown and it is unclear how much overlap exists between these disparate sources. This symposium presents some of the main sources identified, describing their strengths, limitations, possible overlap and potential for integration.

CHAIR

Andres G. Lescano

U.S. Naval Medical Research Center Detachment, Lima, Peru

David L. Blazes

U.S. Naval Medical Research Center Detachment, Lima, Peru

3:45 p.m.

CENTERS FOR DISEASE CONTROL AND PREVENTION'S OUTBREAK REPORTS

Ray R. Arthur

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

4:15 p.m.**PROMED: MONITORING EMERGING DISEASE OUTBREAKS THROUGH UNOFFICIAL SOURCES**

Lawrence C. Madoff

*Harvard Medical School, Boston, MA, United States***4:40 p.m.****GLOBAL OUTBREAK ALERT AND RESPONSE NETWORK**

Marlo Libel

*Pan-American Health Organization, Washington, DC, United States***5:05 p.m.****OUTBREAK REPORTS IN (AND OUT OF) THE SCIENTIFIC LITERATURE**

Gabriela Salmón-Mulanovich

*Naval Medical Research Center Detachment, Lima, Peru***Scientific Session 51****Bacteriology III***Franklin 2*

Monday, November 5, 2007 3:45 p.m. - 5:30 p.m.

CHAIR

Samba O. Sow

Center for Vaccine Development - Mali, Bamako, Mali

Michael Y. Kosoy

*Centers for Disease Control and Prevention, Fort Collins, CO, United States***3:45 p.m.****326****EARLY IMPACT OF HAEMOPHILUS INFLUENZAE TYPE B VACCINE INTRODUCTION INTO THE ROUTINE EXPANDED IMMUNIZATION PROGRAMME IN BAMAKO, MALI****Samba O. Sow**¹, Milagritos D. Tapia², Karen L. Kotloff², Mariam Sylla³, Souleymane Diallo³, Mama N. Doumbia¹, Mahamadou M. Keita¹, Mamadou M. Keita³, Myron M. Levine²¹Centre pour le Developpement des Vaccins - Mali, Bamako, Mali,²University of Maryland School of Medicine, Baltimore, MD, United States,³Hopital Gabriel Toure, Bamako, Mali**4 p.m.****327****ENHANCED MICROBIOLOGY LABORATORY CAPACITY FOR PUBLIC HEALTH MISSIONS: CHALLENGES AND SOLUTIONS IN IMPLEMENTING STATE-OF-THE-ART TECHNOLOGY IN SOUTHEAST ASIA****Leonard Peruski**¹, Wanna Wongjindanon¹, Boonchuay Eampokalap², Leelaowadee Sangsuk², Possawat Jorakate¹, Anek Kaewpan¹, Prasert Salika¹, Prabda Prapasiri¹, Sathapana Naorat¹, Somsak Rienthong², Henry Baggett¹, Susan Maloney¹¹International Emerging Infections Program, Bangkok, Thailand, ²Ministry of Public Health, Bangkok, Thailand**4:15 p.m.****328****TRANSMISSION OF BACTERIA RATHER THAN ANTIBIOTIC USE DETERMINES RESISTANCE LEVELS: DATA AND MODELS FROM NORTHERN ECUADOR****Joseph N. Eisenberg**¹, William Cevallos², Gabriel Trueba², Rosana Segovia², Karen Levy³, James Scott⁴, Alan Hubbard³, Betsy Foxman¹, Carl Marrs¹, Lixin Zhang¹, James Trostle⁵¹University of Michigan, Ann Arbor, MI, United States, ²Universidad San Francisco de Quito, Quito, Ecuador, ³University of California, Berkeley, Berkeley, CA, United States, ⁴University of California, Berkeley, Ann Arbor, CA, United States, ⁵Trinity College, Hartford, CT, United States**4:30 p.m.****329****ANTIBIOTIC USE BEFORE CULTURE REDUCES BACTERIAL YIELD AMONG PATIENTS EVALUATED FOR COMMUNITY-ACQUIRED BACTEREMIA IN THAILAND****Cynthia Fisher**¹, Henry Baggett², Possawat Jorakate³, Wanna Wongjindanon², Boonchuay Eampokalap⁴, Somsak Thamthitawat², Sonja Olsen⁵, Julia Rhodes², Leelaowadee Sangsuk⁶, Susan Maloney², Leonard Peruski²¹Johns Hopkins School of Medicine, Baltimore, MD, United States,²International Emerging Infections Program, Thailand Ministry of Public Health-U.S. Centers for Disease Control and Prevention Collaboration,Nonthaburi, Thailand, ³International Emerging Infections Program, Thailand

Ministry of Public Health-US Centers for Disease Control and Prevention

Collaboration, Nonthaburi, Thailand, ⁴Bamrasnaradura Infectious DiseaseInstitute, Ministry of Public Health, Nonthaburi, Thailand, ⁵Centers forDisease Control and Prevention, Atlanta, GA, United States, ⁶National

Institute of Health, Ministry of Public Health, Nonthaburi, Thailand

4:45 p.m.

330

IDENTIFICATION OF ANIMAL SOURCES OF HUMAN BARTONELLOSIS IN THAILAND: COMPARISON OF BARTONELLA SEQUENCES FROM HUMAN PATIENTS AND RODENT HOSTS

Michael Kosoy¹, Ying Bai¹, Christina Morway¹, Kelly Sheff¹, Leonard Peruski², Henry Baggett², Susan Maloney², Saithip Sutthirattana², Scott Dowell³, Anussorn Sitdhiras⁴, Kriangkrai Lerdthusnee⁵, Jittawadee Murphy⁵

¹Centers for Disease Control and Prevention, Fort Collins, CO, United States,

²International Emerging Infections Program, Nonthaburi, Thailand, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Ministry of Public Health, Bangkok, Thailand, ⁵Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

5 p.m.

331

CLINICAL CHARACTERISTICS OF CONFIRMED BARTONELLA INFECTIONS AND PREVALENCE OF BARTONELLA ANTIBODIES AMONG PATIENTS PRESENTING TO COMMUNITY HOSPITALS IN RURAL THAILAND

Saithip Sutthirattana¹, Michael Kosoy², Anussorn Sitdhiras³, Christina Morway², Henry Baggett¹, Kelly Sheff², Scott F. Dowell⁴, Tamara Fisk¹, Ying Bai², Leonard F. Peruski Jr.¹

¹Thailand MOPH-US Centers for Disease Control and Prevention Collaboration, Nonthaburi, Thailand, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States, ³Office of the Permanent Secretary, Ministry of Public Health, Nonthaburi, Thailand, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

5:15 p.m.

332

GEOGRAPHIC INFORMATION SYSTEM ANALYSIS OF BARTONELLOSIS IN AN EPIDEMIC SETTING IN CUSCO PERU

Hugo R. Razuri¹, Jesus Gonzalez¹, Penny Masuoka¹, Bonnie Smoak¹, Scott Gordon¹, Nicolle Achee¹, Manuel Montoya², Larry Laughlin¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Hospital Regional del Cusco, Cusco, Peru

Scientific Session 52**Schistosomiasis II - Epidemiology/Vaccine Development**

Franklin 3/4

Monday, November 5, 2007 3:45 p.m. - 5:30 p.m.

CHAIR

Jonathan D. Kurtis

Brown University, Providence, RI, United States

Patrick Skelly

Tufts University, North Grafton, MA, United States

3:45 p.m.

SCHISTOSOMIASIS: FROM THE BENCH TO THE FIELD TO THE BENCH

Juerg Utzinger

Swiss Tropical Institute, Basel, Switzerland

Zhou Xiaonong

China CDC National Institute of Parasitic Diseases, Shanghai, China

4:30 p.m.

333

AMINO ACID TRANSPORT IN SCHISTOSOMES: CHARACTERIZATION OF THE PERMEASE HEAVY CHAIN SPRM1HC

Greice Krautz-Peterson¹, Simone Camargo², Katja Huggel², François Verrey², Charles B. Shoemaker¹, Patrick J. Skelly¹

¹Tufts University, North Grafton, MA, United States, ²University of Zürich, Zürich, Switzerland

4:45 p.m.

334

GENERATION OF AN IGG ANTI-GLYCAN MONOCLONAL ANTIBODY, F2D2.2, THAT REACTS WITH A FUCOSE-CONTAINING EPITOPE OF SCHISTOSOMES AND CROSS-REACTS WITH KEYHOLE LIMPET HEMOCYANIN

Anthony K. Nyame¹, Nelum Dorabawila¹, Msano Mandalasi¹, Richard D. Cummings²

¹University of Maryland Eastern Shore, Princess Anne, MD, United States, ²Emory University, Atlanta, GA, United States

(ACMCIP Abstract)

5 p.m.

335

PILOT SCALE EXPRESSION AND PURIFICATION OF SCHISTOSOMA JAPONICUM PARAMYOSIN

Mario Jiz¹, Sunthorn Pond-Tor¹, Mindy Reynolds², Remigio Olveda³, Haiwei Wu¹, Luz Acosta³, Jonathan Kurtis¹

¹Center for International Health Research, Rhode Island Hospital, Brown University School of Medicine, Providence, RI, United States, ²Pathobiology Graduate Program, Brown University, Providence, RI, United States, ³Research Institute for Tropical Medicine, Manila, Philippines

(ACMCIP Abstract)

5:15 p.m.

336

MOLECULAR AND EVOLUTIONARY EPIDEMIOLOGY OF SCHISTOSOMA MANSONI IN HUMAN HOSTS

Michelle L. Steinauer¹, Ian J. Wilson², Gerald M. Mkoji³, Eric L. Agola³, Ibrahim Ndugu³, Geoffrey Maina³, Diana Karanja⁴, Eric S. Loker¹

¹University of New Mexico, Albuquerque, NM, United States, ²University of Newcastle upon Tyne, Newcastle upon Tyne, United Kingdom, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Kenya Medical Research Institute, Kisumu, Kenya

Plenary Session 53**Plenary Session II: Fred L. Soper Lecture**

Salon GH

Monday, November 5, 2007 6 p.m. - 6:45 p.m.

The Fred L. Soper Lecture is an honor bestowed on a distinguished scientist involved in studies related to environmental control and preventive medicine in the tropics.

CHAIR

Robert B. Tesh
University of Texas Medical Branch, Galveston, TX, United States

THE RECENT EVOLUTION OF CHOLERA AND NEW STRATEGIES FOR ITS CONTROL

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

Poster Session A Dismantle

Franklin Hall B

Monday, November 5, 2007 7 p.m. - 8 p.m.

Late Breakers in Clinical Tropical Medicine

Salon AB

Monday, November 5, 2007 7 p.m. - 9 p.m.

This session is specifically designed for presentations of new data obtained after the closing date for abstract submission. Presentations feature reports of clinical trials, preliminary data on new outbreaks of disease or individual case reports of interest. See Late Breaker Abstract handout in your registration packet for the presentation schedule.

CHAIR

Davidson H. Hamer
Boston University School of Public Health, Boston, MA, United States

Barbara L. Herwaldt
Centers for Disease Control and Prevention, Atlanta, GA, United States

Late Breakers in Basic Science/ Molecular Biology

Salon CD

Monday, November 5, 2007 7 p.m. - 9 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 handout in your registration packet for the presentation schedule.

CHAIR

Stefan Kappe
Seattle Biomedical Research Institute, Seattle, WA, United States

Rebeca Rico-Hesse
Southwest Foundation for Biomedical Research, San Antonio, TX, United States

Tuesday, November 6**Registration**

Grand Ballroom Foyer

Tuesday, November 6, 2007 7 a.m. - 5 p.m.

Cyber Cafe

Franklin Hall Foyer

Tuesday, November 6, 2007 7 a.m. - 5 p.m.

Speaker Ready Room

Rooms 413-415

Tuesday, November 6, 2007 7 a.m. - 6 p.m.

Education Committee Meeting

Room 306

Tuesday, November 6, 2007 7 a.m. - 8 a.m.

ASTMH Journal Editorial Board Meeting

Room 309

Tuesday, November 6, 2007 7 a.m. - 8 a.m.

Clinical Group Past Presidents Meeting

Room 410

Tuesday, November 6, 2007 7 a.m. - 8 a.m.

Press Room

Rooms 403-404

Tuesday, November 6, 2007 7:30 a.m. - 6:30 p.m.

Symposium 54

Patients Benefit from Artemether/Lumefantrine Community Deployment

Supported with funding from Novartis Pharma AG.

Salon AB

Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.

Artemether/lumefantrine is the first fixed-dose artemisinin combination therapy which was approved by stringent regulatory authorities as early as 1999. Since 2001 over 130 million treatment courses were supplied to the public sector of malaria endemic developing countries. Twenty-eight countries have adopted artemether/lumefantrine as first-line treatment. There is mounting evidence of significant morbidity and mortality reduction when this ACT is included in malaria control programmes. Encouraging successes from several African nations are reported and provide proof that rolling back malaria and saving lives is an achievable goal.

CHAIR

Ambrose Talisuna

Ministry of Health, Kampala, Uganda

8 a.m.

CHANGES IN INPATIENT PEDIATRIC MALARIA CASE LOAD AT MACHA HOSPITAL AFTER THE INTRODUCTION OF ARTEMETHER/LUMEFANTRINE IN A RURAL ZAMBIAN COMMUNITY

Philip Thuma

Malaria Institute at Macha, Choma, Zambia

8:20 a.m.

COMMUNITY DEPLOYMENT OF ARTEMETHER/LUMEFANTRINE WITH RAPID DIAGNOSTIC TESTS (RDTs) IN TIGRAY, ETHIOPIA

Asefaw Getachew

Tigray Health Bureau, Tigray, Ethiopia

8:40 a.m.

LONG-TERM FOLLOW UP OF THE SOUTH AFRICAN MALARIA CONTROL INTERVENTIONS

Charlotte Muheki Zikusooka

HealthNet Consult, Kampala, Uganda

9 a.m.

THE EVALUATION OF ARTEMETHER/LUMEFANTRINE IMPLEMENTATION IN TANZANIA (ALIVE PROJECT): KEY ISSUES AND FIRST RESULTS

Blaise Genton

Ifakara Health Research and Development Center, Dar Es Salaam, United Republic of Tanzania

9:25 a.m.

QUESTION AND ANSWER PERIOD

Ambrose Talisuna

Ministry of Health, Kampala, Uganda

Symposium 55

Signals and Signaling in Malaria: Insights from the Burroughs Wellcome Fund New Initiatives in Malaria Awardees

Supported with funding from The Burroughs Wellcome Fund

Salon CD

Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.

This session will highlight the work of four research groups that are interested in understanding the signs that tell plasmodia about the environment within and outside the host, and the signaling processes that coordinate the parasite's complex group of regulatory and developmental decisions. All four groups are awardees from the Burroughs Wellcome Fund's New Initiatives in Malaria program.

CHAIR

Victoria P. McGovern

Burroughs Wellcome Fund, Research Triangle Park, NC, United States

8 a.m.

SECRETORY TARGETING SIGNALS IN PLASMODIA

Kasturi Haldar

Northwestern University, Chicago, IL, United States

8:30 a.m.

ROLE OF NFKB IN RESISTANCE TO MALARIA

Chris Hunter

University of Pennsylvania, Philadelphia, PA, United States

8:55 a.m.

SIGNAL TRANSDUCTION IN MALARIA

Sailen Barik

University of South Alabama, Mobile, AL, United States

9:20 a.m.

ACIDOCALCISOMES IN PLASMODIUM

Roberto Docampo

University of Georgia, Athens, GA, United States

Symposium 56

Serum Proteomics for Transfusion-Transmissible Protozoa: Successes and Ongoing Challenges

Salon E

Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.

The symposium will focus on recent work exploring serum proteomics for a range of transfusion-transmissible protozoa including Chagas disease, babesiosis, visceral leishmaniasis and human African trypanosomiasis.

CHAIR

Brian J. Ward

McGill University, Montreal, QC, Canada

Momar Ndao

National Reference Centre for Parasitology, Montreal, QC, Canada

8 a.m.

USING SERUM PROTEOMICS TO STUDY CHAGAS DISEASE

Momar Ndao

National Reference Centre for Parasitology, Montreal, QC, Canada

8:20 a.m.

PROTEOMICS-BASED TESTING FOR ACUTE BABESIOSIS

Peter J. Krause

University of Connecticut School of Medicine, Hartford, CT, United States

8:35 a.m.

CAN SERUM PROTEOMICS BE USED TO ASSESS CUTANEOUS LEISHMANIASIS

Naomi E. Aronson

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

8:50 a.m.

CAN SERUM PROTEOMICS BE USED TO SCREEN BLOOD?

David Leiby

American Red Cross, Rockville, MD, United States

9:05 a.m.

SERUM PROTEOMICS FOR AFRICAN TRYPANOSOMIASIS

Philippe Büscher

Tropical Medicine Institute, Antwerp, Belgium

9:20 a.m.

DISCUSSION

Brian J. Ward

Infectious Diseases, McGill University, Montreal, QC, Canada

Momar Ndao

National Reference Centre for Parasitology, Montreal, QC, Canada

Scientific Session 57

Flavivirus III - Dengue III

Salon F

Tuesday, November 6, 2007

8 a.m. - 9:45 a.m.

CHAIR

Anna P. Durbin

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

Wellington Sun

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

8 a.m.

344

SAFETY AND INFECTIVITY OF TETRAVALENT CHIMERIC LIVE ATTENUATED DENGUE VACCINE IN DIFFERENT AGE POPULATIONS IN ENDEMIC AND NON-ENDEMIC AREAS

Dennis Morrison¹, Maria Rosario Capeding², Jorge Luis Poo³, Remi Forrat⁴, Betzana Zambrano⁵, Anh Wartel-Tram⁶, Rafaele Dumas⁴, Jean Lang⁴

¹Bio-Kinetic Clinical Applications, Springfield, MO, United States,

²Research Institute for Tropical Health, Muntinlupa City, Philippines,

³Centro de Investigacion Farmacologica y Biotecnologica, Mexico City,

Mexico, ⁴sanofi pasteur Research and Development Department, Marcy

l'Etoile, France, ⁵sanofi pasteur, Montevideo, Uruguay, ⁶sanofi pasteur,

Ho Chi Minh City, Vietnam

8:15 a.m.

345

TETRAVALENT DENGUE VACCINE BASED ON COMPLEX ADENOVIRUS VECTORS PROTECTS RHESUS MONKEYS AGAINST CHALLENGE FROM ALL FOUR DENGUE SEROTYPES

Kanakatte Raviprakash¹, John Dong², Dan Ewing¹, Karla Block¹, Danher Wang², David Holman², Lan Chen¹, Jan Woraratanadharm², Kevin Porter¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Genphar Inc, Mount Pleasant, SC, United States

8:30 a.m.

346

IMPROVED IMMUNOGENICITY AND PROTECTION OF TETRAVALENT DENGUE VACCINES USING A PRIME-BOOST STRATEGY IN NON-HUMAN PRIMATES

Monika Simmons¹, Michelle Ward¹, Kevin Porter¹, Curtis Hayes¹, Wellington Sun², Robert Putnak³

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Centers for Disease Control and Prevention, San Juan, PR, United States, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States

8:45 a.m.

347

PHASE I STUDY OF THE SAFETY AND IMMUNOGENICITY OF RDN4Δ30-200,201 A LIVE ATTENUATED VIRUS VACCINE CANDIDATE FOR DENGUE SEROTYPE 4

Anna P. Durbin¹, Julie H. McArthur¹, Jennifer Marron¹, Kimberli Wanionek¹, Bhavin Thumar¹, Joseph E. Blaney², Brian R. Murphy², Stephen S. Whitehead²

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Laboratory of Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

9 a.m.

348

PREVALENCE OF DENGUE VIRUS NUCLEIC ACID IN BLOOD PRODUCTS DONATED IN PUERTO RICOHamish Mohammed¹, Susan Stramer², Kay Tomashek¹, Jorge Muñoz¹, Jeff Linnen³, Lyle Petersen⁴¹Dengue Branch, San Juan, Puerto Rico, ²American Red Cross, Gaithersburg, MD, United States, ³Gen-Probe Incorporated, San Diego, CA, United States, ⁴Division of Vector-Borne Infectious Diseases, Centers for Disease Control and Prevention, Ft. Collins, CO, United States

9:15 a.m.

349

THE IMPACT OF INTERACTION BETWEEN SEROTYPES, AGE STRUCTURE AND SEASONALITY ON THE TRANSMISSION DYNAMICS OF DENGUE: A FOUR SEROTYPE MODELLaurent Coudeville¹, Geoff Garnett², Christl Donnelly², David Welch³, Christine Luxemburger¹¹Sanofi Pasteur, Lyon, France, ²Imperial College, Infectious Disease Epidemiology, London, United Kingdom, ³Imperial College, Epidemiology and Public Health, London, United Kingdom

9:30 a.m.

350

ANNUAL TARGETED LARVICIDING CAMPAIGNS IN CAMBODIA AGAINST THE DENGUE VECTOR *Aedes Aegypti*: ARE THEY COST-EFFECTIVE?Jose A. Suaya¹, Donald S. Shepard¹, Moh-Seng Chang², Mariana Caram¹, Duong Socheat³, Michael B. Nathan⁴¹Heller School, Brandeis University, Waltham, MA, United States, ²World Health Organization Representative Office, WHO, Phnom Penh, Cambodia, ³National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ⁴Department of Control of Neglected Tropical Diseases, WHO, Geneva, Switzerland**Symposium 58****Progress Towards Predicting and Preventing Outbreaks of Vector-Borne Disease Utilizing Satellite Remote Sensing Technology and Models**

Salon G

Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.

The symposium is designed to review and update progress in the effort to predict and prevent vector-borne disease using remote sensing parameters. The speakers will discuss models developed by NASA and their partners for application of the research results for improved prevention and prediction of outbreaks.

CHAIR

John Haynes

National Aeronautics and Space Administration, Washington, DC, United States

8 a.m.

REMOTE SENSING BASED MODELING AND SURVEILLANCE OF MALARIA

Richard Kiang

NASA Goddard Space Flight Center, Greenbelt, MD, United States

8:25 a.m.

EBOLA RIVER HEMORRHAGIC FEVER TRIGGER EVENTS AND SEARCHES FOR TRANSMISSION VECTORS

Compton Tucker

NASA Goddard Space Flight Center, Greenbelt, MD, United States

8:50 a.m.

BENCHMARKING THE INTEGRATION OF NASA EARTH SCIENCE RESULTS

Jorge E. Pinzon

NASA Goddard Space Flight Center, Greenbelt, MD, United States

9:15 a.m.

MALARIA EARLY WARNING SYSTEM (MEWS) - GETTING RESEARCH INTO POLICY AND PRACTICE: EXPERIENCE IN SOUTHERN AFRICA

Stephen Conner

IRI, Columbia University, Palisades, NY, United States

Scientific Session 59**Malaria - Diagnosis**

Salon H

Tuesday, November 6, 2007

8 a.m. - 9:45 a.m.

CHAIR

Christian Lengeler

Swiss Tropical Institute, Basel, Switzerland

Jacek Skarbinski

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

8 a.m.

337

MASSIVE OVER-DIAGNOSIS OF MALARIA IN SUB-SAHARAN AFRICA: TIME TO REVIEW BLANKET TREATMENT OF UNDERFIVESValerie D'Acremont¹, Christian Lengeler², Blaise Genton³¹Swiss Tropical Institute and DSM City Council City Medical Office of Health, Dar Es Salaam, United Republic of Tanzania, ²Swiss Tropical Institute, Basel, Switzerland, ³Swiss Tropical Institute and Ifakara Health Research and Development Center, Dar Es Salaam, United Republic of Tanzania

8:15 a.m.

338

MALARIA RAPID DIAGNOSTIC TEST USE AND PERFORMANCE BY FACILITY-BASED HEALTH WORKERS IN WESTERN KENYA

Alexandre Macedo de Oliveira¹, Jacek Skarbinski¹, Peter Ouma², Simon Kariuki³, John Barnwell¹, Kephias Otieno³, Phillip Onyona³, Louise Causer¹, Kayla Laserson², Willis Akhwale⁴, Laurence Slutsker¹, Mary Hamel²

¹Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Kenya Medical Research Institute/Centers for Disease Control and Prevention Research Station, Kisumu, Kenya, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴Division of Malaria Control, Ministry of Health, Nairobi, Kenya

8:30 a.m.

339

INTRODUCTION OF MALARIA RAPID DIAGNOSTIC TESTS, NEW GUIDELINES, AND ARTEMETHER-LUMEFANTRINE IN KENYA: A CLUSTER RANDOMIZED TRIAL

Jacek Skarbinski¹, Peter Ouma², Louise Causer¹, Simon Kariuki³, John Barnwell¹, Jane Alaii³, Alexandre Macedo de Oliveira¹, Dejan Zurovac⁴, Bruce A. Larson⁴, Robert W. Snow⁴, Alexander K. Rowe¹, Kayla Laserson², Willis Akhwale⁵, Laurence Slutsker¹, Mary Hamel²

¹Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Kenya Medical Research Institute/Centers for Disease Control and Prevention Research Station, Kisumu, Kenya, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴Malaria Public Health and Epidemiology Group, Centre for Geographic Medicine, Kenya Medical Research Institute/Wellcome Trust Research Programme, Nairobi, Kenya, ⁵Division of Malaria Control, Ministry of Health, Nairobi, Kenya

8:45 a.m.

340

COMPARISON OF MICROSCOPY, HRP2- AND PLDH-BASED RAPID DIAGNOSTIC TESTS FOR MALARIA AT SITES OF VARYING TRANSMISSION INTENSITY IN UGANDA

Heidi Hopkins¹, Wilson Kambale¹, Lisa Bebell², Christian Dokomajilar³, Sarah G. Staedke⁴, Moses R. Kanya⁵, Philip J. Rosenthal³, Grant Dorsey³

¹MU-University of California at San Francisco Malaria Research Collaboration, Kampala, Uganda, ²Columbia College of Physicians and Surgeons, New York, NY, United States, ³University of California, San Francisco, San Francisco, CA, United States, ⁴London School of Hygiene & Tropical Medicine, London, United Kingdom, ⁵Makerere University, Kampala, Uganda

9 a.m.

341

EVALUATION OF THE NEW MALARIA RAPID DIAGNOSTIC TEST FIRST RESPONSE® PF/PV, WHEN USED AS A SCREENING TOOL FOR MALARIA DURING PREGNANCY IN CENTRAL INDIA

P. P. Singh¹, R. Ahmed², M. P. Singh¹, D. J. Terlouw², F. O. ter Kuile², M. R. Desai³, V. Udhayakumar³, A. P. Dash⁴, N. Singh¹

¹National Institute of Malaria Research, Jabalpur, India, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴National Institute of Malaria Research, Delhi, India

9:15 a.m.

342

CHALLENGES IN ROUTINE IMPLEMENTATION AND QUALITY CONTROL OF RAPID DIAGNOSTIC TESTS FOR MALARIA - RUFJI DISTRICT, TANZANIA

Meredith McMorro¹, Irene Masanja², S. Patrick Kachur¹, Salim M. Abdulla²

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Ifakara Health Research and Development Centre, Ifakara, United Republic of Tanzania

9:30 a.m.

343

MODELLING COSTS AND BENEFITS OF RDTs FOR THE DETECTION OF *P. FALCIPARUM* IN UGANDA

Yoel Lubell¹, Heidi Hopkins², Chirstopher Whitty¹, Sarah Staedke¹, Anne Mills¹

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²University of California at San Francisco, San Francisco, CA, United States

Symposium 60**Beyond Alma Ata: The Promise of Rural Secondary Health Care**

Salon II

Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.

2008 is the 30th anniversary of the signing of the Alma Ata Declaration that launched the global commitment to "Health for All by the Year 2000". While substantive improvements in health have occurred as a result of the Declaration, many areas of the world are still struggling to achieve basic, sustainable health care. This symposium will argue that, in some circumstances, "Health for All" can be best achieved through community-based secondary health care. Following introductory comments by the chair, speakers will first describe how a small NGO (Saludesa) in rural Ecuador, over time, brought together diverse partners in a community of 70,000 to create a new health center and a 15-bed hospital that delivers quality secondary health care while serving as a base for expanded, more effective primary care services. Having gradually achieved full cost-recovery and strong support from a range of stakeholders, the current challenge, in partnership with the Ecuadorian MOH, is to determine the degree to which this model can be replicated within the public sector. With the 30th anniversary of the Alma Ata Proclamation of "Health for All by 2000" approaching, the final speaker will explore the challenges of translating into the public sector "lessons learned" by an entrepreneurial small NGO and the potential of secondary health care strategies in finally achieving the vision of Alma Ata.

CHAIR

Barnett L. Cline

Tulane University, Blanco, TX, United States

Michele Barry

Yale University School of Medicine, New Haven, CT, United States

8 a.m.

INTRODUCTION

Barnett Cline

Tulane University, Blanco, TX, United States

Detailed Program

8:10 a.m.

PEDRO VICENTE MALDONADO (PVM): THE FIRST TEN YEARS

David Gaus

Andean Health and Development (Saludesa in Ecuador), New Berlin, WI, United States

8:35 a.m.

TRANSLATING THE PVM MODEL TO THE PUBLIC SECTOR: WHY IT MATTERS

Michael Heisler

Emory University School of Medicine, Atlanta, GA, United States

9 a.m.

IS THERE A ROLE FOR SECONDARY HEALTH CARE IN ACHIEVING THE VISION OF ALMA ATA?

Cynthia Haq

University of Wisconsin, Madison, WI, United States

9:25 a.m.

OPEN DISCUSSION

Symposium 61

Leishmaniasis: Field Studies and Treatment Trials

Salon KL

Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.

This symposium will focus on field studies and therapeutics of leishmaniasis. Talks will address the epidemiology, clinical outcome and treatment of leishmaniasis. An update on the management of leishmaniasis in settings of increasing report of antimonial failure will be discussed.

CHAIR

Selma M. Jeronimo

Universidade Federal do Rio Grande do Norte, Natal, Brazil

Mary E. Wilson

University of Iowa, Iowa City, IA, United States

8 a.m.

CURRENT ISSUES OF CUTANEOUS LEISHMANIASIS IN COLOMBIA

Isabel Rodriguez

Centro Internacional de Entrenamiento e Investigaciones Médicas, Cali, Colombia

8:25 a.m.

IMMUNOMODULATORS ASSOCIATED WITH ANTIMONY THERAPY IN THE TREATMENT OF CUTANEOUS AND MUCOSAL LEISHMANIASIS

Edgar Marcelino Carvalho

Universidade Federal da Bahia, Salvador, Brazil

8:50 a.m.

MANAGEMENT OF VISCERAL LEISHMANIASIS IN INDIA

Shyam Sundar

Banaras Hindu University, Varanasi, India

9:15 a.m.

NATURAL HISTORY OF LEISHMANIA CHAGASI INFECTION IN BRAZIL

Selma M. Jeronimo

Universidade Federal do Rio Grande do Norte, Natal, Brazil

Scientific Session 62

Clinical Tropical Medicine I

Liberty AB

Tuesday, November 6, 2007

8 a.m. - 9:45 a.m.

CHAIR

Ric Price

Menzies School of Health Research, Darwin, Australia

Anna M. Checkley

Hospital for Tropical Diseases, London, United Kingdom

8 a.m.

351

CLINICAL DIAGNOSIS OF UNCOMPLICATED MALARIA IN OLDER CHILDREN AND ADULTS IN KENYA: AN EVIDENCE BASE FOR NEWLY INTRODUCED GUIDELINES

Peter Ouma¹, Jacek Skarbinski², Dejan Zurovac³, Willis Akhwale⁴, Kayla Laserson¹, Laurence Slutsker², Mary Hamel¹

¹Kenya Medical Research Institute/Centers for Disease Control and Prevention Research Station, Kisumu, Kenya, ²Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Malaria Public Health and Epidemiology Group, Centre for Geographic Medicine, Kenya Medical Research Institute/Wellcome Trust Research Programme, Nairobi, Kenya, ⁴Division of Malaria Control, Ministry of Health, Nairobi, Kenya

8:15 a.m.

353

CLINICAL PRESENTATION OF SEVERE MALARIAL ANEMIA IN KENYAN CHILDREN

Enrico M. Novelli¹, Gregory C. Davenport¹, Amos K'Ogal Omondi², Oscar Amos Odunga², John Michael Ong'echa², Tom Were², Collins Ouma², Richard Otieno², James B. Hittner³, Stephen Obaro¹, Douglas J. Perkins¹

¹University of Pittsburgh, Pittsburgh, PA, United States, ²University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ³College of Charleston, Charleston, SC, United States

8:30 a.m.

354

P. VIVAX INFECTION: A MAJOR DETERMINANT OF SEVERE ANAEMIA IN PAPUA, INDONESIA

R.N. Price¹, E. Tjitra², M. Karyana², N.M. Warikar³, E. Kenangalem⁴, D.A. Lampah³, P. Sugiarto⁵, N.M. Anstey¹

¹Menzies School of Health Research, Darwin, Australia, ²National Institute of Health Research and Development, Jakarta, Indonesia, ³International Health Program, Timika, Indonesia, ⁴District Health Authority, Timika, Indonesia, ⁵Mitra Masyarakat Hospital, Timika, Indonesia

8:45 a.m.

355

AN ASSESSMENT OF THE MANAGEMENT OF SEVERE MALARIA IN ZAMBIAN HEALTH FACILITIES

Pascalina Chanda¹, James Chipeta², Mutale Chimutete³, Micky Ndhlovu⁴, Charles Msiska⁵, Mabvuto Kango⁶, Abel Kabalo⁷, Busiku Hamainza¹, Pauline Wamulume¹, Allison C. Kennedy⁸

¹National Malaria Control Centre, Lusaka, Zambia, ²University Teaching Hospital, Paediatrics Department, Lusaka, Zambia, ³Gwembe District Office, Gwembe, Zambia, ⁴Chainama Hills College Hospital, Lusaka, Zambia, ⁵Chongwe District Health Office, Chongwe, Zambia, ⁶Ministry of Health, Lusaka, Zambia, ⁷Kabwe District Office, Kabwe, Zambia, ⁸Monze District Office, Monze, Zambia

9 a.m.

356

WHY DOES IMPORTED MALARIA STILL KILL? TWENTY YEARS OF MALARIA DEATHS IN THE UNITED KINGDOM

Anna M. Checkley¹, Adrian D. Smith², Marie Blaze³, Valerie Smith³, Peter L. Chiodini³, Christopher J. Whitty³

¹Hospital for Tropical Diseases, London, United Kingdom, ²Department of Public Health, University of Oxford, Oxford, United Kingdom, ³Malaria Reference Laboratory, London, United Kingdom

9:15 a.m.

357

CLINICAL DEVELOPMENT OF NEW PROPHYLACTIC ANTI-MALARIAL DRUGS AFTER THE FIFTH AMENDMENT TO THE DECLARATION OF HELSINKI

Geoffrey S. Dow, Alan Magill, Wil Milhous, Colin Ohrt

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

Scientific Session 63**Filariasis I - Epidemiology/Molecular Biology**

Liberty C

Tuesday, November 6, 2007
8 a.m. - 9:45 a.m.

CHAIR

Maged El-Setouhy

Ain Shams University, Cairo, Egypt

Sandra Laney

Smith College, Northampton, MA, United States

8 a.m.

358

FAMILIAL AGGREGATION OF ACUTE LYMPHATIC FILARIASIS IN PAPUA NEW GUINEA

Daniel J. Tisch¹, Edsel Salvana², Will Kastens¹, Moses Bockarie¹, Neal Alexander³, James W. Kazura¹

¹Case Western Reserve University, Cleveland, OH, United States, ²University Hospitals, Cleveland, OH, United States, ³London School of Tropical Medicine and Hygiene, London, United Kingdom

8:15 a.m.

359

A RAPID HEALTH IMPACT ASSESSMENT OF THE AFRICAN PROGRAMME FOR ONCHOCERCIASIS CONTROL (APOC)

Wilma A. Stolk, Lennert J. Veerman, Sake J. de Vlas, J. Dik Habbema

Department of Public Health, Erasmus MC, Rotterdam, The Netherlands

8:30 a.m.

360

HAS EGYPT ELIMINATED LYMPHATIC FILARIASIS?

Reda M. Ramzy¹, Maged El Setouhy¹, Hanan Helmy¹, Hoda A. Farid¹, Adel M. Gad¹, Gary J. Weil²

¹Research and Training Center on Vectors of Disease, Ain Shams University, Cairo, Egypt, ²Infectious Diseases Division, Washington University School of Medicine, St. Louis, MO, United States

8:45 a.m.

361

GRAVID TRAP COLLECTIONS OF CULEX PIPIENS FOR MOLECULAR XENOMONITORING NATIONAL PROGRAMS FOR ELIMINATION OF LYMPHATIC FILARIASIS

Adel M. Gad¹, Reda M. Ramzy¹, Hanan Helmy¹, Ragaa E. Hammad¹, Zakariya S. Morsy¹, Sherin A. Kamal¹, Mohamed F. Salam¹, Maged El Setouhy¹, Gary J. Weil², Hoda A. Farid¹

¹Research and Training Center on Vectors of Diseases, Ain Shams University, Cairo, Egypt, ²Washington University School of Medicine, St. Louis, MO, United States

9 a.m.

362

DIFFERENTIAL EUKARYOTIC GENE EXPRESSION IN ONCHOCERCA VOLVULUS (WITH A WOLBACHIA ENDOSYMBIONT) AND O. FLEXUOSA (WOLBACHIA NEGATIVE)

Peter Fischer¹, Norbert W. Brattig², Samantha N. Piper¹, Kerstin Fischer¹, Seth D. Crosby¹, Makedonka Mitreva¹, Michael Heinz¹, Yin Yong¹, Gary J. Weil¹

¹Washington University School of Medicine, St. Louis, MO, United States, ²Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

9:15 a.m.**363****CIS ACTING ELEMENTS NECESSARY FOR TRANS-SPLICING IN TRANSIENTLY TRANSFECTED *BRUGIA MALAYI***Ana de Oliveira, Canhui Liu, Tarig B. Higazi, **Thomas R. Unnasch**
University of Alabama at Birmingham, Birmingham, AL, United States

(ACMCIP Abstract)

9:30 a.m.**QUESTION AND ANSWER PERIOD OR LATE BREAKER ABSTRACT PRESENTATION****Symposium 64****Immuno-Regulation of Parasitic Infections in the Gut***Franklin 1***Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.**

There is an increasing appreciation for the unique properties of immunity generated at mucosal sites. The gastrointestinal tract is in constant contact with food proteins, commensal bacteria and potentially pathogenic microorganisms. In order to maintain immune homeostasis in this environment, the intestinal immune system has evolved multiple regulatory strategies, including various populations of regulatory T cells and specialized subset of dendritic cells or macrophages. Orally ingested parasites are primarily exposed to this unique immunological system and benefit from it in order to favor their survival and transmission. Therefore, in the design of new therapeutic strategies or vaccines, it is necessary to consider the endogenous regulatory mechanisms that are operating in the gut. This session will highlight new studies that are extending our understanding of how immunity and inflammation are regulated following exposure to gastrointestinal parasites.

CHAIRDavid Artis
*University of Pennsylvania, Philadelphia, PA, United States*Yasmine Belkaid
*National Institutes of Health, Bethesda, MD, United States***8 a.m.****REGULATORY T CELL FUNCTION IN THE GUT**Yasmine Belkaid
*National Institutes of Health, National Institute of Allergy and Infectious Diseases, Maryland, MD, United States***8:30 a.m.****IL-10-MEDIATED REGULATION OF INTESTINAL AMEBIASIS**Eric Houpt
*University of Virginia, Charlottesville, VA, United States***8:55 a.m.****EPITHELIAL CELL-DENDRITIC CELL CROSS-TALK REGULATES INTESTINAL IMMUNITY AND INFLAMMATION**David Artis
*University of Pennsylvania, Philadelphia, PA, United States***9:20 a.m.****CHARACTERIZING EFFECTOR CELLS AT THE HOST: PARASITE INTERFACE**William Gause
*University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Newark, NJ, United States***Symposium 65****Costing Large-Scale Vector Control Programmes in Sub-Saharan Africa***Franklin 2***Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.**

A vigorous debate is currently going on about the best way to provide large-scale vector control in Sub-Saharan Africa. Unfortunately, little of this has been based on solid standardized evidence. This symposium presents a substantial new body of data on costs and operational implications of large-scale vector control interventions using (1) Insecticide-Treated Nets (ITNs) or (2) Indoor Residual Spraying (IRS). Case studies will also provide cost-effectiveness (CE) estimates. The aim of the session will be to critically review these standardized findings and to discuss their implications for the planning of national-scale vector control programmes in sub-Saharan Africa.

CHAIRChristian Lengeler
*Swiss Tropical Institute, Basel, Switzerland*Kara Hanson
*London School of Hygiene and Tropical Medicine, London, United Kingdom***8 a.m.****INTRODUCTION**Christian Lengeler
*Swiss Tropical Institute, Basel, Switzerland***8:20 a.m.****COSTING ASSESSMENTS - AN OVERVIEW**Kara Hanson
*London School of Hygiene and Tropical Medicine, London, United Kingdom***8:40 a.m.****COSTING INTEGRATED VECTOR CONTROL ON BOKO ISLAND (EQUATORIAL GUINEA)**Chris Schwabe
*Medical Care and Development International, Silver Spring, MD, United States***9 a.m.****COSTING RECENT IRS PROGRAMMES IN SUB-SAHARAN AFRICA**Eugene Brandly
Research Triangle International, Washington, DC, United States

9:20 a.m.

COMPARATIVE COSTS AND COST-EFFECTIVENESS OF FIVE NATIONAL ITN PROGRAMMES AND TWO LARGE IRS PROGRAMMES

Joshua Yukich
Swiss Tropical Institute, Basel, Switzerland

Symposium 66

Advances in Operational Research on Schistosomiasis

Franklin 314

Tuesday, November 6, 2007 8 a.m. - 9:45 a.m.

In 206, the Schistosomiasis Research Program at the DBL-Center for Health Research and Development awarded funds to support operational research addressing schistosomiasis in endemic African countries. This was part of a broad effort to develop the basis for sustained schistosomiasis control and evidence for policy decisions at the national and international level. This symposium will share the results of some of the funded projects. The presentations will address the issue of anemia due to schistosomiasis in school-aged African children, the benefits of iron supplementation in helminth control programs, evaluation of urine based diagnosis of *S. mansoni*, and assessment of the cost effectiveness of a national schistosomiasis control program.

CHAIR

Gitte Rohde
The Schistosomiasis Research Program, Charlottenlund, Denmark

Alan Fenwick
The Schistosomiasis Control Initiative, London, United Kingdom

8 a.m.

INTRODUCTION

Alan Fenwick
Imperial College London, London, United Kingdom

8:15 a.m.

ASSESSMENT OF ANEMIA ATTRIBUTABLE TO SCHISTOSOMIASIS

Diana Karanja
Kenya Medical Research Institute, Kisumu, Kenya

8:40 a.m.

EVALUATION OF APPLICABILITY OF URINE BASED SCHISTOSOMIASIS TEST STRIP IN THE EPIDEMIOLOGICAL MAPPING AND SAMPLING OF *S. MANSONI* INFECTION IN LOW ENDEMIC AREAS OF KENYA

Jimmy Kihara
Ministry of Health, Nairobi, Kenya

9:05 a.m.

IRON SUPPLEMENTATION IN SCHISTOSOMIASIS AND SOIL TRANSMITTED HELMINTHS CONTROL PROGRAM IN ZAMBIA

Victor Mwanakasale
Tropical Diseases Research Centre, Ndola, Zambia

9:30 a.m.

COST EFFECTIVENESS, INTEGRATION AND SUSTAINABILITY OF SCHISTOSOMIASIS CONTROL IN UGANDA

Narcis Kabatereine
Ministry of Health, Kampala, Uganda

Exhibit Hall Open

Franklin Hall B

Tuesday, November 6, 2007 9:30 a.m. - 10:30 a.m.

Coffee Break

Franklin Hall B

Tuesday, November 6, 2007 9:45 a.m. - 10:15 a.m.

Poster Session B Set-Up

Franklin Hall B

Tuesday, November 6, 2007
9:45 a.m. - 10:15 a.m.

Poster Session B Viewing

Franklin Hall B

Tuesday, November 6, 2007
10:15 a.m. - Noon

Scientific Session 67

Malaria - Molecular Biology

Salon AB

Tuesday, November 6, 2007
10:15 a.m. - Noon

CHAIR

Ahmed S. Aly
Seattle Biomedical Research Institute, Seattle, WA, United States

Heather J. Painter
Drexel University College of Medicine, Philadelphia, PA, United States

10:15 a.m.

364

PLASMODIUM SPOOROZOITES LACKING AN ASPARAGINE RICH PROTEIN FAIL TO ESTABLISH LIVER STAGE INFECTION AND ELICIT STERILE IMMUNITY AGAINST MALARIA

Ahmed S. Aly, Stefan H. Kappe
Seattle Biomedical Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

Tuesday, November 6

10:30 a.m.

365

TO LIVE OR DIE: INVESTIGATING THE ROLE OF *PLASMODIUM FALCIPARUM* MITOCHONDRIA IN THE FACE OF ELECTRON TRANSPORT INHIBITION

Heather J. Painter, Joanne M. Morrissey, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

(ACMCIP Abstract)

10:45 a.m.

366

CHARACTERIZATION OF MOLECULAR EVENTS OF AUTOPHAGY IN *PLASMODIUM FALCIPARUM*

Mayumi Akaki, Timothy G. Schneider, Theodore F. Taraschi
Thomas Jefferson University, Philadelphia, PA, United States

11 a.m.

367

HOST LIPOATE IS REQUIRED FOR MALARIA SURVIVAL

Sean T. Prigge, Marina Allary, Jeff Lu, Liquan Zhu
Johns Hopkins School of Public Health, Baltimore, MD, United States

(ACMCIP Abstract)

11:15 a.m.

368

GENOTYPING ANALYSIS OF *P. FALCIPARUM* REVEALS GREATER GENETIC DIVERSITY IN SENEGAL COMPARED TO THAILAND AND POPULATION DIFFERENCES ENRICHED FOR AMINO ACID SUBSTITUTIONS

Sarah K. Volkman¹, Daniel E. Neafsey², Pardis C. Sabeti², Daniel J. Park², Stephen J. Schaffner², Danny A. Milner¹, Amanda Lukens¹, Phil Montgomery², Casey Gates², Nathan Houde², Johanna P. Daily¹, Ousmane Sarr³, Doua Ndiaye³, Soulyemane Mboup³, Roger Wiegand², Daniel L. Hartl⁴, Bruce W. Birren², James E. Galagan², Eric S. Lander², Dyann F. Wirth¹

¹Harvard School of Public Health, Boston, MA, United States, ²Broad Institute of MIT and Harvard, Cambridge, MA, United States, ³Cheikh Anta Diop University, Dakar, Senegal, ⁴Harvard University, Cambridge, MA, United States

(ACMCIP Abstract)

11:30 a.m.

369

DISTINCT PHYSIOLOGICAL STATES OF THE PARASITE *PLASMODIUM FALCIPARUM* IN MALARIA INFECTED PATIENTS

Johanna P. Daily¹, Dan Scandfeld², Nathalie Pochet², Karine Le Roch³, David Plouffe⁴, Michael Kamal², Ousmane Sarr⁵, Souelyman Mboup⁵, Omar Ndir⁵, David Wypij¹, Kathryn Levasseur¹, Elizabeth Thomas², Pablo Tamayo², Carolyn Dong¹, Yingyao Zhou⁴, Eric Lander², Daouda Ndiaye⁵, Elizabeth Winzeler⁶, Jill Mesirov², Aviv Regev²

¹Harvard School of Public Health, Boston, MA, United States, ²Broad Institute of Harvard and MIT, Cambridge, MA, United States, ³University of California, Riverside, CA, United States, ⁴Genomics Institute of Novartis Research Foundation, San Diego, CA, United States, ⁵Cheikh Anta Diop University, Dakar, Senegal, ⁶Scripps Institute, La Jolla, CA, United States

11:45 a.m.

370

COMPREHENSIVE PROTEOMIC ANALYSIS OF ZYGOTE AND OOKINETE STAGES OF AVIAN *PLASMODIUM* REVEALS ORTHOLOGS OF THE UNKNOWN EARLY MOSQUITO STAGES OF *PLASMODIUM FALCIPARUM*

Kailash P. Patra¹, Greg T. Cantin², Jeff R. Johnson², John R. Yates², Joseph M. Vinetz¹

¹Department of Medicine, University of California San Diego, La Jolla, CA, United States, ²The Scripps Research Institute, Department of Cell Biology, La Jolla, CA, United States

Symposium 68**Global Health Symposium on Tropical Medicine**

Supported with funding from the Bill and Melinda Gates Foundation

Salon CD

Tuesday, November 6, 2007 10:15 a.m. – Noon

This symposium features young investigators from Cameroon, Kenya and Uganda who have received travel awards to present their work on malaria at the annual meeting.

CHAIR

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

Regina Rabinovich

Bill and Melinda Gates Foundation, Seattle, WA, United States

10:15 a.m.

INTRODUCTION

Regina Rabinovich
Bill and Melinda Gates Foundation, Seattle, WA, United States

10:30 a.m.

865

INCREASED TOLERANCE TO PYRETHROIDS IN ANOPHELES ARABIENSIS DURING COTTON SPRAYING IN NORTH CAMEROON: EVIDENCE FOR CONSTITUTIVE OVER-EXPRESSION OF ANTIOXIDANT DEFENSES

Mouhamadou S. Chouaibou¹, Pie Müller², Josiane Etang³, Martin Donnelly², Hilary Ranson², Frédéric Simard⁴

¹Organisation de Coordination pour la lutte contre les Endémies en Afrique Centrale (OCEAC), Université de Yaoundé I (UYI), Institut de Recherche pour le développement (IRD), Yaoundé, Cameroon, ²Liverpool School of Tropical Medicine and Hygiene, Liverpool, United Kingdom, ³Organisation de Coordination pour la lutte contre les Endémies en Afrique Centrale (OCEAC), Yaoundé, Cameroon, ⁴IRDI/UR016, Montpellier, France; Organisation de Coordination pour la lutte contre les Endémies en Afrique Centrale (OCEAC), Yaoundé, Cameroon

10:45 a.m.

1035

SPATIAL MODELLING OF HABITAT SUITABILITY, DISTRIBUTION, AND RELATIVE ABUNDANCE OF SPECIES AND MOLECULAR FORMS OF THE ANOPHELES GAMBIAE COMPLEX IN CAMEROONColince D. Kamdem¹, Joachim Etouna², Kenji Ose³, Diego Ayala⁴, Nora J. Besansky⁵, Didier Fontenille⁴, Carlo Costantini⁶, Frédéric Simard⁷¹Organisation de Coordination pour la lutte Contre les Endémies en Afrique Centrale (OCEAC) and University of Yaounde I, Yaounde, Cameroon,²Institut National de Cartographie (INC), Yaounde, Cameroon, ³Institut de Recherche pour le Développement (IRD), US140, Orleans, France, ⁴Institut de Recherche pour le Développement (IRD), UR016, Montpellier, France,⁵Department Biological Sciences, University Notre Dame, Notre Dame, IN, United States, ⁶Institut de Recherche pour le Développement (IRD)-UR016; and Institut de Recherche en Sciences de la Santé (IRSS), Bobo-Dioulasso, Burkina Faso, ⁷Institut de Recherche pour le Développement (IRD)-UR016, and Organisation de Coordination pour la lutte Contre les Endémies en Afrique Centrale (OCEAC), Yaounde, Cameroon

11 a.m.

1026

DISCRIMINATIVE FEEDING BEHAVIOR OF ANOPHELES GAMBIAE S.S ON DIFFERENT PLANT SPECIES AND EFFECTS ON ITS SURVIVAL, FECUNDITY, AND VECTOR COMPETENCE IN A MALARIA ENDEMIC AREA OF WESTERN KENYAHortance Manda¹, Louis C. Gouagna², Ephantus W. Kabiru³, Woodbridge A. Foster⁴, John C. Beier⁵, Ahmed Hassanali¹, John I. Githure¹¹International Centre of Insect Physiology and Ecology, Nairobi, Kenya,²Institut de Recherche pour le Développement (IRD), Ouagadougou, Burkina Faso, ³Department of Pathology, Kenyatta University, Nairobi, Kenya,⁴Department of Entomology, The Ohio State University, Columbus, OH, United States, ⁵Department of Epidemiology and Public Health, University of Miami, Miami, FL, United States

11:15 a.m.

694

ROLE OF IL-10 AND HEMOZOIN IN REGULATING IL-12 AND IL-17 PATHWAYS IN KENYAN CHILDREN WITH SEVERE MALARIAL ANEMIAJohn Michael Ong'echa¹, Gregory Davenport², Yamo Ouma¹, James Hittner³, Tom Were¹, Collins Ouma¹, Richard Otieno¹, Christopher Keller⁴, John Vulule⁵, Gordon Awandare², Douglas Perkins²¹University of Pittsburgh/KEMRI, Kisumu, Kenya, ²University of Pittsburgh, Pittsburgh, PA, United States, ³College of Charleston, Charleston, SC, United States, ⁴University of Pittsburgh/Lake Erie College of Osteopathic Medicine, Pittsburgh, PA, United States, ⁵KEMRI, Kisumu, Kenya

11:30 a.m.

352

PREDICTORS OF ANTICONVULSANT TREATMENT FAILURE AMONG CHILDREN WITH SEVERE MALARIAArthur Mpimbaza¹, Sarah Staedke², Grace Ndeezi¹, Justus Byarugaba¹, Philip J. Rosenthal³¹Makerere University, Kampala, Uganda, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³University of California San Francisco, San Francisco, CA, United States

11:45 a.m.

PANEL DISCUSSION

Symposium 69**Implementation of a New ACT in African Endemic Countries: Opportunities and Challenges for Documenting Safety and Effectiveness in the Field****Supported with funding from sanofi aventis
Organizational support provided by DNDi**

Salon E

Tuesday, November 6, 2007 10:15 a.m. - Noon

The launch of a new drug, such as a new Artemisinin-based Combination Therapy (ACT), requires monitoring of its safety and efficacy in "real life" conditions, to detect issues that could not be identified during clinical development studies. In most African countries, pharmacovigilance systems are absent, nascent or poorly functional. The symposium will discuss innovative ways to gather good quality safety and effectiveness data on new ACTs, and how these initiatives can help build, over time, effective pharmacovigilance systems across Africa.

CHAIR

Wilfred F. Mbacham

University of Yaoundé, Cameroon, Yaoundé, Cameroon

10:15 a.m.

CHALLENGES AND OPPORTUNITIES OF PHARMACOVIGILANCE IN SUB-SAHARAN AFRICA

Alexander Dodoo

University of Ghana Medical School, Accra, Ghana

10:45 a.m.

COLLECTION OF ACT EFFECTIVENESS AND RESISTANCE DATA IN UGANDA

Ambrose Talisuna

Uganda Ministry of Health, Kampala, Uganda

11:10 a.m.

DATA COLLECTION ON THE USE OF ACTS IN PREGNANCY

Francois Nosten

Shoklo Malaria Research Unit, Mae Sot, Thailand

11:35 a.m.

OPPORTUNITIES FOR THE COLLECTION OF ACT SAFETY DATA IN THE FIELD: PROS AND CONS OF VARIOUS APPROACHES

Umberto D'Alessandro

Prince Leopold Institute of Tropical Medicine, Antwerp, Belgium

Symposium 70

American Committee on Arthropod-Borne Viruses (ACAV): Modulation of Innate Immune Responses in Vertebrate and Arthropod Host Cells By Arboviruses

Salon F

Tuesday, November 6, 2007 10:15 a.m. - 12:45 p.m.

Vertebrates and invertebrates have developed sophisticated methods to recognize and defend themselves from a variety of pathogens. These aspects of defense, often referred to as innate immunity, operate at both the cellular and organismal levels. Many pathogens, notably the RNA viruses, have developed countermeasures to overcome the host or host cell response to infection. This symposium will provide some of the more recent findings regarding the mechanisms/strategies identified during infections of vertebrate or invertebrate hosts and that play a major role in the outcome of infection.

CHAIR

Douglas M. Watts

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

10:15 a.m.

ACAV BUSINESS MEETING AND AWARDS PRESENTATION

Douglas M. Watts

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

10:45 a.m.

SYMPOSIUM INTRODUCTION

Douglas M. Watts

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

10:50 a.m.

THE EARLY INNATE IMMUNE HOST DEFENSE RESPONSE AGAINST WEST NILE VIRUS

Michael Diamond

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

11:10 a.m.

RNA INTERFERENCE AS AN INNATE ANTIVIRAL RESPONSE TO ARBOVIRUSES IN MOSQUITOES

Carol Blair

Colorado State University, Ft. Collins, CO, United States

11:30 a.m.

THE ROLE OF VIRAL N-LINKED GLYCANS IN ALPHAVIRUS IMMUNE EVASION AND IMMUNE PATHOLOGY

Mark Heise

University of North Carolina, Chapel Hill, NC, United States

11:50 a.m.

WHY IS EBOLA VIRUS SO PATHOGENIC? INHIBITION OF INNATE IMMUNITY BY THE VP35 PROTEIN

Amy Hartman

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

12:10 p.m.

OUTBREAK REPORTS

Douglas M. Watts

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

Symposium 71

World Antimalarial Resistance Network: Steps to Implementation

Salon G

Tuesday, November 6, 2007 10:15 a.m. - Noon

This symposium will outline the plans to create a worldwide network to monitor antimalarial drug resistance, and to create an open access Web-based interface for analysis and presentation of antimalarial drug efficacy.

CHAIR

Carol Hopkins Sibley

University of Washington, Seattle, WA, United States

10:15 a.m.

ASSESSMENT OF CLINICAL EFFICACY OF ANTIMALARIAL DRUGS

Richard Price

Menzies School of Health Research and Charles Darwin University, Darwin, Northern Territory, Australia

10:35 a.m.

ASSESSMENT OF EFFICACY OF ANTIMALARIAL DRUGS IN VITRO

Dennis E. Kyle

University of South Florida, Tampa, FL, United States

10:50 a.m.

THE ROLE OF MOLECULAR MARKERS IN SURVEILLANCE FOR ANTIMALARIAL DRUG EFFICACY

Christopher V. Plowe

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

11:05 a.m.

THE ROLE OF PHARMACOLOGY IN ASSESSMENT OF ANTIMALARIAL DRUG EFFICACY

Nicholas J. White

Mahidol University, Bangkok, Thailand

11:20 a.m.

DISCUSSION

Symposium 72**Tropical Dermatology for the Clinician***Salon H***Tuesday, November 6, 2007 10:15 a.m. - Noon**

Clinical symposium oriented towards practitioner evaluating and treating skin lesions in expatriates, immigrants and returning travellers in developed countries.

CHAIR

Winnie Ooi

*Tufts University School of Medicine, Burlington, MA, United States***10:15 a.m.****UPDATE ON LEPROSY**

Winnie Ooi

*Tufts University School of Medicine, Burlington, MA, United States***10:45 a.m.****TROPICAL ETHNODERMATOLOGY**

Scott Norton

*Walter Reed Army Institute of Research, Bethesda, MD, United States***11:10 a.m.****CLINICAL AND IMMUNOLOGICAL ASPECTS OF AMERICAN CUTANEOUS LEISHMANIASIS IN BRAZIL**

Paulo R. Machado

*Universidade Federal da Bahia, Salvador, Brazil***11:35 a.m.****FEVER AND RASH IN THE RETURNED TRAVELLER**

Carrie Kovarik

*University of Pennsylvania, Philadelphia, PA, United States***Scientific Session 73****Intestinal and Tissue Helminths II: Echinococcosis***Salon IJ***Tuesday, November 6, 2007****10:15 a.m. - Noon****CHAIR**

Bruno Gottstein

University of Bern Institute of Parasitology, Bwern, Switzerland

Peter Kern

*University of Ulm, Ulm, Germany***10:15 a.m.****371****NATURAL HISTORY OF HYDATID INFECTION AND DISEASE**

Saul J. Santivañez¹, Silvia Rodriguez², Mary L. Rodriguez¹, Juan G. Aguinaga³, Ivy M. Renteria⁴, Cesar Gavidia⁵, Hector H. Garcia¹, For the Cysticercosis Working Group in Peru¹

¹Department of Microbiology, Universidad Peruana Cayetano Heredia, School of Sciences, Lima, Peru, ²Cysticercosis Unit, Instituto de Ciencias Neurológicas, Lima, Peru, ³School of Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴School of Medicine, Universidad San Martín de Porras, Lima, Peru, ⁵School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru

10:30 a.m.**372****STRAIN CHARACTERISATION OF HUMAN HYDATIDOSIS IN SUDAN**

Rihab A. Omer¹, Anke Dinkel², Thomas Romig², Ute Mackenstedt², Mohamed Elamin³, Ayman Elnahas⁴, Imad Aradaib⁴

¹Central Veterinary Research Laboratories, Khartoum, Sudan, ²Institute of Parasitology, University of Hohenheim, Stuttgart, Germany, ³Elshab Teaching Hospital, Khartoum, Sudan, ⁴Faculty of Veterinary Medicine, University of Khartoum, Khartoum, Sudan

10:45 a.m.**373****PAIR IN BULGARIA: A FIVE-YEAR EXPERIENCE**

Branimir Golemanov¹, **Enrico Brunetti**², Nikola Grigorov³, Rumiana Mitova³, Jordan Genov³, Dimitar Vuchev⁴

¹Clinical Centre of Gastroenterology, University Hospital "Queen Giovanna", Sofia, Bulgaria, ²University of Pavia, S. Matteo Hospital Foundation, Pavia, Italy, ³Clinical Centre of Gastroenterology, University Hospital "Queen Giovanna", Sofia, Bulgaria, ⁴National Centre of Infectious and Parasitic Diseases, Sofia, Bulgaria

11 a.m.**374****LONG-TERM SONOGRAPHIC AND SEROLOGICAL FOLLOW-UP OF INACTIVE ECHINOCOCCAL CYSTS OF THE LIVER**

Enrico Brunetti¹, Federica Castelli², Antonella Grisolia², Giuseppe Mariani², Carlo Filice¹

¹University of Pavia, S. Matteo Hospital Foundation, Pavia, Italy, ²University of Pavia, Pavia, Italy

11:15 a.m.**375****CLOSE CORRELATION OF CLINICAL REGRESSION AND SPECIFIC SEROLOGY IN THE FOLLOW-UP OF PATIENTS WITH ALVEOLAR ECHINOCOCCOSIS**

Dennis Tappe¹, Yasuhito Sako², Sonoyo Itoh², Matthias Frosch¹, Beate Gruener³, Stefan Reuter³, Minoru Nakao², Akira Ito², Peter Kern³

¹Institute of Hygiene and Microbiology, University of Wuerzburg, Wuerzburg, Germany, ²Department of Parasitology, Asahikawa Medical College, Asahikawa, Japan, ³Division of Infectious Diseases, University Hospital and Medical Center Ulm, Ulm, Germany

11:30 a.m.

376

CHARACTERIZATION OF THE *IN VITRO* ACTIVITIES OF ARTEMISININ-DERIVATIVES AGAINST ECHINOCOCCUS MULTILOCULARIS METACESTODESMartin Spicher¹, Jennifer Keiser², **Andrew Hemphill**¹¹University of Berne, Berne, Switzerland, ²Swiss Tropical Institute, Basel, Switzerland

11:45 a.m.

377

MICROSATELLITE POLYMORPHISM AS A TOOL TO STUDY THE SPATIAL DISTRIBUTION OF ECHINOCOCCUS MULTILOCULARIS**Bruno Gottstein**¹, Jenny Knapp², Jean-Mathieu Bart², Stephan Maillard², Renaud Piarroux²¹Institute of Parasitology, Bern, Switzerland, ²Parasitology Department, Besancon, France

(ACMCIP Abstract)

Symposium 74**Memory T Cell Development During Acute and Chronic Parasitic Infections**

Salon KL

Tuesday, November 6, 2007 10:15 a.m. - Noon

This symposium will focus on experimental systems utilizing protozoan and helminth infections to understand the development and maintenance of memory T cells. This symposium will be timely given recent advances in our understanding of the behavior of T cells as immunologic memory develops. Presenters will be asked to link their experimental results to published data from human studies in order to provide a framework for discussion of the possible translation of findings from the laboratory to advances in the field.

CHAIR

Phillip Scott

University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA, United States

Edward Pearce

University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA, United States

10:15 a.m.

MEMORY T CELLS IN LEISHMANIASIS IN THE PRESENCE AND ABSENCE OF PERSISTENT PARASITES

Phillip Scott

University of Pennsylvania School of Veterinary Medicine, Philadelphia, United States

10:45 a.m.

MEMORY T CELLS IN CHRONIC SCHISTOSOMIASIS

Edward Pearce

University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA, United States

11:10 a.m.

MEMORY CD8+ T CELLS IN CHAGAS DISEASE

Rick L. Tarleton

University of Georgia, Athens, GA, United States

11:35 a.m.

MEMORY TH2 CELLS INDUCED BY GASTROINTESTINAL NEMATODES

Markus Mohrs

Trudeau Institute, Saranac Lake, NY, United States

Scientific Session 75**Clinical Tropical Medicine II**

Liberty AB

Tuesday, November 6, 2007

10:15 a.m. - Noon

CHAIR

David J. Bell

University of Liverpool, Liverpool, United Kingdom

Walter Taylor

Oxford University, Hanoi, Vietnam

10:15 a.m.

378

COMBINATION LIPOSOMAL AMPHOTERICIN B (AMBISOME®, AMB) AND MILTEFOSINE (MF) FOR THE TREATMENT OF VISCERAL LEISHMANIASIS (VL) IN NORTHERN BIHAR, INDIA**Shyam Sundar**¹, P. Olliaro², M. Rai¹, J. Chakravarty¹, D. Agrawal¹, N. Agrawal¹, M. Vaillant³, H. W. Murray⁴¹Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, ²UNICEF/UNDP/WB/WHO Special Programme for Research and Training in Tropical Diseases (TDR), Geneva, Switzerland, ³Centre for Health Studies, CRP-Santé, Luxembourg, Luxembourg, ⁴Department of Medicine, Weill Cornell Medical College, New York, NY, United States

10:30 a.m.

379

WHAT BASELINE PATIENT CHARACTERISTICS PREDICT TOXICITY DURING SODIUM STIBOGLUCONATE TREATMENT?**Naomi E. Aronson**¹, Glenn Wortmann², Janelle Rhorer³, Joel Verter³, David Shoemaker⁴, Clifton Hawkes², Walter Reed Clinical Leishmaniasis Group²¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Walter Reed Army Medical Center, Washington, DC, United States, ³Statistics Collaborative, Washington, DC, United States, ⁴U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States

10:45 a.m.

380

TREATMENT OF AMERICAN CUTANEOUS LEISHMANIASIS PREVIOUS TO ULCER DEVELOPMENT IS ASSOCIATED WITH HIGH RATE OF FAILURE IN NORTHWEST BRAZIL

Alon Unger¹, Seth O'Neal², Luiz H. Guimarães³, Paulo R. Machado³, Leda Alcantara⁴, Daniel J. Morgan⁵, Sara Passos³, Edgar M. Carvalho³

¹University of California, Los Angeles, Los Angeles, California, CA, United States, ²Oregon Health Sciences University, Portland, OR, United States, ³Hospital Universitário Professor Edgard Santos, Salvador, Brazil, ⁴Universidade da Bahia, Salvador, Brazil, ⁵Weill Medical College of Cornell University, New York, NY, United States

11 a.m.

381

SEROPREVALENCE OF TOXOCARIASIS IN SCHOOLCHILDREN IN SAN JUAN DE LURIGANCHO, LIMA, PERU

Judith P. Breña¹, Ciro P. Maguiña¹, Leandro Huayanay², Roger Hernandez¹, Yrma Espinoza³, William H. Roldan³

¹Institute of Tropical Medicine "Alexander von Humboldt", Universidad Peruana Cayetano Heredia, Lima, Peru, ²Unit of Clinical Epidemiology, Universidad Peruana Cayetano Heredia, Lima, Peru, ³Institute of Tropical Medicine "Daniel Alcides Carrion", Universidad Nacional Mayor de San Marcos, Lima, Peru

11:15 a.m.

382

THE PREVALENCE OF RHEUMATIC HEART DISEASE AMONG CHILDREN IN BAMAKO, MALI

Melissa B. Rosenberg¹, Mahamadou M. Keita², Kassoum M. Sanogo³, Milagritos D. Tapia¹, James Dale⁴, Samba O. Sow², Karen Kotloff¹

¹University of Maryland Center for Vaccine Development, Baltimore, MD, United States, ²Centre pour le Développement des Vaccins – Mali, Bamako, Mali, ³Hôpital Gabriel Touré, Bamako, Mali, ⁴University of Tennessee, Memphis, TN, United States

11:30 a.m.

383

VIRAL HEPATITIS IN NEWLY ARRIVED IMMIGRANTS AND REFUGEES

Christina Greenaway¹, Pierre Dongier², Jean-Francois Boivin³, Bruce Tapiero⁴, Mark Miller¹, Kevin Schwartzman³

¹Division of Infectious Diseases, SMBD Jewish General Hospital, Montreal, QC, Canada, ²CLSC Côte-des-Neiges, Montreal, QC, Canada, ³Department of Epidemiology, McGill University, Montreal, QC, Canada, ⁴Division of Infectious Diseases, Ste. Justine Hospital, Montreal, QC, Canada

11:45 a.m.

384

A PHASE II VACCINE TRIAL OF MENINGOCOCCAL A CONJUGATE VACCINE (PSATT) IN AFRICAN TODDLERS

Samba O. Sow¹, Brown Okoko², Marie-Pierre Preziosi³, Elisa Marchetti⁴, Milagritos D. Tapia⁵, Fadima C. Haidara¹, Richard Adegbola², Ray Borrow⁶, George Carlone⁷, Adebayo Akinsola², Souleymane Diakite¹, Varsha Parulekar⁸, Brian Plikaytis⁷, Helen Findlow⁶, Cheryl Elie⁷, Jean-Marie Preaud⁴, Subash Kapre⁹, Suresh Jadav⁹, Marc LaForce⁴, Prasad Kulkarni⁹, Simonetta Viviani⁴

¹Centre pour le Développement des Vaccins - Mali, Bamako, Mali, ²Medical Research Council, Basse, Gambia, ³Meningitis Vaccine Project, Initiative for Vaccine Research, WHO, Geneva, Switzerland, ⁴Meningitis Vaccine Project, PATH, Ferney-Voltaire, France, ⁵University of Maryland School of Medicine, Baltimore, MD, United States, ⁶Health Protection Agency, Manchester, United Kingdom, ⁷Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁸iGate Clinical Research International, Mumbai, India, ⁹Serum Institute of India Ltd, Pune, India

Scientific Session 76**Filariasis II - Chemotherapy and Resistance**

Liberty C

Tuesday, November 6, 2007

10:15 a.m. - Noon

CHAIR

Mike Osei-Atweneboana

McGill University, St. Anne-De-Bellevue, QC, Canada

Wilma Stolk

Erasmus Medical Center, Rotterdam, The Netherlands

10:15 a.m.

385

MODELLING THE SPREAD OF ANTHELMINTIC RESISTANCE

Thomas S. Churcher, María-Gloria Basáñez

Imperial College London, London, United Kingdom

10:30 a.m.

386

PHENOTYPIC EVIDENCE OF EMERGING IVERMECTIN RESISTANCE IN SOME POPULATION OF ONCHOCERCA VOLVULUS, THE CAUSATIVE AGENT OF ONCHOCERCASIS

Mike Y. Osei-Atweneboana¹, Jeffrey L. Eng¹, Daniel A. Boakye², John O. Gyapong³, Roger K. Prichard¹

¹McGill University, Ste. Anne-De-Bellevue, QC, Canada, ²Noguchi Memorial Institute for Medical Research, University of Ghana, Ghana, ³Ghana Health Services, Health Research Unit, Ghana

10:45 a.m.

387

THE ALTERED STATE OF ONCHOCERCAL NODULES AFTER TREATMENT WITH IVERMECTIN; INSIGHTS INTO MECHANISMS OF CHEMOTHERAPEUTIC ACTION

Charles D. Mackenzie¹, Guillermo Zea-Flores², Juan-Carlos Viera³, Roberto Proano³, Rob R. Eversole⁴

¹Michigan State University, East Lansing, MI, United States, ²OEPA, Guatemala City, Guatemala, ³Onchocerciasis Control Program, Quito, Ecuador, ⁴Western Michigan University, Kalamazoo, MI, United States

11 a.m.

388

TARGETING ENDOSYMBIOTIC WOLBACHIA IN WUCHERERIA BANCROFTI REDUCES PLASMA VEGF-A AND IMPROVES CONDITION OF HYDROCELE PATIENTS

Alexander Yaw Debrah¹, Sabine Mand¹, Mohamad Reza Toliat⁴, Yeboah Marfo-Debrekyei², Linda Batsa², Peter Nuernberg⁴, Bernard Lawson³, Ohene Adjei⁵, Achim Hoerauf¹, Kenneth Pfarr¹

¹Institute for Medical Microbiology, Immunology and Parasitology, University of Bonn, Bonn, Germany, ²Kumasi Centre for Collaborative Research in Tropical Medicine (KCCR), Kumasi, Ghana, ³Department of Theoretical and Applied Biology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁴Cologne Centre for Genomics (CCG), University of Cologne, Germany, ⁵School of Medical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

11:15 a.m.

389

WOLBACHIA ENDOBACTERIA DEPLETION BY DOXYCYCLINE AS ANTIFILARIAL THERAPY IS MACROFILARIDICAL IN ONCHOCERCIASIS

Achim Hoerauf¹, Sabine Specht¹, Marcelle Büttner², Kenneth Pfarr¹, Sabine Mand¹, Rolf Fimmers¹, Yeboah Marfo-Debrekyei³, Peter Konadu⁴, Alexander Y. Debrah¹, Claudio Bandi⁵, Norbert Brattig², Anna Albers¹, Linda Batsa³, Ohene Adjei⁴, Dietrich W. Büttner²

¹University Clinic Bonn, Bonn, Germany, ²Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, ³Kumasi Centre of Collaborative Research, Kumasi, Ghana, ⁴Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁵University of Milan, Milan, Italy

11:30 a.m.

390

EOSINOPHILS ARE NOT REQUIRED FOR DEC-MEDIATED CLEARANCE OF MICROFILAREMIA

Amy D. Klion, Kawsar Talaat, Sandy White, Helene Rosenberg, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

11:45 a.m.

QUESTION AND ANSWER PERIOD OR LATE BREAKER ABSTRACT PRESENTATION
Symposium 77

Anopheles Anti-Plasmodium Defense Systems

Franklin 3/4

Tuesday, November 6, 2007 10:15 a.m. - Noon

The past decade has experienced a dramatic proliferation of our knowledge on the molecular biology of the malaria vector *Anopheles gambiae*. This symposium will address the latest breakthroughs and discoveries on genes and mechanisms that are implicated in defending the *Anopheles* mosquito against *Plasmodium* infection.

CHAIR

George Dimopoulos

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

10:15 a.m.

THE ROADS TO NOWHERE: THE REGULATION OF NITRIC OXIDE-MEDIATED MALARIA PARASITE KILLING

Shirley Luckhart

University of California at Davis, Davis, CA, United States

10:45 a.m.

PLASMODIUM SPOOROZOITE DESTRUCTION IN THE ANOPHELES HAEMOCOEL

Julian Hillyer

Vanderbilt University, Nashville, TN, United States

11:10 a.m.

ANOPHELES SERPINS IN THE DEFENCE AGAINST PLASMODIUM

Kristin Michel

Kansas State University, Manhattan, KS, United States

11:35 a.m.

INTERACTIONS BETWEEN ANOPHELES ANTI-BACTERIAL AND ANTI-PLASMODIUM DEFENSE SYSTEMS

George Dimopoulos

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

Exhibit Hall Open

Franklin Hall B

Tuesday, November 6, 2007 Noon - 3 p.m.

Poster Session B/Light Lunch (#391 – 620)

Franklin Hall B

Tuesday, November 6, 2007
Noon - 1:30 PM**Arthropods/Entomology - Other****391****LUTZOMYIA LONGIPALPIS SALIVARY RECOMBINANT PROTEINS RECOGNIZED BY HUMAN, DOG AND FOX ANTIBODIES****Regis B. Gomes**¹, Nicolas Collin¹, Clarissa Teixeira¹, Ryan Jochim¹, Dia-eldin Elnaiem¹, Peter Volf², Carlos Costa³, Jesus G. Valenzuela¹¹National Institute of Allergy and Infectious Disease, National Institutes of Health, Rockville, MD, United States, ²Charles University, Prague, Czech Republic, ³Universidade Federal do Piauí, Teresina, Brazil**392****DETERMINANTS OF TRIATOMA INFESTANS INFESTATION CLUSTERING IN RURAL COMMUNITIES OF MORENO DEPARTMENT, NORTHWESTERN ARGENTINA****Gonzalo M. Vazquez Prokopec**¹, Cynthia Spillmann², Mario Zaidenberg², Uriel Kitron³, Ricardo E. Gürtler¹¹Laboratorio de Eco-Epidemiología, Universidad de Buenos Aires, Buenos Aires, Argentina, ²Coordinación Nacional de Control de Vectores, Ministerio de Salud y Ambiente de la Nación, Córdoba, Argentina, ³Department of Pathobiology, University of Illinois, Urbana, IL, United States**393****IMMUNOMODULATORY EFFECTS OF SALIVARY GLAND EXTRACT OF BLACK FLY, SIMULIUM VITTATUM (DIPTERA: SIMULIIDAE) ON MOUSE SPLENOCYTES****Hitoshi Tsujimoto**, Donald E. Champagne
University of Georgia, Athens, GA, United States

(ACMCIP Abstract)

394**HIDDEN SYLVATIC FOCI OF TRIATOMA INFESTANS IN THE ARGENTINE CHACO: A THREAT TO THE VECTOR ELIMINATION CAMPAIGN?****Leonardo A. Ceballos**¹, Uriel Kitron², Romina V. Piccinali¹, Paula L. Marcet¹, Marta V. Cardinal¹, Judith Schachter-Broide¹, Jean-Pierre Dujardin³, Ellen Dotson⁴, Ricardo E. Gürtler¹¹Laboratorio de Eco-Epidemiología, Departamento de Ecología, Genética y Evolución, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Buenos Aires, Argentina, ²College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana, IL, United States, ³Unité Mixte de Recherche, Institut de Recherches pour le Développement-Centre National de Recherche Scientifique, Montpellier, France, ⁴Centers for Disease Control and Prevention, Division of Parasitic Diseases, Entomology Branch, Chamblee, GA, United States**395****HUMAN IMMUNE RESPONSES AGAINST PHLEBOTOMUS PAPTASI SALIVA****Rami M. Mukbel**¹, Glenn Wortmann², Emil Lesho², Vinita Tripathi¹, Mariha Wadsworth¹, Gwen Stayback¹, Fabiano Oliveira³, Shaden Kamhawi³, Jesus Valenzuela³, Marcelo Ramalho-Ortigao¹, Mary Ann McDowell¹¹University of Notre Dame, Notre Dame, IN, United States, ²Walter Reed Army Medical Center, Washington DC, United States, ³National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

396**MOLECULAR BASIS OF SPECIFICITY AND CROSS REACTIVITY IN DELAYED-TYPE-HYPERSENSITIVITY REACTIONS TO BITES OF SAND FLIES AND IMPLICATION FOR PROTECTION AGAINST LEISHMANIA INFECTION****Dia-Eldin A. Elnaiem**, Luiz F. Oliveira, Regis B. Gomes, Clarissa Toxeira, Sreenath Subrahmanyam, Shaden Kamhawi, Phillip G. Lawyer, Jerrold M. Ward, Jesus G. Valenzuela

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

397**PHLEBOTOMUS PAPTASI SALIVARY GLAND SEQUENCE VARIABILITY AND IMPACT ON DEFINING VACCINE CANDIDATES****Marcelo Ramalho-Ortigao**¹, Valdir Q. Balbino¹, Iliano V. Coutinho-Abreu¹, Rami Mukbel¹, Emad Fawaz², Shaaban El-Hossary², Hanafi Hanafi², David Hoel², Mahmoud Abo-Shehada³, Jesus Valenzuela⁴, Shaden Kamhawi⁴, Mary Ann McDowell¹¹University of Notre Dame, Notre Dame, IN, United States, ²Naval Medical Research Unit #3, Cairo, Egypt, ³Jordan University of Science and Technology, Irbid, Jordan, ⁴National Institutes of Health, Rockville, MD, United States**398****TEMPORAL AND SPATIAL VARIATION IN ABUNDANCE OF THE MALARIA VECTOR ANOPHELES (ANOPHELES) PSEUDOPUNCTIPENNIS IN NORTHERN ARGENTINA****María J. Dantur Juri**¹, Mario Zaidenberg², Guillermo L. Claps¹, Mirta Santana³, Walter R. Almirón⁴¹Institute of Entomology "Dr. Abraham Willink", School of Natural Sciences and Miguel Lillo Institute, The National University of Tucumán, San Miguel de Tucumán, Tucumán, Argentina, ²National Coordination of Vector Control, Health Ministry of Argentina, Salta, Argentina, ³Biostatistics Department, School of Medicine, National University of Tucumán, San Miguel de Tucumán, Tucumán, Argentina, ⁴Centre of Entomologic Research of Córdoba, School of Physical, Exact and Natural Sciences, National University of Córdoba, Córdoba, Argentina

399

AN UNUSUAL CASE OF ALIMENTARY CANAL INFESTATION BY THE MILLIPEDE *BRACHYIULUS LUSITANUS* (DIPLOPODA) IN A 5 YEAR OLD BOY. A CASE REPORTG. R. Mowlavi¹, S. R. Naddaf², M. Rezaeian¹, I. Mobedi¹, N. Najafi³, D. D. Bowman⁴, **A. Lucio-Forster⁴**, R. L. Hoffman⁵

¹School of Public Health and Institute of Public Health Research of Tehran University of Medical Sciences, Tehran, Islamic Republic of Iran, ²Pasteur Institute of Iran, Tehran, Islamic Republic of Iran, ³Mazandaran University of Medical Sciences, Sari, Islamic Republic of Iran, ⁴Cornell University, Ithaca, NY, United States, ⁵Virginia Museum of Natural History, Martinsville, VA, United States

400

SELECTIVE DELTAMETHRIN SPRAYING OF TRIATOMINE INFESTED HOUSES FOR THE CONTROL OF CHAGAS DISEASE IN SOUTHERN ECUADORMario J. Grijalva¹, Anita G. Villacis², Esteban G. Baus², Cesar A. Yumiseva², Sofia Ocaña-Mayorga², Paula Castellanos-Cuervo², Mauricio S. Lascano¹, Santiago Davila³, Jorge Monroy-Nicola⁴, Laura Arcos-Teran², Christopher J. Schofield⁵

¹Tropical Disease Institute, Biomedical Sciences Department, College of Osteopathic Medicine, Ohio University, Athens, OH, United States, ²Center for Infectious Disease Research, School of Biological Sciences, Pontifical Catholic University, Quito, Ecuador, ³PLAN Internacional, Quito, Ecuador, ⁴Chagas Disease Control Program, Ministry of Public Health, Guayaquil, Ecuador, ⁵ECLAT, London School of Hygiene and Tropical Medicine, London, United Kingdom

401

EVALUATION OF NOVEL LONG-LASTING, INSECTICIDE-IMPREGNATED BED NETS TO CONTROL ADULT SAND FLIES (DIPTERA: PHLEBOTOMINAE) IN HUMAN LANDING STUDIES IN KENYA AND EGYPTGabriela Zollner¹, David Hoel², Hanafi A. Hanafi², Jason H. Richardson³, Richard Mukabana³, Russell E. Coleman¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²U.S. Naval Medical Research Unit No. 3, Cairo, Egypt, ³US Army Medical Research Unit, Nairobi, Kenya

402

FAST-ID: FLIGHT SIGNATURE RECORDINGS OF *Aedes* AND *Culex* MOSQUITOES FOR AUTOMATED SPECIES IDENTIFICATION AND VECTOR SURVEILLANCEPhilipp Kirsch¹, John McLaughlin¹, Charles Apperson², Aubrey Moore³, Darek Czokajlo¹, Luma Abu Ayyash²

¹APTIV Inc., Portland, OR, United States, ²North Carolina State University, Raleigh, NC, United States, ³University of Guam, Mangilao, GU, United States

403

COMPARISON OF ECOSYSTEMIC AND TRADITIONAL METHODS FOR THE LONG TERM CONTROL OF THE CHAGAS' VECTOR *TRIATOMA DIMIDIATA* IN JUTIAPA, GUATEMALADulce M. Bustamante¹, Carlota Monroy², Sandy Pineda², Antonieta Rodas², Xochitl Castro², Virgilio Ayala³, Javier Quinonez³, Barbara Moguel², Ranferi Trampe⁴, Leonicio Revolorio⁴

¹University of Florida, Vero Beach, FL, United States, ²LENAP, Universidad de San Carlos de Guatemala, Ciudad de Guatemala, Guatemala, ³Facultad de Ingenieria, Universidad de San Carlos de Guatemala, Ciudad de Guatemala, Guatemala, ⁴Ministerio de Salud Publica y Asistencia Social, Jutiapa, Guatemala

Clinical Tropical Medicine

404

FEASIBILITY, ACCEPTABILITY AND SAFETY OF ARTEMETHER-LUMEFANTRINE IN HOME MANAGEMENT OF UNCOMPLICATED MALARIA IN SOUTHWEST NIGERIAIkeoluwapo O. Ajayi¹, Bidemi Yusuf¹, Catherine O. Falade¹, Sola Gbotosho¹, Benjamin Olley², Christian Happi¹, Yemisi Iyiola³

¹College of Medicine, Ibadan, Nigeria, ²Social Sciences Department, University of Ibadan, Ibadan, Nigeria, ³Ministry of Health, Ibadan, Nigeria

405

FEVER AND THE RECENT INTERNATIONAL TRAVELER PRESENTING TO THE EMERGENCY DEPARTMENTJohn Cahill¹, Ryan David²

¹St. Lukes/Roosevelt Hospital, New York, NY, United States, ²Jacobi Medical Center, New York, NY, United States

406

ASSESSMENT OF A TREATMENT GUIDELINE TO IMPROVE HOME MANAGEMENT OF MALARIA

Ikeoluwapo O. Ajayi, Oladele Kale, Afolabi E. Bamgboye, Oladimeji Oladepo

College of Medicine, Ibadan, Nigeria

407

USING "MOTHER TRAINERS" FOR MALARIA CONTROL: THE NIGERIAN EXPERIENCE

Ikeoluwapo O. Ajayi, Oladele Kale, Afolabi E. Bamgboye

College of Medicine, Ibadan, Nigeria

408

COMMON INFECTIOUS AND NON-INFECTIOUS DISEASES AMONG RECENT IMMIGRANTS AT THE SOUTH BRONX'S REFUGEE AND IMMIGRANT CLINIC

Ramin G. Asgary, Sara Doorley

Albert Einstein College of Medicine, New York, NY, United States

409

THERMOTHERAPY VERSUS MEGLUMINE ANTIMONIATE IN THE TREATMENT OF CUTANEOUS LEISHMANIASIS IN MALI

Ousmane Faye¹, Seydou Doumbia², Adama Dicko³, Karim Coulibaly³, Pierre Traore³, Hawa Sagara³, Kouressi Tall³, **Somita Keita³**

¹National Center for Diseases Controle, Bamako, Mali, ²Malaria Research and Training Center, Bamako, Mali, ³Marchoux Institute, National Center for Diseases Controle, Bamako, Mali

410

CLINICAL PROFILE OF DENGUE OUTBREAK IN A DEVELOPING NATION (2003-2005)

Vineet Gupta, Sanjeev Bhoi

All India Institute of Medical Sciences, New Delhi, India

411

CASE REPORT OF A TRAVELER WITH LEISHMANIA PANAMENSIS TREATED WITH MILTEFOSINE

Jeffrey G. Jones

St. Francis Traveler's Health Center, Indianapolis, IN, United States

412

REPORT OF THE UNITED STATES - EUROPEAN COMMISSION WORKSHOP "ADVANCES IN IMMUNOLOGY AND VACCINE DISCOVERY"

Thomas L. Richie¹, Cyril G. Gay²

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Agricultural Reseach Service, U.S. Department of Agriculture, Beltsville, MD, United States

413

THE RELATIONSHIP BETWEEN MALARIA MORBIDITY AND AVAILABILITY OF HEALTHCARE FACILITY IN PARTS OF THE IMO RIVER BASIN, SOUTHEASTERN NIGERIA

Ikechukwu N. Dozie¹, Uchechukwu M. Chukwuocha², Betram E. Nwoke¹, Celestine O. Onwuliri²

¹Imo State University, Owerri, Imo State, Nigeria, ²Federal University of Technology, Owerri, Imo State, Nigeria

414

RISING TREND OF CARDIOVASCULAR DISEASES AMONG SOUTH WESTERN NIGERIAN FEMALE PATIENTS

Aduragbenro D. Adedapo

College of Medicine, University of Ibadan, Nigeria, Ibadan, Nigeria

415

DOXYCYCLINE NONCOMPLIANCE RESULTS IN SEVERE AND COMPLICATED FALCIPARUM MALARIA IMPORTED FROM CHAD

Lucia Gerena¹, Michael Shusko², David Krulak³, Mike Favata⁴, Donald A. Neil⁵, Jean-Paul Chretien⁶, Victor MacIntosh⁶, David L. Saunders¹, Alan J. Magill¹, Peter J. Weina¹, **Wilbur K. Milhous¹**

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Group Surgeon Marine Special Operations Advisor Group, Camp Lejeune, NC, United States, ³Group Surgeon, Marine Special Operations Support Group, Camp Lejeune, NC, United States, ⁴Naval Hospital, Camp Lejeune, NC, United States, ⁵Disease Intervention and Prevention Specialist Department Head Preventive, Camp Lejeune, NC, United States, ⁶DoD Global Emerging Infections Surveillance and Response System (DoD-GEIS), Silver Spring, MD, United States

416

CLINICAL, LABORATORY, AND MOLECULAR DETERMINANTS OF EPIDEMIC SEVERE AND COMPLICATED MALARIA (SCM) IN THE PERUVIAN AMAZON

R. Witzig¹, A. H. Quino², M. Rios¹, M. Santolalla³, M. A. Dery², C. Salas³, **D. J. Bacon³**

¹Tulane University Medical School, New Orleans, LA, United States, ²Hospital Apoyo, Iquitos, Peru, ³Naval Medical Research Center Detachment, Lima, Peru

417

CORRECTION OF CENTRAL NERVOUS SYSTEM METABOLIC ABNORMALITIES, DEFICITS IN EXECUTIVE COGNITIVE FUNCTIONING AND ELEVATED C4A: A CLINICAL TRIAL USING LOW DOSE ERYTHROPOIETIN IN PATIENTS SICKENED BY EXPOSURE TO WATER-DAMAGED BUILDINGS (WDB)

Ritchie C. Shoemaker

Center for Research on Biotxin Associated Illnesses, Pocomoke, MD, United States

(ACMCIP Abstract)

418

DEFINING MOLD ILLNESS IN CHILDREN: A CHRONIC INFLAMMATORY ILLNESS WITH DISTINCTIVE BIOMARKERS

Ritchie C. Shoemaker

Center for Research on Biotxin Associated Illnesses, Pocomoke, MD, United States

(ACMCIP Abstract)

419

SEQUENTIAL UPREGULATION OF INNATE IMMUNE RESPONSES DURING ACUTE ACQUISITION OF ILLNESS IN PATIENTS EXPOSED PROSPECTIVELY TO WATER-DAMAGED BUILDINGS (WDB)

Ritchie C. Shoemaker

Center for Research on Biotxin Associated Illnesses, Pocomoke, MD, United States

(ACMCIP Abstract)

420

CLINICAL AND EPIDEMIOLOGICAL STUDIES OF ANTERIOR SEGMENT DISORDERS DUE TO ONCHOCERCIASIS IN IMO STATE, NIGERIAUgonna F. Nwigwe¹, Francis O. Iwuagwu¹, Ikechukwu N. Dozie¹, Uchekwu M. Chukwuocha²¹Imo State University, Owerri, Nigeria, ²Federal University of Technology, Owerri, Nigeria

421

IMPACT OF REPEATED ADMINISTRATION OF ACTS ON SAFETY, EFFICACY AND INCIDENCE OF UNCOMPLICATED MALARIA IN MALIAbdoulaye Djimde¹, Bakary Fofana¹, Issaka Sagara¹, Bakary Sidibe¹, Sekou Toure¹, Demba Dembele¹, Amadou Togo¹, Kassim Sanogo¹, Souleymane Dama¹, Alassane Dicko¹, Valerie Lameyre², Christopher V. Plowe³, Ogobara K. Doumbo¹¹University of Bamako, Bamako, Mali, ²Sanofi-Aventis, Paris, France, ³University of Maryland, Baltimore, MD, United States

422

COST ANALYSIS FOR SCHISTOSOMIASIS CONTROL IN PLATEAU AND NASARAWA STATES, NIGERIAJulie R. Gutman¹, Abel Eigege², John Umaru², Kal Alphonsus², Emmanuel S. Miri², Frank O. Richards³¹Emory University, Atlanta, GA, United States, ²The Carter Center, Jos, Nigeria, ³The Carter Center, Atlanta, GA, United States

423

RANDOMIZED COMPARISON OF AMODIAQUINE-SULFADOXINE/PYRIMETHAMINE, ARTEMETHER-LUMEFANTRINE, AND DIHYDROARTEMISININ-PIPERAQUINE FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN BURKINA FASOIssaka Zongo¹, Dorsey Grant², Noel Rouamba¹, Christian Dokomajilar², Yves Sere¹, Philip J. Rosenthal², Jean Bosco Ouedraogo¹¹Institut de Recherche en Sciences de la Sante, Direction Regionale de l'Ouest, Bobo-Dioulasso, Burkina Faso, ²University of California, San Francisco, San Francisco, CA, United States

424

EFFICACY AND SAFETY OF AMODIAQUINE-ARTESUNATE AND ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN BURKINA FASO

Issaka Zongo, Noel Rouamba, Jean Bosco Ouedraogo

Institut de Recherche en Sciences de la Sante, Direction Regionale de l'Ouest, Bobo-Dioulasso, Burkina Faso

425

ANTIMALARIAL IGG AND IGG SUBCLASS RESPONSES IN CAMEROONIAN CHILDREN WITH SEVERE AND UNCOMPLICATED MALARIAViviane Helene Matong Tchinda¹, Genevieve Giny Fouda³, Diane Wallace Taylor³, Ainong Zhou⁴, Armead Johnson⁵, Ababacar Diouf³, Simon Metenou³, and Rose Gana Fomban Leke²¹The Medical Research Centre, Institute of Medical Research and Medicinal Plant Studies (IMPM), Ministry of Scientific Research and Innovation,Yaoundé, Cameroon, ²The Biotechnology Centre, University of Yaoundé I, Yaoundé, Cameroon, ³Department of Biology, Georgetown University, Washington, DC, ⁴AZ Data Clinic, Inc., Rockville, MD, United States, ⁵Department of Pediatrics, Georgetown University, Washington, DC, United States

426

MICROSPORIDIOSIS AND MALNUTRITION IN UGANDAN CHILDREN WITH PERSISTENT DIARRHEASiobhan M. Mor¹, James K. Tumwine², Grace Ndeezi², Saul Tzipori¹¹Division of Infectious Diseases, Tufts Cummings School of Veterinary Medicine, North Grafton, MA, United States, ²Department of Pediatrics and Child Health, Mulago Hospital, Makerere University Medical School, Kampala, Uganda

427

AN IMPORTED CASE OF PEDIATRIC MELIOIDOSIS: SOMETIMES HOOFBEATS ARE ZEBRAS!Tobey A. Audcent, Anne E. McCarthy
University of Ottawa, Ottawa, ON, Canada

428

EOSINOPHILIA AS A DIAGNOSTIC TOOL FOR ANGIOSTRONGYLIASISKittisak Sawanyawisuth¹, Somsak Tiamkao², Pewpan M. Intapan², Panita Limpawattana², Wichai Senthong², Suthipun Jitpimolmard², Verajit Chotmongkol², Elizabeth B. Connor¹¹University of California, San Diego, La Jolla, CA, United States, ²Khon Kaen University, Khon Kaen, Thailand

429

LEPTOSPIROSIS IN NEPALKhin S. Myint¹, Clinton K. Murray², Robert McNair Scott³, Mrigendra P. Shrestha³, Mammen P. Mammen¹, Gyan B. Thapa⁴, Sanjaya K. Shrestha³, Robert A. Kuschner⁵, Durga M. Joshi⁴, Robert V. Gibbons¹¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand,²Brooke Army Medical Center, Sam Houston, TX, United States, ³Walter Reed/Armed Forces Research Institute of the Medical Sciences Research Unit Nepal, Kathmandu, Nepal, ⁴Nepalese Army, Kathmandu, Nepal, ⁵Walter Reed Army Institute of Research, Silver Spring, MD, United States

430

DEVELOPMENT OF A LEPTOSPIROSIS REAL TIME PCR BASED ON LIPL32Kurt E. Schaecher, Duangkamon Siludjai, Mark Fukuda
Armed Forces Research Institute of Research, Bangkok, Thailand

431

INVESTIGATION OF POSSIBLE ROLE OF TOXOPLASMOSIS IN PATIENTS WITH FIRST EPISODE SCHIZOPHRENIAMehmet Tanyuksel¹, Ozcan Uzun¹, Engin Araz¹, Ozgur Koru¹, Cahit Babur²¹GMMA, Ankara, Turkey, ²Refik Saydam Hifzisiha Center, Ankara, Turkey

432

DIAGNOSIS OF ACUTE FEBRILE ENCEPHALOPATHY IN ADULTS: WHAT REALLY HELPS THE CLINICIAN?

Ashish Bhalla, John Manchery, Vikas Suri, Sushil Mahi, Navneet Sharma, Subhash Varma, Paramjit Singh, N. Khandelwal

Post Graduate Institute of Medical Education and Research, Chandigarh, India

Ectoparasite-Borne Disease

433

DEVELOPMENT OF MOLECULAR AND ENZYMATIC ASSAYS TO SURVEY FOR PERMETHRIN RESISTANCE IN SCABIES MITES

Cielo J. Pasay¹, Shelley Walton², Deborah Holt², Larry Arlian³, Marjorie Moran³, Robin Gunning⁴, Louise Rossiter⁵, Simone Beckham¹, Angelika Rose¹, James McCarthy¹

¹Queensland Institute of Medical Research, Brisbane, Queensland, Australia,

²Menzies School of Health Research, Darwin, Northern Territory, Australia,

³Wright State University, Dayton, OH, United States, ⁴NSW Department of Primary Industries, Tamworth, NSW, Australia, ⁵NSW Department of Primary Industries, Narrabri, NSW, Australia

434

PROTECTIVE EFFICACY OF THE 56 KDA ANTIGEN FROM KARP AND KATO STRAINS OF O. TSUTSUGAMUSHI IN HOMOLOGUS AND HETEROLOGOUS CHALLENGED MOUSE MODEL

Chien-Chung Chao¹, Elissa A. Mutumanje², Teik-Chye Chan², Suchismita Chattopadhyay², Allen L. Richards², Wei-Mei Ching²

¹VRDD/IDD/Naval Medical Research Center, Silver Spring, MD, United States,

²VRDD/IDD/Naval Medical Research Center and Uniformed Services University of the Health Sciences, Bethesda, MD, United States

435

TEN YEARS OF TICKS SUBMITTED TO THE HUMAN TICK TEST KIT PROGRAM OF THE U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

Ellen Y. Stromdahl, Mary Vince, Sandra Evans

U.S. Army Center for Health Promotion and Preventive Medicine, Aberdeen Proving Ground, MD, United States

436

SERO-DIAGNOSIS OF MURINE TYPHUS USING RECOMBINANT OMPB FRAGMENTS IN ELISA

Hua-Wei Chen, Chien-Chung Chao, Elissa Mutumanje, Wei-Mei Ching

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

437

INTERSPECIFIC HYBRIDIZATION YIELDS NOVEL FILARIASIS VECTOR ELIMINATION APPROACH

Corey L. Brelsfoard, **Stephen L. Dobson**

University of Kentucky, Lexington, KY, United States

438

SEROPREVALENCE TO RICKETTSIOSES IN U.S. MILITARY FORCES DEPLOYED TO KOREA

Paul C. Graf¹, Allen L. Richards¹, Karla R. Manuel¹, Jenny Lay², Remington Nevin², Joel C. Gaydos³, Jean-Paul Chretien³

¹Naval Medical Research Center, Silver Spring, MD, United States,

²Army Medical Surveillance Activity, Washington, DC, United States,

³Department of Defense, Global Emerging Infections System, Silver Spring, MD, United States

Enteric Vaccines

439

ASSESSING THE POTENTIAL IMPACT OF VACCINATION ON PREVENTION OF ROTAVIRUS DEATHS AMONG CHILDREN IN RURAL GHANA

Melissa Arvay¹, Sophia Terp², George Armah³, Peter Wontuo⁴, Aaron Curns¹, Marc-Alain Widdowson¹, Umesh Parashar¹, Roger I. Glass⁵, Fred Binka⁶

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Centers for Disease Control and Prevention Foundation, Atlanta, GA,

United States, ³Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Ghana, ⁴Navrongo Health Research Center, Navrongo,

Ghana, ⁵Fogarty International Center, U.S. National Institutes of Health,

Bethesda, MD, United States, ⁶School of Public Health, University of Ghana,

Legon, Ghana

440

NEW CLY-A VACCINES SHOW POTENTIAL PROTECTION AGAINST CRYPTOSPORIDIUM INFECTION

Andrea N. Davis-Rivers¹, Fernando Tenjo², Richard L. Guerrant¹, Gregory A. Buck²

¹University of Virginia, Charlottesville, VA, United States, ²Virginia

Commonwealth University, Richmond, VA, United States

(ACMCIP Abstract)

Flaviviridae - Dengue

441

DEVELOPING RNAI-BASED RESISTANCE TO MULTIPLE DENGUE VIRUS SEROTYPES IN MOSQUITOES (Aedes aegypti)

Valérie Barbosa-Solomieu, Irma Sanchez-Vargas, Alexander Franz, Ken E. Olson

Colorado State University, Fort Collins, CO, United States

442

PLATELIA™ DENGUE NS1 ANTIGEN ASSAY: INNOVATIVE ASSAY FOR EARLY DIAGNOSIS OF ACUTE DENGUE INFECTION

Marc Tabouret¹, Christophe Salanon², Patrice Sarfati²

¹Bio-Rad, Steenvoorde, France, ²Bio-Rad, Marnes La Coquette, France

443

ROLE OF A NS1 AG ELISA IN THE VIROLOGICAL DIAGNOSIS OF DENGUE INFECTION AND ITS VALUE FOR DENGUE VACCINE TRIALS

Denis Crevat¹, Marc Tabouret², Vu Thi Que Huong³, Veronique Barban⁴, Patrice Sarfati², Christine Luxemburger⁴, Nguyen Thi Kim Tien³, Jean Lang⁴

¹Sanofi Pasteur, Swiftwater, PA, United States, ²Bio-Rad Laboratories, Marnes-la-Coquette, France, ³Institut Pasteur, Ho Chi Minh City, Vietnam, ⁴Sanofi Pasteur, Marcy l'Etoile, France

444

EVALUATION OF A DUAL-USE, FIELD-DEPLOYABLE, DRY-FORMAT, QUANTITATIVE REVERSE TRANSCRIPTION-POLYMERASE CHAIN REACTION (QRT-PCR) ASSAY FOR DETECTION OF DENGUE VIRUS IN MOSQUITOES AND HUMANS

Subhamoy Pal¹, James McAvin², Sajeewane Ekanayake¹, Russell Coleman³, James Swaby², Tadeusz Kochel⁴, Curtis Hayes¹, Kevin Porter¹, Shuenn-Jue Wu¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Clinical Research Division, 59 CRESIMSR, Lackland Air Force Base, TX, United States, ³Division of Entomology, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴Naval Medical Research Center Detachment, Lima, Peru

445

INTERFERON-ALPHA IMMUNE MODULATION IN A DENDRITIC CELL - T LYMPHOCYTE MODEL OF SEVERE DENGUE DISEASE

Patrick W. Hickey, Dupeh R. Palmer, Julia A. Lynch

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

446

MOLECULAR CHARACTERIZATION OF DENGUE VIRUSES ISOLATED IN MEDELLIN, COLOMBIA AND SURROUNDING AREAS

Francisco J. Diaz¹, Marta C. Ospina², Edwin A. Higueta¹, Jorge E. Osorio³

¹Universidad de Antioquia, Medellin, Colombia, ²Laboratorio de Salud Publica de Antioquia, Medellin, Colombia, ³University of Wisconsin, Madison, WI, United States

447

FACTORS INFLUENCING THE TEMPORAL PATTERN OF CLASSIC DENGUE FEVER IN SINGAPORE

Joseph R. Egger

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

449

LOST IN FRENCH POLYNESIA: WHICH STRATEGIES FOR A DENGUE VIRUS TO SPREAD?

Van-Mai Cao-Lormeau, Elodie Descloux, Claudine Simone Roche, Maite Aubry, Rémy Teyssou

Institut Louis Malardé, Papeete, French Polynesia

450

INHIBITION OF VIRAL REPLICATION IN HUMAN LIVER CELLS BY SHORT INTERFERING RNA DIRECTED TO 5'-NONCODING REGION OF DENGUE-2 VIRUS

Alessandra C. Gomes-Ruiz¹, Breno M. Silva², Cláudio A. Bonjardim², Benedito A. Fonseca¹

¹School of Medicine of Ribeirão Preto, Ribeirão Preto, S.P., Brazil, ²Federal University of Minas Gerais, Belo Horizonte, MG, Brazil

451

PROSPECTIVE STUDY OF DENGUE INFECTION IN SCHOOL CHILDREN IN LONG XUYEN, VIETNAM

Thi Kim Tien Nguyen¹, Christine Luxemburger², Trong Toan Nguyen¹, Thi Que Huong Vu¹, Ngoc Rang Nguyen³, Laurence Pollissard², Jean Lang⁴

¹Pasteur Institute, Ho Chi Minh City, Vietnam, ²sanofi pasteur, Epidemiology Department, Lyon, France, ³An Giang Hospital, Long Xuyen, Vietnam, ⁴sanofi pasteur, Research and Development Department, Marcy l'Etoile, France

452

IMMUNOHISTOCHEMISTRY ON SKIN BIOPSIES FROM VIETNAMESE PATIENTS WITH DENGUE SHOCK SYNDROME

Bridget Wills¹, Tran V. Diet², Dinh T. Trung³, Robert Goldin⁴, Alpana Lad⁴, Nguyen M. Dung², Michael Levin⁴, Jeremy Farrar¹

¹Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, ²Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ³University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam, ⁴Imperial College, London, United Kingdom

453

ANALYSIS OF AGREEMENT BETWEEN INDIVIDUAL AND COMBINED CLINICAL AND LABORATORY FINDINGS AND AN EXPERT PHYSICIAN'S DIAGNOSIS OF DENGUE HEMORRHAGIC FEVER

James A. Potts¹, Siripen Kalayanaroj², Suchitra Nimmannitya², Anon Srikiatkachorn³, Ananda Nisalak⁴, David W. Vaughn⁵, Wenjun Li⁶, Sharone Green³, Alan L. Rothman³

¹Clinical and Population Health Research Division, University of Massachusetts Medical School, Worcester, MA, United States, ²Queen Sirikit National Institute of Child Health, Bangkok, Thailand, ³Center for Infectious Disease and Vaccine Research, University of Massachusetts Medical School, Worcester, MA, United States, ⁴Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁵U.S. Army Medical Research and Materiel Command, Fort Detrick, MD, United States, ⁶Preventive and Behavioral Medicine, University of Massachusetts Medical School, Worcester, MA, United States

454

PROSPECTIVE STUDY OF SUB-CLINICAL DENGUE INFECTION MEASURED BY NEUTRALIZING ANTIBODIES IN VIETNAMESE SCHOOL CHILDREN

Christine Luxemburger¹, Thi Kim Tien Nguyen², Denis Crevat³, Thi Que Huong Vu², Trong Toan Nguyen², Jean Lang⁴

¹sanofi pasteur Epidemiology Department, Lyon, France, ²Pasteur Institute, Ho Chi Minh City, Vietnam, ³sanofi pasteur Research and Development Department, Swiftwater, PA, United States, ⁴sanofi pasteur Research and Development Department, Lyon, France

455

STUDY OF DENV INTERACTIONS WITH RNAI PATHWAY IN THE MOSQUITO

Irma J. Sanchez-Vargas, Alexander Franz, Valerie Barbosa-Solomieu, Carol Blair, Ken Olson
Colorado State University, Fort Collins, CO, United States

456

EVALUATION OF THE PLATELIA™ DENGUE NS1 AG ELISA KIT IN EARLY DIAGNOSIS OF DENGUE INFECTION

Vu Ti Que Huong¹, Ha Van Phuc², Huynh Thi Kim Loan¹, Cao Minh Thang¹, Hoang Thi Nhu Dao¹, Doan Thi Minh Tam¹, Tran Thi Ngoc Ha¹

¹Institut Pasteur, Ho Chi Minh City, Vietnam, ²Vinh Thuan District Hospital, Kien Giang Province, Vietnam

457

DENGUE VIRUS CROSS-REACTIVE MOUSE OR HUMANIZED CHIMPANZEE MONOCLONAL ANTIBODIES FAVOR ENHANCED DENGUE VIRUS IMMUNE COMPLEX INFECTIVITY IN ENGINEERED HUMAN FC GAMMA RECEPTOR CD64 OR CD32-EXPRESSING CELLS

W. W. Shanaka I. Rodrigo¹, Ana P. Goncalvez², Xia Jin¹, Robert C. Rose¹, Ching-Juh Lai², Jacob J. Schlesinger¹

¹University of Rochester School of Medicine and Dentistry, Rochester, NY, United States, ²National Institutes of Health, Bethesda, MD, United States

458

COMMUNITY PARTICIPATION PROJECT FOR DENGUE PREVENTION AND CONTROL IN PUERTO RICO: KNOWLEDGE, ATTITUDES, AND PRACTICES IN 2005-2006

Aurimar Ayala-López, Carmen Pérez-Guerra

Centers for Disease Control and Prevention, San Juan, PR, United States

Flaviviridae – West Nile

459

ECOLOGICAL OBSERVATIONS ON THE WEST NILE VIRUS OUTBREAK IN DAVIS, CALIFORNIA, 2006

Carrie Nielsen, Sarah Wheeler, Veronica Armijos, **William Reisen**
University of California, Davis, Davis, CA, United States

460

ADIPOCYTES ARE A POTENTIAL TARGET FOR WEST NILE VIRUS INFECTION

Haiyan Luo, Bruce Cropp, James Kelley, Pratibha V. Nerurkar, Yeung Luo, Saguna Verma, **Vivek R. Nerurkar**

University of Hawaii, Honolulu, HI, United States

461

RAPID GIS-BASED PROFILING OF WEST NILE VIRUS TRANSMISSION: ENVIRONMENTAL FACTORS ASSOCIATED WITH AN URBAN-SUBURBAN OUTBREAK IN NORTHEAST OHIO, USA

A. Desiree La Beaud¹, Ann Marie Gorman¹, Joseph Koonce¹, Christopher Kippes², John McLeod², Joseph Lynch², Charles H. King¹, Anna M. Mandalakas¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Cuyahoga County Board of Health, Cleveland, OH, United States

462

EVALUATION OF MOSQUITOES AS SYRINGES FOR ARBOVIRUS VIREMIA DETERMINATIONS IN SMALL VERTEBRATES

Rebekah J. Kent, Nicholas Komar

Centers for Disease Control and Prevention, Fort Collins, CO, United States

463

PREVALENCE OF HUMAN IGG ANTIBODIES AGAINST FLAVIVIRUSES IN CENTRAL AND NORTHERN AFGHANISTAN

Gerhard Dobler¹, Michael Faulde², Roman Wölfel¹, Martin Pfeffer¹, Sandra Essbauer¹

¹Bundeswehr Institute of Microbiology, Munich, Germany, ²Bundeswehr Central Institute, Koblenz, Germany

464

RELATIONSHIPS BETWEEN COMBINED SEWER OVERFLOWS AND WEST NILE VIRUS: SPATIAL PATTERNS OF MOSQUITO VECTORS, AVIAN HOSTS AND HUMAN CASES IN FULTON COUNTY, GA

Jodi Vanden Eng¹, Rosmarie Kelly², Priti Kolhe³, Steven R. Katkowsky³, James Howgate³, Jerry Kerce³, Daniel Mead⁴, Tom Burkot¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States,

²Georgia Division of Public Health, Atlanta, GA, United States, ³Fulton County Department of Health and Wellness, Atlanta, GA, United States,

⁴Southeastern Cooperative Wildlife Disease Study, College of Veterinary Medicine, The University of Georgia, Athens, GA, United States

465

CAPTIVE ANIMALS AS SENTINELS FOR WEST NILE VIRUS TRANSMISSION IN ZOOS FROM YUCATAN AND TABASCO STATES OF MÉXICO

Fernando I. Puerto¹, Maria A. Lorono-pino¹, José A. Farfan-Ale¹, Julian E. Garcia-Rejon¹, Julian E. Garcia-Rejon¹, Rosa C. Cetina-Trejo¹, Ana C. Hidalgo-Martinez², Celso Ramos², Ely del Pilar Rosado-Paredes¹, Luis F. Flores-Flores¹

¹Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, ²Instituto Nacional de Salud Publica, Cuernavaca, Morelos, Mexico

466

GENETIC VARIABILITY OF WEST NILE VIRUS IN SENEGAL

Anne Dupressoir¹, Pablo M de A. Zanotto², Juliana Velasco de Castro Oliveira², Lang Girault¹, Ousmane Faye¹, Mireille Mondo¹, Yamar Ba¹, Ibrahimia Dia¹, Mawlouth Diallo¹, Amadou Alpha Sall¹

¹Institut Pasteur Dakar, Dakar, Senegal, ²Laboratório de Evolução Molecular e Bioinformática, Sao Paulo, Brazil

(ACMCIP Abstract)

467

MULTIPLE FACTORS INFLUENCE WEST NILE VIRUS SEROPREVALENCE IN WILD MAMMALS

Andres Gomez¹, A. Marm Kilpatrick², Laura D. Kramer³, Alan P. Dupuis³, Matthew J. Jones³, Scott J. Goetz⁴, Peter P. Marra⁵, Peter Daszak², A. Alonso Aguirre⁶

¹Columbia University, New York, NY, United States, ²The Consortium for Conservation Medicine, New York, NY, United States, ³Wadsworth Center, New York State Department of Health, Albany, NY, United States, ⁴Woods Hole Research Center, Falmouth, MA, United States, ⁵Smithsonian Migratory Bird Center, National Zoological Park, Washington, DC, United States, ⁶Wildlife Trust, New York, NY, United States

468

INTRACELLULAR LOCALIZATION, MEMBRANE ASSOCIATION AND PROCESSING OF WNV NY99 STRAIN NS4B

Pakieli H. Kaufusi, Richard Yanagihara, Vivek R. Nerurkar
University of Hawaii, Honolulu, HI, United States

469

KNOWLEDGE, ATTITUDES, AND PRACTICES ABOUT WEST NILE VIRUS AMONG HISPANICS IN SAN DIEGO COUNTY - 2006

Jeffrey Bethel¹, Michele Ginsberg², Stephen Waterman¹
¹*Centers for Disease Control and Prevention, San Diego, CA, United States,*
²*County of San Diego Health and Human Services Agency, San Diego, CA, United States*

470

PHYLOGENETIC RELATIONSHIPS OF WEST NILE VIRUS ISOLATES COLLECTED IN FLORIDA DURING 2005

Daniel M. Chisenhall, Christopher N. Mores
University of Florida - Florida Medical Entomology Laboratory, Vero Beach, FL, United States

471

OPTIMIZATION OF A CHIMERIC DEN-2/WEST NILE VACCINE

O'Neil Wiggan¹, Claire Y.-H. Huang², Shawn J. Silengo², Richard M. Kinney¹, Jorge E. Osorio³, **Dan T. Stinchcomb**¹
¹*InViragen, Inc., Fort Collins, CO, United States,* ²*Division of Vector-Borne Infectious Diseases of the Centers for Disease Control and Prevention, Fort Collins, CO, United States,* ³*University of Wisconsin, Madison, WI, United States*

472

WNV-INDUCED MORBIDITY AND MORTALITY IN BALB/C MICE

Xiomara Mercado¹, Yisel A. Rivera¹, Elizabeth Hunsperger², Idali Martinez¹
¹*University of Puerto Rico Medical Sciences Campus, San Juan, PR, United States,* ²*Centers for Diseases Control and Prevention, Division of Vector-Borne Infectious Disease, Dengue Branch, San Juan, PR, United States*

473

UPDATE ON THE STATUS OF THE NATIONAL WEST NILE VIRUS INFECTION AND PREGNANCY OUTCOMES STUDY

Dawn Wesson¹, Scott McRae¹, Ken Swan¹, Alison F. Hinckley², Xu Xiong¹, Patricia Kissinger¹, Patricia Sirois¹, Edward B. Hayes², Sonja Rasmussen³, Stephanie Kuhn², Dan O'Leary², Pierre Buekens¹, Gabriella Pridjian¹, Mike Henson⁴
¹*Tulane University, New Orleans, LA, United States,* ²*Centers for Disease Control and Prevention, Fort Collins, CO, United States,* ³*Centers for Disease Control and Prevention, Atlanta, GA, United States,* ⁴*Purdue University, Hammond, IN, United States*

Kinetoplastida – Diagnosis and Treatment

474

PREPARATION AND CHARACTERIZATION OF LIVE ATTENUATED STRAIN OF L.MAJOR

Alireza Khabiri, Farideh Bagheri, Mehdi Assmar
Pasteur Institute of Iran, Tehran, Islamic Republic of Iran

475

IDENTIFICATION OF GENETIC VARIATION AND POLYMORPHISMS PRODUCING DIFFERING MULTILOCUS ENZYME ELECTROPHORESIS PATTERNS IN NEW WORLD LEISHMANIA SPECIES

Pablo Tsukayama¹, Nicolás Veland², Jorge Arévalo², Carmen Lucas¹, David J. Bacon¹
¹*Naval Medical Research Center Detachment, Lima, Peru,* ²*Instituto de Medicina Tropical "Alexander von Humboldt" - Universidad Peruana Cayetano Heredia, Lima, Peru*

476

PHASE III TRIAL OF PAFURAMIDINE MALEATE (DB289), A NOVEL ORAL DRUG, FOR TREATMENT OF FIRST STAGE SLEEPING SICKNESS

Christian Burri¹, Gabriele Pohlig¹, Sonja Bernhard¹, Alain Mpanya Kabeya², Jean-Pierre Fina Lubaki³, Alfred Mpoo Mpoto³, Kambau Manesa Grati⁴, Florent Mbo Kuikumbi², Alain Fukinsia Mintwo², Auguy Kayeye Munungi², Jose Tito Bage⁵, Stephen Macharia⁶, Constantin Miaka Bilenge², Victor Kande Mesu², Jose Ramon Franco⁶, Ndinga Dieyi Ditunganga⁵, **Carol A. Olson**⁷
¹*Swiss Tropical Institute, Swiss Center for International Health, Basel, Switzerland,* ²*Programme Nationale de Lutte contre la Trypanosomiase Humaine Africaine, Kinshasa, Democratic Republic of the Congo,* ³*Evangelic Hospital, Vanga, Democratic Republic of the Congo,* ⁴*Evangelic Hospital, Kikongo, Democratic Republic of the Congo,* ⁵*Instituto de Combate e de Controlo das Tripanosomias, Luanda, Angola,* ⁶*Malteser International, Yei, Sudan,* ⁷*Immtech Pharmaceuticals, Inc., Vernon Hills, IL, United States*

477

REPOSITIONING OF PDE TARGET CHEMISTRY TO PROMOTE DRUG DISCOVERY FOR SLEEPING SICKNESS

Gillian E. Robbins, Robert K. Campbell
Marine Biological Laboratory, Woods Hole, MA, United States
(ACMCIP Abstract)

478

AMERICAN TRYPANOSOMIASIS (CHAGAS DISEASE) AMONG LATIN AMERICAN IMMIGRANTS IN A CARDIOLOGY CLINIC IN LOS ANGELES, CALIFORNIA

Paul H. Nieberg¹, Glenn E. Mathisen¹, Sheba K. Meymandi¹, Louis V. Kirchhoff²
¹*Olive View-UCLA Medical Center, Sylmar, CA, United States,* ²*University of Iowa, Iowa City, IA, United States*

479

THE WIDE CLINICAL SPECTRUM OF *LEISHMANIA VIANNIA BRAZILIENSIS* INFECTION IN THE STATE OF CEARÁ, NORTHEASTERN BRAZILAnastacio Q. Sousa¹, Telma B. Queiroz¹, Margarida M. Pompeu¹, Jose W. Lima¹, Richard D. Pearson²¹Federal University of Ceará and Hospital São José, Fortaleza, Ceará, Brazil,²University of Virginia School of Medicine, Charlottesville, VA, United States

480

RAPID DIAGNOSIS OF HUMAN LEISHMANIASIS SPECIES USING A RAPID CELLULOSE ACETATE ELECTROPHORESIS (CAE)

Juan Mendez, Kashinath Ghosh, Peter J. Weina

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

481

COST-EFFECTIVENESS OF ALGORITHMS FOR POPULATION SCREENING OF HUMAN AFRICAN TRYPANOSOMIASISPascal P.L. Lutumba¹, Filip Meheus², Jo Robays¹, Constantin Miaka³, Victor Kande⁴, Philippe Büscher¹, Bruno Dujardin⁵, Marleen Boelaert¹¹Institute of Tropical Medicine, Antwerp, Belgium, ²Royal Tropical Institute(KIT), Amsterdam, Netherlands Antilles, ³Ministry of Health, Kinshasa,Democratic Republic of the Congo, ⁴National Control Program against

Human African Trypanosomiasis, Kinshasa, Democratic Republic of the

Congo, ⁵Ecole de santé publique/Université libre de Bruxelles, Brussels,

Belgium

482

CANINE VISCERAL LEISHMANIASIS DIAGNOSIS IN BRASILWilma A. Buzetti¹, Nina Mari Queiroz¹, Rita de Cassia Viveiros¹, Karen Ingrid Tasca¹, Flavia Luna Lima¹, Juliana de Assis¹, Michely S. Tenorio¹, Rosângela Zacarias Machado², Tricia Maria Oliveira²¹UNESP, Ilha Solteira, SP, Brazil, ²UNESP, Jaboticabal, SP, Brazil

(ACMCIP Abstract)

483

DEVELOPMENT OF A FIELD-USABLE ASSAY FOR DETECTION OF LEISHMANIA PARASITES IN SAND FLIESKirti Dave¹, Adeline S. Chan², Derek Smith², Sonia Dave¹, Ioana Brasov², Russell E. Coleman², Edgar D. Rowton²¹VecTOR Test Systems Inc, Thousand Oaks, CA, United States, ²Department

of Entomology, Walter Reed Army Institute of Research, Silver Spring, MD,

United States

Malaria – Biology and Pathogenesis

484

CHITINASE: ACTIVE RECOMBINANT PROTEIN FROM *PLASMODIUM VIVAX*Satoru Takeo¹, Daisuke Hisamori¹, Shusaku Matsuda¹, Joseph Vinetz², Jetsumon Sattabongkot³, Takafumi Tsuboi¹¹Ehime University, Matsuyama, Japan, ²Division of Infectious Diseases,University of California at San Diego, La Jolla, CA, United States, ³United

States Army Medical Component-Armed Forces Research Institute of the

Medical Sciences, Bangkok, Thailand

485

USE OF GLOBAL PROTEOMICS TO DEFINE PROTEIN PROFILES OF SEVERE DISEASE: AN INVESTIGATION ON SEVERE MALARIA

Evelyn N. Gitau

Kenya Medical Research Institute (KEMRI)/Centre for Geographic Medicine Research (CGMR)-Coas, Kilifi, Kenya

(ACMCIP Abstract)

486

RECOVERY OF ENDOTHELIAL FUNCTION IN SEVERE FALCIPARUM MALARIA CORRELATES WITH RECOVERY OF PLASMA ARGININE CONCENTRATIONS AND FALL IN BLOOD LACTATETsin Yeo¹, Daniel Lampah², Retno Gitawati³, Emiliana Tjitra⁴, Enny Kenangalem², Yvette McNeil¹, Don Granger⁵, Bert Lopansri⁵, Brice Weinberg⁶, Ric Price¹, Steve Duffull⁷, David Celermajer⁸, Nick Anstey¹¹Menzies School of Health Research, Darwin, Australia, ²Menzies School of

Health Research-National Institute of Health Research and Development

Research Program, Timika, Papua, Indonesia, ³National Institute of HealthResearch and Development, Jakarta, Indonesia, ⁴National Institute of HealthResearch and Development, Darwin, Indonesia, ⁵University of Utah, SaltLake City, UT, United States, ⁶Duke and VA Medical Centers, Durham, NC,United States, ⁷University of Otago, Dunedin, New Zealand, ⁸University of

Sydney, Sydney, Australia

487

ENDOGENOUS NITRIC OXIDE PRODUCTION IN INTRAERYTHROCYTIC STAGES OF THE MALARIA PARASITE *PLASMODIUM FALCIPARUM*

Graciela R. Osters, Fuyuki Tokumasu, James A. Dvorak

National Institutes of Health, Rockville, MD, United States

488

MOLECULAR BASIS OF *PLASMODIUM FALCIPARUM* RECEPTOR BAEBL FOR BINDING TO ERYTHROCYTE LIGAND GLYCOPHORIN C

Lubin Jiang, Sai Duriseti, Peter Sun, Louis H. Miller

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

489

DIFFERENTIAL *IN VIVO* AND *IN VITRO* EXPRESSION OF MAESTRO PREDICTED MITOCHONDRIAL PROTEINS IN *PLASMODIUM FALCIPARUM*Carolyn Dong¹, Sarah Calvo², Johanna Daily¹, Daouda Ndiaye³, Vamsi Mootha², Dyann Wirth¹¹Department of Immunology and Infectious Disease, Harvard School ofPublic Health, Boston, MA, United States, ²Broad Institute of Harvard andMIT, Cambridge, MA, United States, ³Department of Parasitology and

Mycology, Dantec Hospital, Cheikh Anta Diop University, Dakar, Senegal

490

THE PLASMODIUM SPOROZOITE AND ERYTHROCYTIC STAGE (SES) PROTEIN HAS A UNIQUE SURFACE LABELING PATTERN ON THE SPOROZOITE AND APPEARS TO PLAY A ROLE IN SPOROZOITE INVASION OF MOSQUITO SALIVARY GLANDS

Alexis N. LaCrue, Roy J. Lowery, Renee N. Roberts, Michael M. Kariuki, Brenda T. Beerntsen
University of Missouri-Columbia, Columbia, MO, United States

491

A CHEMICAL BIOLOGY APPROACH TO UNDERSTAND CYSTEINE PROTEASE FUNCTION IN *P. FALCIPARUM*

Doron Greenbaum
University of Pennsylvania, Philadelphia, PA, United States

492

IMPACT OF REPEATED ADMINISTRATION OF ACTS ON ANEMIA AND ANTIMALARIAL IMMUNITY IN MALI

Sekou Toure¹, Bakary Fofana¹, Issaka Sagara¹, Bakary Sidibe¹, Demba Dembele¹, Amadou Togo¹, Alassane Dicko¹, Christopher V. Plowe², Ogobara K. Doumbo¹, Abdoulaye A. Djimde¹
¹*University of Bamako, Bamako, Mali*, ²*University of Maryland, Baltimore, MD, United States*

493

ANALYSIS OF PFE0565W AND PF11_0394, TWO *PLASMODIUM FALCIPARUM* SPOROZOITE GENES

Maggie Schlarman, Michael Kariuki, Alexis LaCrue, Ruguang Ou, Brenda Beerntsen
University of Missouri-Columbia, Columbia, MO, United States

Malaria - Chemotherapy

494

COMPARISON OF CHLORPROGUANIL-DAPSONE WITH A COMBINATION OF CHLOROQUINE AND SULFADOXINE-PYRIMETHAMINE IN CHILDREN WITH MALARIA IN JOS, NIGERIA

Ogunfowokan Paul Oluwagbenga¹, Dankyau Musa², Madaki J. Aboi¹
¹*Jos University Teaching Hospital, Jos, Nigeria*, ²*ECWA Evangel Hospital Jos, Nigeria*

495

COMPARATIVE EFFICACY OF AN ARTEMISININ COMBINATION THERAPY (ACT) AND A NON-ARTEMISININ COMBINATION THERAPY IN THE MANAGEMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN IBADAN, NIGERIA

Hannah O. Dada-Adegbola, Olusegun G. Ademowo, Cathrine O. Falade
College of Medicine, University of Ibadan, Ibadan, Nigeria

496

EFFICACY OF NON-CONTROLLED INTERMITTENT PREVENTIVE TREATMENT IN PREGNANT (IPTP) WOMEN IN CÔTE D'IVOIRE

Toure A. Offianan¹, Berenger Aristide Ako¹, Louis Kone Penali¹, Messoum Nogbou², Tidjane Swa³, Bernadin B¹, Bernadin Gba⁴, Soumahoro Adama¹, Issiaka Bassirika¹
¹*Pasteur Institute, Abidjan, Cote d'Ivoire*, ²*Maternity Yopougon, Abidjan, Cote d'Ivoire*, ³*Maternity Yopougon, Abidjan, Cote d'Ivoire*, ⁴*General Hospital, Bonoua, Cote d'Ivoire*

497

USING SMOOTHED GROWTH CURVES FROM ANTHROPOMETRIC REFERENCE POPULATIONS IN MALARIA ENDEMIC COUNTRIES TO DESIGN AGE- AND HEIGHT-BASED ALTERNATIVES TO WEIGHT-BASED DOSING FOR ARTEMISININ-BASED COMBINATIONS IN THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA

Dianne J. Terlouw¹, Daniel J. Hayes¹, Stef van Buuren², Isabela Ribeiro³, Piero L. Olliaro⁴, Feiko O. ter Kuile¹
¹*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*, ²*The Netherlands Organization for Applied Scientific Research (TNO), Leiden, The Netherlands*, ³*Drugs for Neglected Diseases Initiative, Geneva, Switzerland*, ⁴*World Health Organization Special Programme for Research and Training in Tropical Diseases/Product Research and Development, Geneva, Switzerland*

498

'MALARIA DISCIPLINE' AND NEUROPSYCHIATRIC CASES AMONG US TROOPS IN SE ASIA: 1960-1975

David P. Adams
London School of Hygiene and Tropical Medicine, Savannah, GA, United States

499

QUALITY OF ANTIMALARIAL DRUGS SOLD AT RETAIL OUTLETS IN TANZANIA, 2005. RESULTS OF A NATIONALLY REPRESENTATIVE SURVEY

Harparkash Kaur¹, Catherine Goodman², Irene Masanja³, Eloise Thompson¹, Katy-Anne Thompson¹, **S. Patrick Kachur**⁴
¹*London School of Hygiene and Tropical Medicine, London, United Kingdom*, ²*KEMRI/Wellcome Collaborative Programme, Nairobi, Kenya*, ³*Centers for Disease Control and Prevention/Ikara Health Research and Development Centre Malaria Programme in Tanzania, Dar-es-Salaam, United Republic of Tanzania*, ⁴*Centers for Disease Control and Prevention, Atlanta, GA, United States*

500

HIV-1 INHIBITORS AND MALARIA

Tina S. Skinner-Adams
Queensland Institute of Medical Research, Brisbane, Australia

501

MURINE MALARIA TREATMENT MODEL FOR ANTIMALARIAL COMBINATIONS

Kevin T. Batty¹, Brioni R. Moore¹, Christopher Andrzejewski¹, Jillian R. Stoney¹, Angela S. Law¹, Jeffrey D. Jago¹, Peter L. Gibbons¹, Kenneth F. Ilett²
¹*Curtin University of Technology, Perth, Australia*, ²*University of Western Australia, Perth, Australia*

502

MEFLOQUINE-INDUCED DISRUPTION OF CALCIUM HOMEOSTASIS IN MAMMALIAN CELLS MAY BE DUE TO AN IONOPHORIC EFFECT SIMILAR TO THAT OF IONOMYCINDiana Caridha, Debra Yourick, Tom Hudson, **Geoffrey S. Dow**
Walter Reed Army Institute of Research, Silver Spring, MD, United States

(ACMCIP Abstract)

503

IN SILICO PHARMACOPHORE FOR ANTIMALARIAL ACTIVITY OF THE 4(1H)-QUINOLONES TO AID DISCOVERY OF NOVEL CAUSAL PROPHYLACTIC DRUG CANDIDATES**Apurba K. Bhattacharjee**¹, Lucia Gerena¹, Montip Gettyacamin², Kevin Pitzer¹, Wilbur K. Milhous¹, Dennis E. Kyle¹¹*Division of Experimental Therapeutics, Walter Reed Army Institute of Research, Silver Spring, MD, United States*, ²*Department of Veterinary Medicine, Armed Forces Research Institute for the Medical Sciences, Bangkok, Thailand*

504

ASSESSMENT OF THE EFFECTIVENESS OF ARTEMETHER PLUS LUMEFANTRINE VERSUS ARTESUNATE PLUS AMODIAQUINE FOR THE TREATMENT OF CHILDREN WITH UNCOMPLICATED PLASMODIUM FALCIPARUM MALARIA**Samuel Adjei***Ghana Health Service, Agona-Ash, Ghana*

505

EVIDENCE FOR THE NON-ESSENTIALITY OF THE PLASMODIUM CANDIDATE DRUG TARGET ENOYL ACP REDUCTASEMin Yu¹, **T. R. Santha Kumar**², Louis J. Nkrumah², Photini Sinnis³, Alida Coppi³, Juan-Carlos Valderramos¹, Paul Gatraud⁴, Laurent Kremer⁴, Catherine Vilcheze², Guy A. Schieher⁵, David P. Jacobus⁵, Joel S. Freundlich⁶, Alfonso Mendoza⁷, José-Francisco Garcia Bustos⁷, William R. Jacobs Jr.⁸, James C. Sacchettini⁹, David A. Fidock¹¹*Columbia University, New York, NY, United States*, ²*Albert Einstein College of Medicine, Bronx, NY, United States*, ³*New York University, New York, NY, United States*, ⁴*Universite Montpellier II, Montpellier, France*, ⁵*Jacobus Pharmaceuticals, Princeton, NJ, United States*, ⁶*Princeton University, Princeton, NJ, United States*, ⁷*GlaxoSmithKline, Tres Cantos, Spain*, ⁸*Howard Hughes Medical Institute, Albert Einstein College of Medicine, Bronx, NY, United States*, ⁹*Texas A&M University, College Station, TX, United States*

506

DISPOSITION OF ARTESUNATE AND MEFLOQUINE (ASMQ) AFTER ADMINISTRATION AS LOOSE (L) AND FIXED-DOSE COMBINATION (F) TO ADULT THAI HEALTHY VOLUNTEERS AND UNCOMPLICATED FALCIPARUM MALARIA PATIENTSVis Navaratnam¹, Sornchai Looareesuwan², Surash Ramanathan¹, Sharif Mansor¹, Jean-René Kiechel³, Michel Vaillant⁴, Walter (Bob) R. Taylor⁵, **Piero L. Olliaro**⁶¹*National Centre For Drug Research, Universiti Sains Malaysia (USM), Pulau Pinang, Malaysia*, ²*Mahidol University, Bangkok, Thailand*, ³*Drugs for Neglected Diseases initiative (DNDi), Geneva, Switzerland*, ⁴*Centre de Recherches Publiques (CRP)- Santé, Luxembourg, Luxembourg*, ⁵*Oxford University - National Institute of Infectious and Tropical Diseases, Hanoi, Vietnam*, ⁶*World Health Organization (WHO) Special Programme for Research and Training in Tropical Diseases (TDR), Geneva, Switzerland*

507

ACUTE RESPIRATORY DISTRESS SYNDROME DUE TO VIVAX MALARIA SUCCESSFULLY TREATED WITH EXCHANGE TRANSFUSION**Andrew Nguyen**, Victor Jimenez, Rodrick Go*Stony Brook University Medical Center and Northport Veterans Affairs Medical Center, Stony Brook, NY, United States*

508

LACK OF BENEFIT FROM ANTIMALARIAL TREATMENT TO CLEAR P. FALCIPARUM PARASITEMIA IN THE NORTH SAVANNA REGION OF MALI**Mamadou Weleba Bagayoko**¹, Ousmane Aliou Koita¹, Aliou Coulibaly², Aliou Sissako¹, Mamadou M. Keita², Sidy Sidy¹, Salif Mangara¹, Youssouf Samake¹, Boubacar Diallo¹, Lansana Sangare¹, Ibrahim Dolo¹, Donald J. Krogstad³¹*Faculty of Science, University of Bamako, Bamako, Mali*, ²*Faculty of Medicine, University of Bamako, Mali*, ³*School of Public Health and Tropical Medicine, Tulane University, LA, United States*

510

STUDY DESIGN FOR ANTIMALARIAL DEVELOPMENT: INCREASING THE EFFICIENCY OF PHASE II EFFICACY STUDIES IN HUMAN SUBJECTS**Fawaz Mzayek**¹, Ousmane A. Koita², Aliou Sissako², Seydou O. Doumbia², Donald J. Krogstad¹¹*Tulane University Health Sciences Center, New Orleans, LA, United States*, ²*University of Bamako, Bamako, Mali***Malaria – Drug Development**

511

DIFFERENT APPROACHES TO THE EXOERYTHROCYTIC MODEL FOR HUMAN MALARIA IN MICEP. Castañeda, J. Pinel, I. Camino, MJA Almela, S. Lozano, E. Alonso, D. Gargallo, **Elena Jiménez***GlaxoSmithKline, Tres Cantos, Spain*

(ACMCIP Abstract)

512

PRELIMINARY PHARMACOKINETIC/PHARMACODYNAMIC STUDY OF 4(1H)-PYRIDONE GW308678 IN A MURINE PLASMODIUM YOELII MODEL OF MALARIAAdolfo García-Pérez, Belén Jiménez-Díaz, Beatriz Rodríguez, Angela Alvarez, Teresa Mulet, Sara Viera, Vanesa Gómez, Helena Garuti, Alejandra Fernández, Eduardo Romanos, Iñigo Angulo-Barturen, **Santiago Ferrer**, Domingo Gargallo*GlaxoSmithKline, Tres Cantos, Spain*

(ACMCIP Abstract)

513

ANALYSIS OF *PLASMODIUM*-STAGE POPULATION DISTRIBUTION IN MURINE MODELS OF MALARIA BY FLOW CYTOMETRY USING AUTOFLUORESCENCE AND YOYO-1

Belén Jiménez-Díaz, Angela Alvarez, Teresa Mulet, Sara Viera, Vanesa Gómez, Helena Garuti, Alejandra Fernández, Carmen Bravo, Domingo Gargallo, Iñigo Angulo-Barturen

GlaxoSmithKline, Tres Cantos, Spain

(ACMCIP Abstract)

514

CROSSOVER TRIAL TO TEST A 2100 MG DOSE OF AQ-13 AND THE EFFECT OF FOOD ON ITS BIOAVAILABILITY

Fawaz Mzayek, Haiyan Deng, Azam Hadi, Juan J. Lertora, Donald J. Krogstad

Tulane University, New Orleans, LA, United States

515

NOVEL *IN VITRO* CULTURE OF LIVER STAGE HUMAN MALARIA FOR SCREENING OF NEW ANTI-MALARIAL COMPOUNDS

Rachaneeporn Jenwithisuk¹, Ratawan Ubalee¹, Panadda Krairojananan¹, Wachira Suktawonjaroenpon¹, Bousaraporn Tippayachai¹, Nongnuch Yimamnuaychok¹, Nattawan Rachaphaew¹, Chulaluck Charurojapakorn¹, Namtip Trongnipatt¹, Ampornpan Kengluetcha¹, Surasak Leelaudomlapi², Kesinee Chotivanich³, Rachanee Udomsangpetch⁴, Jetsumon Sattabongkot¹

¹*United States Army Medical Component-Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand*, ²*Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand*, ³*Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand*, ⁴*Faculty of Science, Mahidol University, Bangkok, Thailand*

516

PURINE TRANSPORT IN *PLASMODIUM FALCIPARUM*

Neils B. Quashie, Lisa Ranford-Cartwright, Harry de Koning

Institute of Biomedical and Life Sciences, University of Glasgow, Glasgow, United Kingdom

517

SAFETY ASSESSMENT OF AZITHROMYCIN PLUS CHLOROQUINE FOR THE TREATMENT AND PREVENTION OF MALARIA

Larry Ritzhaupt¹, Beverly A. Betley¹, Damien Hirsch², Donald R. Jaffe¹, Drew Lewis¹, William McConnell¹, Liz Mridha³, Konrad Tomaszewski³, Cynthia de Luise²

¹*Pfizer Inc, New London, CT, United States*, ²*Pfizer Inc., New York, NY, United States*, ³*Pfizer Inc., Sandwich, United Kingdom*

518

DIFFERENTIAL EFFECTS OF CYSTEINE PROTEASE INHIBITORS ON *PLASMODIUM FALCIPARUM* SEXUAL STAGE PARASITES

Saliha Eksi, Beata Czesny, Samrawit Goshu, Kim C. Williamson

Loyola University Chicago, Chicago, IL, United States

(ACMCIP Abstract)

519

PREDICTORS OF OUTCOME IN THE PHASE II TRIAL OF DB289 AND ARTESUNATE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA

L. Kalilani¹, C. Olson², D. Morris³, J. Isaacson³, N. Tangpukdee⁴, S. Krudsood⁴, S. Looareesuwan⁴, J. Longstreth⁵, S. Meshnick⁶

¹*University of Malawi, College of Medicine, Blantyre, Malawi*, ²*Immitech Pharmaceuticals Inc, Vernon Hills, IL, United States*, ³*WebbWrites, Durham, NC, United States*, ⁴*Hospital for Tropical Diseases, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand*, ⁵*Longstreth Associates, Mundelein, IL, United States*, ⁶*University of North Carolina, Chapel Hill, NC, United States*

520

PHASE 1 INVESTIGATION TO ASSESS THE RENAL AND OPHTHALMIC EFFECTS OF TAFENOQUINE, A NOVEL ANTI-MALARIAL DRUG

Kevin Leary¹, D. Craig Brater², Corina van de Pol³, Khadeeja Pruet⁴, Caron Kerr⁴, James Veazey⁵, Nagercoil Nithyanandan⁶, Colin Ohrt⁷

¹*Uniformed Services University of Health Sciences, Bethesda, MD, United States*, ²*Indiana University School of Medicine, Indianapolis, IN, United States*, ³*AcuFocus, Inc., Irvine, CA, United States*, ⁴*GlaxoSmithKline, Upper Providence, United Kingdom*, ⁵*U.S. Army Medical Materiel Development Activity, Fort Detrick, MD, United States*, ⁶*CCRU, Berkshire, United Kingdom*, ⁷*Walter Reed Army Institute of Research, Silver Spring, MD, United States*

Malaria – Drug Resistance

521

DETECTION OF CHLOROQUINE RESISTANCE IN *P. FALCIPARUM*: EVALUATION OF MOLECULAR MARKERS IN CLINICAL ISOLATES FROM NORTHEAST INDIA

Mohan L. Dubey¹, Sandeep K. Shrivastava¹, J. Mahanta², Nancy Malla¹, R. C. Mahajan¹

¹*Department of Parasitology, Postgraduate Institute of Medical Education and Research, Chandigarh, India*, ²*Regional Medical Research Centre (ICMR), Dibrugarh, Assam, India*

522

RESPONSE OF *FALCIPARUM* MALARIAL PARASITE TO STANDARD TEST DOSE OF CHLOROQUINE IN PUNJAB, PAKISTAN

Saleem M. Rana

Directorate General Health Services Punjab, Lahore, Pakistan

523

RAPID DETECTION OF DIHYDROFOLATE REDUCTASE RESISTANCE ALLELES IN *PLASMODIUM FALCIPARUM* USING REAL-TIME PCR WITH LOCKED NUCLEIC ACID TAQMAN PROBES

Olusola Ojurongbe¹, Adetayo F. Fagbenro-Beyioku², Juergen F. Kun³, Peter G. Kremsner³

¹*Ladoke Akintola University of Technology, Osogbo, Osun State, Nigeria*, ²*College of Medicine, University of Lagos, Idi Araba, Lagos, Nigeria*, ³*Institute of Tropical Medicine, University of Tuebingen, Tuebingen, Germany*

524

CLEARANCE OF AMODIAQUINE-RESISTANT *PLASMODIUM FALCIPARUM* IN NIGERIAN CHILDREN BY IMMUNOGLOBULIN G ANTIBODIES TO THE 19-KDA C-TERMINAL REGION OF MEROZOITE SURFACE PROTEIN 1 (MSP-1₁₉)

Onikepe A. Folarin¹, Christian T. Happi¹, Grace O. Gbotosho¹, Chiaka Anumudu², Dare O. Idowu², Akintunde Sowunmi¹, Rose-Angela Nwugba², Olufunsho O. Olorunsogo³, Wilbur Milhous⁴, Dyann F. Wirth⁵, Ayoade M. Oduola⁶

¹Malaria Research Lab, Institute of Advanced Medical Research and Training, College of Medicine, University of Ibadan, Ibadan, Nigeria, ²Department of Zoology, University of Ibadan, Ibadan, Nigeria, ³Department of Biochemistry, University of Ibadan, Ibadan, Nigeria, ⁴Division of Experimental Therapeutics, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁵Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, United States, ⁶Special Programme for Research and Training in Tropical Diseases (WHO/TDR), Geneva, Switzerland

(ACMCIP Abstract)

525

IDENTIFICATION OF SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS) IN *PLASMODIUM FALCIPARUM* DHFR, PFDHPS AND PFCRT GENES USING A MICROSPHERE-BASED MINISEQUENCING ASSAY

Carola J. Salas, Stella M. Chenet, David J. Bacon

US Naval Medical Research Center Detachment, Lima, Peru

(ACMCIP Abstract)

526

MUTATIONAL ANALYSIS OF THE *DIHYDROFOLATE REDUCTASE* AND *DIHYDROPTEROATE SYNTHASE* GENES FROM *PLASMODIUM VIVAX* IN ISOLATES FROM IQUITOS, PERU

Meddly L. Santolalla, Carola J. Salas, Carmen Lucas, David J. Bacon

U.S. Naval Medical Research Center Detachment, Lima, Peru

(ACMCIP Abstract)

527

SELECTION OF *PLASMODIUM FALCIPARUM* MULTIDRUG RESISTANCE GENE 1 ALLELES BY ARTEMETHER-LUMEFANTRINE IN NIGERIAN CHILDREN WITH ACUTE UNCOMPLICATED MALARIA

Christian T. Happi¹, Grace O. Gbotosho², Onikepe A. Folarin², Akintunde Sowunmi², Ahmed A. Adedeji², O. M. Bolaji², T. Balogun², Wilbur Milhous³, Dyann F. Wirth¹, Ayoade M. Oduola⁴

¹Harvard School of Public Health, Boston, MA, United States, ²Malaria Research Lab, Institute of Advanced Medical Research and Training, College of Medicine, University of Ibadan, Ibadan, Nigeria, ³Division of Experimental Therapeutics, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴Special Programme for Research and Training in Tropical Diseases (WHO/TDR), Geneva, Switzerland

528

CHARACTERIZATION OF FOUR MICROSATELLITES AROUND *PLASMODIUM VIVAX* DIHYDROFOLATE REDUCTASE (*PVDHFR*) GENE ASSOCIATED WITH PYRIMETHAMINE RESISTANCE

Mohammad T. Alam¹, Sumiti Vinayak¹, Hema Bora¹, Manoj K. Das², Neeru Singh³, Aditya P. Dash⁴, Yagya D. Sharma¹

¹All India Institute of Medical Sciences, New Delhi, India, ²National Institute of Malaria Research (Field Station), Ranchi, India, ³National Institute of Malaria Research (Field Station), Jabalpur, India, ⁴National Institute of Malaria Research, Delhi, India

529

CONSUMER PERCEPTIONS AND CARE-SEEKING FOR FEBRILE ILLNESS ASSOCIATED WITH THE AVAILABILITY OF ARTEMISININ-CONTAINING ANTIMALARIAL COMBINATION THERAPY IN RUFUJI DISTRICT TANZANIA, 2003 TO 2006

S. Patrick Kachur¹, Berty F. Elling², Emmy O. Metta², Rashid A. Khatib², Rene P. Gerrets³, Peter B. Bloland¹, Salim Abdulla²

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Centers for Disease Control and Prevention/Ikara Health Research and Development Centre Malaria Programme in Tanzania, Dar-es-Salaam, United Republic of Tanzania, ³New York University, New York, NY, United States

530

EXPANDED SURVEILLANCE TO CONFIRM THE DISAPPEARANCE OF CHLOROQUINE RESISTANT MALARIA FOLLOWING CHLOROQUINE WITHDRAWAL IN MALAWI

Fraction K. Dzinjalama¹, Miriam K. Laufer², Nicholas Connors³, Rachel Bronzan³, Shannon L. Takala², Malcolm E. Molyneux⁴, Grace Malenga⁵, Terrie E. Taylor⁶, Christopher V. Plowe²

¹University of Malawi College of Medicine, Blantyre, Malawi, ²University of Maryland School of Medicine, Baltimore, MD, United States, ³Blantyre Malaria Project, Blantyre, Malawi, ⁴Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ⁵Malaria Alert Center, Blantyre, Malawi, ⁶Blantyre Malaria Project and Michigan State University, Blantyre, Malawi

(ACMCIP Abstract)

531

DNA MISMATCH REPAIR IN *PLASMODIUM FALCIPARUM*: POSSIBLE MECHANISM FOR ACCELERATED DRUG RESISTANCE

Meryl Castellini, Jeff Buguliskis, Theodore F. Taraschi

Thomas Jefferson University, Philadelphia, PA, United States

532

A TWO-STAGE MODEL OF MALARIA TRANSMISSION AND ITS IMPACT ON THE SPREAD OF RESISTANCE

David L. Smith¹, Maciej Boni², **Eili Klein**², Ramanan Laxminarayan²

¹Fogarty International Center, National Institutes of Health, Bethesda, MD, United States, ²Resources for the Future, Washington, DC, United States

533

ASSESSING THE ORIGIN AND SPREAD OF DIHYDROFOLATE REDUCTASE AND DIHYDROPTEROATE SYNTHASE MUTANT ALLELES IN *PLASMODIUM VIVAX* POPULATIONS

Vivian N, Hawkins, Stephanie Suzuki, **Carol Hopkins Sibley**
University of Washington, Seattle, WA, United States

(ACMCIP Abstract)

Malaria - Epidemiology

534

A DECISION TREE MODEL FOR ESTIMATING THE COST-EFFECTIVENESS OF RECTAL ARTESUNATE TREATMENT FOR SEVERE CHILDHOOD MALARIA AT THE COMMUNITY LEVEL

Yesim Tozan¹, Joel G. Breman²

¹The Earth Institute, Columbia University, New York, New York; Fogarty International Center, National Institutes of Health, Bethesda, MD, United States, ²Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

535

KNOWLEDGE, AVAILABILITY AND UTILIZATION OF MALARIA PREVENTION MEASURES DURING PREGNANCY IN JHARKHAND, INDIA

Blair J. Wylie¹, Neeru Singh², Jordan Tuchman¹, Lora Sabin¹, Kojo Yeboah-Antwi¹, Mrigendra P. Singh², William B MacLeod¹, Mohammed Brooks¹, Megnha Desai³, Venkatachalam Udhayakumar³, Aditya P. Dash⁴, Davidson H. Hamer¹

¹Center for International Health and Development, Boston University, Boston, MA, United States, ²National Institute for Malaria Research Field Station, Jabalpur, India, ³Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴National Institute for Malaria Research, Delhi, India

537

EFFECTIVENESS OF FREE AND MARKET-BASED DISTRIBUTION STRATEGIES FOR ACHIEVING COMMUNITY-WIDE COVERAGE AND PROTECTION WITH INSECTICIDE-TREATED NETS IN RURAL TANZANIA

Rashid A. Khatib¹, Berty F. Elling¹, Gerard F. Killeen², Salim Abdulla¹, S. Patrick Kachur³

¹Centers for Disease Control and Prevention/Ikara Health Research and Development Centre Malaria Programme in Tanzania, Dar-es-Salaam, United Republic of Tanzania, ²University of Durham, Durham, United Kingdom, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

538

PATIENT-TO-PATIENT TRANSMISSION OF NOSOCOMIAL MALARIA IN KOREA

Jung-Yeon Kim¹, Jeong-Su Kim², Mi-Hyun Park¹, Shin-Hyeong Cho¹, Yeon-Joo Kim¹, Byung-Chul Lee¹, Young-A Kang³, Joon-Wook Kwon⁴, Tong-Soo Kim¹

¹Division of Malaria and Parasitic Diseases, National Institute of Health, KCDC, Seoul, Republic of Korea, ²Epidemic Intelligence Service Officer in Busan Metropolitan City, Busan, Republic of Korea, ³Division of Epidemic Intelligence Service, KCDC, Seoul, Republic of Korea, ⁴Division of Communicable Disease, KCDC, Seoul, Republic of Korea

539

TRENDS IN MALARIA DISEASE BURDEN AT HEALTH FACILITIES IN ZAMBIA

Busiku Hamainza, Pascalina Chanda, Hawela Moonga, Elizabeth K. Chizema

National Malaria Control Center, Lusaka, Zambia

540

MATHEMATICAL MODELS OF IN-HOST MALARIA REGULATION, AND INDIVIDUAL BASED APPROACH TO COMMUNITY TRANSMISSION IN HETEROGENEOUS ENVIRONMENT

David E. Gurarie, Peter A. Zimmerman, Charles H. King, Drew Kouri, Peter Thomas

Case Western Reserve University, Cleveland, OH, United States

541

HUMAN RESERVOIR OF *PLASMODIUM VIVAX* IN THE LOW TRANSMISSION VILLAGE OF PERUVIAN AMAZON

Pablo P. Yori¹, Margaret Kosek¹, Ryan Matson², Robert H. Gilman¹, Maribel Paredes³, Silvia Rengifo³, Cesar A. Banda³, Raul Chuquiyaury⁴, Joseph Vinetz²

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²University of California in San Diego, San Diego, CA, United States, ³Asociacion Benefica Prisma, Iquitos, Peru, ⁴Universidad Peruana Cayetano Heredia, Lima, Peru

542

LIMITED SEQUENCE VARIATION IN THE *PLASMODIUM FALCIPARUM* SPOOROZITE THREONINE-ASPARAGINE-RICH PROTEIN AMONG CLINICAL ISOLATES

Somchai Jongwutiwes¹, Kriangkrai Karnchaisri¹, Sunee Seethamchai², Chaturong Putaporntip¹

¹Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ²Faculty of Science, Naresuan University, Pitsanulok Province, Thailand

(ACMCIP Abstract)

543

DETERMINANTS OF INSECTICIDE-TREAT NET (ITN) USE AMONG CHILDREN UNDER FIVE YEARS OF AGE IN ZAMBIA: RESULTS OF A NATIONAL MALARIA INDICATOR SURVEY

John M. Miller¹, Amara L. Robinson², Chilandu Mukuka³, Abdirahaman Mohamed¹, Eric Seiber⁴, Pascalina Chanda³, Pauline Wamalume³, Richard W. Steketee¹

¹PATH, Seattle, WA, United States, ²Consultant, Lusaka, Zambia, ³Zambia Ministry of Health, Lusaka, Zambia, ⁴Ohio State University, Columbus, OH, United States

544

TREATMENT SEEKING BEHAVIOR OF PATIENTS WITH *P. FALCIPARUM* OR *P. VIVAX* INFECTION IN PAPUA, INDONESIA

M. Karyana¹, L. Burdan², E. Kenangalem², R. Vemuri³, N.M. Anstey⁴, E. Tjitra¹, R.N. Price⁴

¹National Institute of Health Research and Development, Jakarta, Indonesia, ²Dinas Kesehatan Kabupaten, Timika, Indonesia, ³Charles Darwin University, Darwin, Australia, ⁴Menzies School of Health Research, Darwin, Australia

545

MORPHOLOGIC AND MOLECULAR ANALYSIS OF MALARIA AND MALARIA-LIKE PARASITES IN WILD MACAQUES, SOUTHERN THAILANDSunee Seethamchai¹, Somchai Jongwutiwes², Suchinda Malaivichitnond³, Liwang Cui⁴, **Chaturong Putaporntip**²¹Department of Biology, Faculty of Science, Naresuan University, Pitsanulok, Thailand, ²Department of Parasitology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ³Department of Biology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, ⁴Department of Entomology, The Pennsylvania State University, University Park, PA, United States

(ACMCIP Abstract)

546

BEDNET OWNERSHIP IN KENYA: THE IMPACT OF 3.4 MILLION FREE NETS**Willis Akhwale**¹, Rebecca Kiptui¹, Ayub Many¹, Allen Hightower², Adam Wolkon³, Jodi Vanden Eng⁴, Mary Hamel⁵, Abdisalan Noor⁶, Abdisalan Noor⁶, S.K. Sharif⁷, Robert Buluma⁸, Abdulkadir A. Awes⁸, John Vulule⁹, Kayla Laserson⁵, Laurence Slutsker³, Laurence Slutsker³¹Division of Malaria Control, Ministry of Health, Nairobi, Kenya, ²Centers for Disease Control and Prevention-Kenya, Nairobi, Kenya, ³Malaria Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Centers for Disease Control and Prevention-Kenya, Kisumu, Kenya, ⁶KEMRI- University of Oxford - Wellcome Trust Collaborative Programme, Nairobi, Kenya, ⁷Ministry of Health, Nairobi, Kenya, ⁸Kenya National Bureau of Statistics, Nairobi, Kenya, ⁹KEMRI, Centre for Global Health Research, Kisumu, Kenya**Malaria - Immunology**

547

EVALUATION OF OXIDATIVE STRESS AND ANTI-MSP1-19 IMMUNOGLOBIN G RESPONSE TO MALARIA INFECTION IN PREGNANCY**George O. Ademowo**¹, Mathew O. Akanbi², Cathrine O. Falade¹, Alex A. Odaibo³¹College of Medicine, University of Ibadan, Ibadan, Nigeria, ²Department of Environmental Biology and Fisheries, Adekunle Ajasin University, Akungba, Nigeria, ³Department of Zoology, Parasitology Unit, University of Ibadan, Ibadan, Nigeria

548

RELATIONSHIP OF IL-18 PROMOTER POLYMORPHISM (-137 G/C) WITH SEVERE MALARIAL ANEMIA AND HYPER-PARASITEMIA IN INFANTS AND YOUNG CHILDREN**Richard Otieno**¹, Collins Ouma¹, Tom Were¹, Gordon Awandare², Gregory Davenport², John Vulule³, John Michael Ong'echa¹, Jeremy Martinson², Robert Ferrell², Douglas Perkins²¹University of Pittsburgh/KEMRI, Kisumu, Kenya, ²University of Pittsburgh, Pittsburgh, PA, United States, ³KEMRI, Kisumu, Kenya

549

DECREASED IL-10 PRODUCTION IS ASSOCIATED WITH LYMPHOCYTOSIS IN CHILDREN WITH SEVERE MALARIAL ANEMIA**Yamo Ouma**¹, Christopher Keller², Gordon Awandare³, Collins Ouma¹, Richard Otieno¹, Tom Were¹, John Vulule⁴, Z. Ng'ang'a⁵, Gregory Davenport³, John Michael Ong'echa¹, Douglas Perkins³¹University of Pittsburgh/KEMRI, Kisumu, Kenya, ²University of Pittsburgh/Lake Erie College of Osteopathic Medicine, Pittsburgh, PA, United States, ³University of Pittsburgh, Pittsburgh, PA, United States, ⁴KEMRI, Kisumu, Kenya, ⁵Kenyatta University, Nairobi, Kenya

550

THE ROLE OF PFRH INVASION LIGANDS AS TARGETS OF ANTIBODIES THAT PROTECT AGAINST *P. FALCIPARUM* MALARIA**Linda Reiling**¹, Jack S. Richards¹, Fiona J. MacCallum¹, Kristina E. Persson¹, Katherine Howell¹, Sam Kinyanjui², Kevin Marsh², Ivo Mueller³, Alan F. Cowman¹, James G. Beeson¹¹The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ²Centre for Geographic Medicine Research, Kenya Medical Research Institute, Kilifi, Kenya, ³Papua New Guinea Institute of Medical Research, Goroka, Eastern Highlands Province, Papua New Guinea

(ACMCIP Abstract)

551

THE IMPORTANCE OF THE ANTIBODY ISOTYPE RESPONSE TO *P. FALCIPARUM* MEROZOITE ANTIGENS IN PROTECTION FROM CLINICAL MALARIA**Danielle I. Stanisic**¹, Jack Richards², Fiona J. McCallum², Danny Wilson², Pascal Michon³, Christopher L. King⁴, Robin Anders⁵, Ivo Mueller⁶, James G. Beeson²¹Walter and Eliza Hall Institute of Medical Research, Parkville, Australia/Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ²Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, ³Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁴Centre for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States, ⁵LaTrobe University, Bundoora, Australia, ⁶Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

552

IN UTERO HUMORAL IMMUNE RESPONSES TO *P. VIVAX* AND *P. FALCIPARUM* ANTIGENS IN PAPUA NEW GUINEA**Danielle I. Stanisic**¹, James G. Beeson², Ivo Mueller³, Stephen Rogerson⁴, Christopher L. King⁵¹Walter and Eliza Hall Institute of Medical Research, Parkville, Australia/Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ²Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, ³Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, ⁴Department of Medicine, University of Melbourne, Parkville, Australia, ⁵Centre for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States

553

WHAT WOULD EXPLAIN THE DIFFERENCES IN SUSCEPTIBILITY OF DCS SUBSETS TO MALARIA INFECTION DURING PREGNANCY?

Aliou Mamadou Diallo¹, Delphine Aldebert², Omar Thiaw¹, Jean Charle Moreau¹, Ndiaye Malick³, Jambou Ronan⁴

¹University of Dakar, Dakar, Senegal, ²University Joseph Fourier of Grenoble, Grenoble, France, ³Institut Hygiène Service, Dakar, Senegal, ⁴Pasteur Institute of Dakar, Dakar, Senegal

(ACMCIP Abstract)

554

THE ACQUISITION AND MAINTENANCE OF ANTIBODIES AGAINST *P. FALCIPARUM* MEROZOITE ANTIGENS IN CHILDHOOD

Cleopatra K. Mugenyi¹, Kurt Lackovic², Nimmo Gicheru¹, Hellen Gatakaa¹, Gregory Fegan¹, Robin Anders³, Ian Street², Thomas Williams¹, Kevin Marsh¹, James Beeson²

¹Kenya Medical Research Institute - Wellcome Trust Research Programme CGMR-C, Kilifi, Kenya, ²Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ³La Trobe University, Melbourne, Australia

555

ESTROGEN AND PROGESTERONE SYNERGISTICALLY AFFECT RESPONSES TO *PLASMODIUM CHABAUDI* IN FEMALE C57BL/6 MICE

Erin N. Barth, Pamela W. Klein, Michele F. Hannah, **Sabra L. Klein**
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

556

TEMPORAL STABILITY OF BLOOD STAGE MALARIA IMMUNE SURROGATES OF PROTECTION IN A MALARIA HOLOENDEMIC AREA

Arlene E. Dent¹, Kiprotich Chelimo², Peter Sumba², Daniel Tisch¹, Michele Spring³, Ann Moormann¹, James Kazura¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Walter Reed Army Institute of Research, Washington, DC, United States

(ACMCIP Abstract)

557

SELENIUM LEVELS, MALARIA AND ENDEMIC BURKITT'S LYMPHOMA IN WESTERN KENYA

Peter O. Sumba¹, Michael Otieno², Dickens Kowuour¹, Chelimo Kiprotich¹, Alloys S. Orago², Paula Rosenbaum³, Ann M. Moormann⁴, Rosemary Rochford³

¹Kenya Medical Research Institute, Kisumu, Kenya, ²Kenyatta University, Nairobi, Kenya, ³SUNY Upstate Medical University, Syracuse, NY, United States, ⁴Case Western Reserve University, Cleveland, OH, United States

558

STERILE PROTECTION AGAINST MALARIA INFECTION REQUIRES TAP IN SPITE OF COMPLETELY OPERATIVE TAP-INDEPENDENT VACUOLAR CROSS-PRESENTATION PATHWAY

Dmitry Liepinsh

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

(ACMCIP Abstract)

559

LEVELS OF MANNOSE-BINDING LECTIN DURING PREGNANCY COMPLICATED WITH *PLASMODIUM FALCIPARUM* INFECTION IN CAMEROONIAN WOMEN

Audrey D. Thevenon¹, Rose G.F. Leke³, Amorsolo Suguitan¹, Josephine Fogako³, Ainong Zhou⁴, Diane Wallace Taylor¹

¹Georgetown University, Washington, DC, United States, ²John A. Burns School of Medicine, University of Hawaii, Honolulu, HI, United States, ³Biotechnology Center, University of Yaounde, Yaounde, Cameroon

Malaria – Molecular Biology

560

DISTRIBUTION OF *PLASMODIUM FALCIPARUM* MSP1 ALLELIC VARIANTS IN THE ARTIBONITE VALLEY OF HAITI, 2006

Berlin L. Londono, Thomas P. Eisele, Joseph Keating, Adam Bennett, Donald J. Krogstad

Tulane University, New Orleans, LA, United States

(ACMCIP Abstract)

561

HUMAN INSULIN REGULATES OXIDATIVE STRESS AND AGING IN THE MALARIA VECTOR *ANOPHELES STEPHENSI*

Mi-Ae Kang, Tiffany M. Mott, Erin C. Tapley, Edwin E. Lewis, Shirley Luckhart

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

562

DISRUPTION OF A PUTATIVE ABC TRANSPORTER IN *PLASMODIUM FALCIPARUM* ALTERS PARASITE GROWTH AND RESPONSES TO ANTIMALARIAL DRUGS

Dipak K. Raj

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

563

DIFFERENTIAL CHANGES IN *PLASMODIUM FALCIPARUM* VAR TRANSCRIPTION DURING PARASITE ADAPTATION TO *IN VITRO* CULTURE

Jennifer M. Peters¹, Elizabeth V. Fowler¹, Darren R. Krause¹, Qin Cheng², **Michelle L. Gatton**¹

¹Queensland Institute of Medical Research, Herston, Australia, ²Australian Army Malaria Institute, Brisbane, Australia

564

POPULATION STRUCTURE OF *PLASMODIUM FALCIPARUM* IN THE PHILIPPINES

Moritoshi Iwagami¹, Toshimitsu Hatabu², Aleyla S. Escueta³, Elena A. Villacorte³, Pilarita T. Rivera³, Toshiyuki Hayakawa⁴, Kazuyuki Tanabe⁴, Toshihide Mitamura¹, Shigeyuki Kano¹

¹Research Institute, International Medical Center of Japan, Tokyo, Japan, ²Gunma University School of Health Sciences, Gunma, Japan, ³College of Public Health, University of the Philippines Manila, Manila, Philippines, ⁴Research Institute for Microbial Diseases, Osaka University, Osaka, Japan

565

DEVELOPMENT OF A *PLASMODIUM* GENERIC, *FALCIPARUM*, AND *VIVAX* SPECIFIC REA TIME PCR BASED ON 18S RRNA

Kurt E. Schaecher, Mark Fukuda

Armed Forces Research Institute of Research, Bangkok, Thailand

566

IDENTIFICATION AND CHARACTERIZATION OF A NOVEL ASPARAGINES RICH MEROZOITE APICAL PROTEIN THAT IS INVOLVED IN ERYTHROCYTE BINDING AND INVASION BY THE MEROZOITE

Thilan A. Wickramarachchi, Sangeeta Devi, Asif Mohmmmed, Virander S. Chauhan

International Centre for Genetic Engineering and Biotechnology, New Delhi, India

(ACMCIP Abstract)

567

DNA VACCINE TRIALS USING 3 BLOOD STAGE ANTIGENS OF *PLASMODIUM VIVAX* KOREAN ISOLATES

Eun-Hee Shin, Hyo-Jin Kim, Jo Woon Yi Lee, Jin-Ju Lee, Jong-Yil Chai

Seoul National University College of Medicine, Seoul, Republic of Korea

(ACMCIP Abstract)

568

THE USE OF MICROSATELITES AND TANDEM REPEATS IN GENETIC POPULATION ANALYSIS OF FIELD *PLASMODIUM VIVAX* ISOLATES FROM BRAZILIAN ENDEMIC AREAS

Antônio M. Rezende¹, Cor Jésus Fontes², Eduardo Martín Santos³, Cristiana Ferreira Brito¹

¹Centro de Pesquisas René Rachou - FIOCRUZ, Belo Horizonte - MG, Brazil, ²Universidade Federal do Mato Grosso, Cuiabá - MT, Brazil, ³Universidade Federal de Minas Gerais, Belo Horizonte - MG, Brazil

(ACMCIP Abstract)

569

THE FREQUENCY OF SP AND CQ RESISTANCE MARKERS IN SEVEN DISTRICTS IN ZAMBIA

Busiku Hamainza¹, **Moonga Hawela**¹, Pascalina Chanda¹, Hirva Porta², Sungano Mharakurwa³, Cally Roper⁴, Nawa Sipilanyambe¹

¹National Malaria Control Center, Lusaka, Zambia, ²London School of Hygiene, London, United Kingdom, ³Malaria Institute In Macha, Macha, Zambia, ⁴MRC, Johannesburg, South Africa

(ACMCIP Abstract)

570

RECOMBINATION GENERATING HAPLOTYPE DIVERSITY IN THE LIGAND DOMAIN OF *PLASMODIUM VIVAX* DUFFY-BINDING PROTEIN

Taís N. Sousa¹, Eduardo Tarazona-Santos², Paula R. Kuser³, Luzia H. Carvalho¹, Cristiana F. Brito¹

¹Rene Rachou Institute/Oswaldo Cruz Foundation, Belo Horizonte/MG, Brazil, ²Federal University of Minas Gerais, Belo Horizonte/MG, Brazil, ³Laboratory of Bioinformatics/EMBRAPA, Campinas/SP, Brazil

(ACMCIP Abstract)

Malaria - Vaccines

571

***PLASMODIUM VIVAX* TRAP: IMMUNOGENICITY AND PROTECTIVE EFFICACY IN RODENTS AND AOTUS MONKEYS**

Angélica M. Castellanos

Universidad del Valle, Cali, Colombia

(ACMCIP Abstract)

572

A PHASE I/IIB RANDOMIZED, DOUBLE-BLIND, CONTROLLED CLINICAL TRIAL OF THE SAFETY, IMMUNOGENICITY AND EFFICACY OF RTS,S/AS02D, A CANDIDATE MALARIA VACCINE IN MOZAMBIKAN INFANTS

John J. Aponte¹, Pedro Aide², Montse Renom¹, Inacio Mandomando², Quique Bassat¹, Jahit Sacarlal², Maria N. Manaca², Sarah Lafuente¹, Eusebio Macete², Amanda Leach³, Ripley Ballou³, Marc Lievens³, Johan Vekemans³, Marie-Claude Dubois³, Marie-Ange Demotie³, Joe Cohen³, Filip Dubovsky⁴, Jessica Millman⁴, Marla Sillman⁴, Pedro L. Alonso¹

¹Barcelona Centre For International Health Research (CRESIB), Hospital Clinic/IDIBAPS, University of Barcelona, Barcelona, Spain, ²Manhiça Health Research Centre (CISM), Manhiça, Mozambique, ³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States

573

EFFECT OF CPG ON STABILITY OF BSAM-1/ALHYDROGEL FORMULATION

Daming Zhu, Elizabeth M. Gebregeorgis, Holly A. McClellan, Shuhui Huang, Louis H. Miller, Laura B. Martin

Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

574

NOVEL SPOOROZOITE ANTIGEN DISCOVERY OF *PLASMODIUM FALCIPARUM* SCREENED USING HUMAN IMMUNESERA

Ling Jin¹, Satoru Takeo¹, Hideyuki Iriko², Osamu Kaneko³, Jetsumon Sattabongkot⁴, Motomi Torii⁵, Joao Carlos Aguiar⁶, **Takafumi Tsuboi**¹

¹Ehime University, Matsuyama, Ehime, Japan, ²Tottori University, Yonago, Tottori, Japan, ³Nagasaki University, Nagasaki, Nagasaki, Japan, ⁴Armed Forces Research Institute of the Medical Sciences, Bangkok, Thailand, ⁵Ehime University, Toon, Ehime, Japan, ⁶Naval Medical Research Center, Silver Spring, MD, United States

(ACMCIP Abstract)

575

TRANSMISSION-BLOCKING ACTIVITY OF DNA VACCINE ENCODING *PLASMODIUM VIVAX* GAMETOCYTE PROTEIN, PVS230

Mayumi Tachibana¹, Chiho Eitoku¹, Hitoshi Otsuki¹, Jetsumon Sattabongkot², Motomi Torii¹, Takafumi Tsuboi³

¹Department of Molecular Parasitology, Ehime University Graduate School of Medicine, Ehime, Japan, ²Department of Entomology, United States Army Medical Component Armed Forces Research Institute of the Medical Sciences, Bangkok, Thailand, ³Cell-Free Science and Technology Research Center, Ehime University, Ehime, Japan

576

A PLATFORM FOR GENERATING CONJUGATED MALARIAL VACCINES TO *PSEUDOMONAS AERUGINOSA* EXOPROTEIN A

Feng Qian¹, Karine Reiter¹, Yanling Zhang¹, Richard L. Shimp, Jr.¹, Vu Nguyen¹, Jacob Lebowitz², Lynn Lambert¹, Gregory E. Mullen¹, Laura B. Martin¹, Louis H. Miller¹, David L. Narum¹

¹National Institutes of Health, Rockville, MD, United States, ²National Institutes of Health, Bethesda, MD, United States

577

P. VIVAX VACCINE: IMMUNOLOGICAL CHARACTERIZATION OF NEW CANDIDATE VACCINE USING GENOMIC AND PROTEOMIC DATA

Elizabeth Ampudia

Instituto de Inmunología, Cali, Colombia

(ACMCIP Abstract)

578

IMPACT OF RTS,S/AS02A AND RTS,S/AS01B ON MULTIPLICITY OF INFECTIONS AND CSP T-CELL EPITOPES OF *P. FALCIPARUM* IN ADULTS PARTICIPATING IN A MALARIA VACCINE CLINICAL TRIAL

Samuel B. Anyona¹, Carol W. Hunja¹, Carolyne M. Kifude¹, Mark E. Polhemus¹, D. Gray Heppner², Amanda Leach³, Marc Lievens³, Ripley Ballou³, Joe Cohen³, Colin Sutherland⁴, **John N. Waitumbi¹**

¹Walter Reed Project, Kenya Medical Research Institute, Kisumu, Kenya, ²Division of Malaria Vaccine Development, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴London School of Hygiene and Tropical Medicine, London, United Kingdom

579

A NOVEL POPULATION GENOMIC APPROACH FOR IDENTIFYING VACCINE TARGETS

Daniel E. Neafsey¹, Danny Park¹, Sarah K. Volkman², Pardis C. Sabeti¹, Dyann F. Wirth², James E. Galagan¹

¹Broad Institute of MIT and Harvard, Cambridge, MA, United States, ²Harvard School of Public Health, Cambridge, MA, United States

580

***E. COLI*-EXPRESSED AND REFOLDED VAR2CSA DOMAINS INDUCE ANTIBODIES AGAINST NATIVE STRUCTURAL EPITOPES ON THE SURFACE OF CSA-BINDING PARASITES**

Andrew V. Oleinikov, Jeffrey R. Dorfman, Eddie Rosnagle, Susan Francis, Michal Fried, Stephanie Balcaitis, Tony Getz, Marion Avril, Joe D. Smith, Patrick E. Duffy

Seattle Biomedical Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

581

DEVELOPING DNA-PRIME ADENOVIRUS-BOOST VACCINES FOR THE PREVENTION OF MALARIA

Ilin Chuang¹, David R. Regis¹, Martha Sedegah¹, José Mendoza-Silveiras¹, Joseph T. Bruder², Richter C. King², Noelle B. Patterson¹, Keith Limbach¹, Sofia Casares¹, Santina Maiolatesi¹, Lorraine Soisson³, Carter Diggs³, Walter Weiss¹, Denise L. Doolan¹, Thomas L. Richie¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²GenVec Inc., Gaithersburg, MD, United States, ³United States Agency for International Development, Washington, DC, United States

Mosquitoes – Vector Biology

582

VECTOR COMPETENCE OF FLORIDA *Aedes aegypti* AND *Ae. albopictus* TO LA RÉUNION STRAIN (LR2006 OPY1) OF CHIKUNGUNYA VIRUS

Michael H. Reiskind, Kendra Pesko, Catherine J. Westbrook, Christopher N. Mores

University of Florida, Vero Beach, FL, United States

583

FIELD COMPARISON OF ANOPHELINE COLLECTION METHODS: CO₂-BAITED CDC LIGHT TRAPS VERSUS HUMAN LANDING CATCHES IN BELIZE, CENTRAL AMERICA

Nicole L. Achee¹, Isabelle Dusfour¹, David Claborn¹, Ireneo Briceno², Russell King², John Grieco¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Belize Ministry of Health, Belmopan, Belize

584

MOSQUITOES IN SPACE AND TIME: METEOROLOGIC AND EDAPHIC FACTORS AFFECTING *Culex tarsalis* ABUNDANCE IN CALIFORNIA

Christopher M. Barker¹, William K. Reisen¹, Bruce F. Eldridge¹, Wesley O. Johnson², Jeff Gill¹

¹University of California, Davis, CA, United States, ²University of California, Irvine, CA, United States

585

AUTOMATED DETECTION AND RECORDING OF MOSQUITOES FLYING THROUGH EAVES OF AN AFRICAN VILLAGE HUT

Philipp Kirsch¹, John Mclaughlin¹, Darek Czokajlo¹, Aubrey Moore²

¹APTIV Inc., Portland, OR, United States, ²University of Guam, Mangilao, GU, United States

586

THE EVIDENCE OF INCREASING LEVEL ON SUSCEPTIBLE TO PYRETHROID OF *Aedes aegypti* IN PANG MAI DAENG VILLAGE IN NORTHERN THAILAND

Wannapa Suwonkerd¹, Nantawan Suwannachote¹, Thum Boonti¹, Theeraphap Chareonviriyaphap²

¹Office of Disease Prevention and Control, Ministry of Public Health, Chiang Mai, Thailand, ²Department of Entomology, Faculty of Agriculture, Kasetsart University, Bang Khen, Bangkok, Thailand

587

LOGISTICS OF LARGE SCALE LARVAL ANOPHELES GAMBIAE CONTROL: TRACKING INSECTICIDE APPLICATION WITH DIGITAL TECHNOLOGY

M. N. Bayoh¹, Allen Hightower², Maurice Ombok¹, Francis Mutuku¹, Edward D. Walker³, John M. Vulule¹, John E. Gimnig²

¹Kenya Medical Research Institute, Kisumu, Kenya, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Michigan State University, East Lansing, MI, United States

588

LIGHTS, CAMERA, ACTION: A METHOD TO STUDY MALE ANOPHELES GAMBIAE MATING BEHAVIOR IN THE FIELD

Nicholas C. Manoukis¹, Abdoulaye Diabate¹, Adama Dao², Fuyuki Tokumasu¹, Tovi Lehmann¹

¹National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States, ²MRTC/FMPOS, Bamako, Mali

589

LABORATORY OVIPOSITION RESPONSES OF *Aedes aegypti* TO VOLATILES FROM PLANT INFUSIONS AND CULTURED BACTERIAL ISOLATES FROM PLANT INFUSIONS

Loganathan Ponnusamy, Coby Schal, **Charles Apperson**
North Carolina State University, Raleigh, NC, United States

590

IDENTIFICATION OF MOSQUITO PROTEINS INVOLVED IN THE MOSQUITO-BORNE FLAVIVIRUS LIFECYCLE

Jonathan T. Cox¹, John F. Anderson², Erol Fikrig¹

¹Yale University, New Haven, CT, United States, ²Connecticut Agricultural Experiment Station, New Haven, CT, United States

591

COMPLEXITIES IN THE RECOGNITION AND DIFFERENTIATION OF VECTORS AND NON-VECTORS OF MALARIA IN SOUTHERN ZAMBIA

Douglas E. Norris¹, E. A. Misiani², Christen M. Fornadel¹, Lizette L. Koekemoer², Richard H. Hunt², Maureen Coetzee²

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²National Institute for Communicable Diseases, Johannesburg, South Africa

Mosquitoes – Vector Biology - Epidemiology

592

MEASURING THE IMPACT OF UNPREDICTABLE ENVIRONMENTS ON MOSQUITO VECTORS AND IMPLICATIONS FOR DISEASE RISK MODELING

Constantianus J. Koenraadt, Hong Fei Gong, Laura C. Harrington
Cornell University, Ithaca, NY, United States

593

IS VERTEBRATE BLOOD QUALITY CORRELATED WITH THE HOST SPECIES SPECIALIZATION OF AFRICAN MALARIA VECTORS?

Heather Ferguson

University of Glasgow, Glasgow, United Kingdom

594

FUTURE THREAT FROM VIVAX MALARIA IN THE UNITED KINGDOM

Steve W. Lindsay, D.G. Hole, Rob Hutchinson, Steven G. Willis
University of Durham, Durham City, United Kingdom

595

A PREDICTIVE LANDSCAPE MODEL OF ANOPHELES GAMBIAE LARVAL HABITATS IN LOWLAND WESTERN KENYA

Francis Mutuku¹, M.N. Bayoh¹, John E. Gimnig², John M. Vulule¹, Jones M. Mueke³, Edward D. Walker⁴

¹Kenya Medical Research Institute, Kisumu, Kenya, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Kenyatta University, Nairobi, Kenya, ⁴Michigan State University, East Lansing, MI, United States

596

STUDIES ON INSECTICIDE USAGE PATTERN AND RESISTANCE STATUS OF *ANOPHELES GAMBIAE* S.S IN THE ASHANTI REGION OF GHANA

Joseph B. Stiles-Ocran¹, Michael D. Wilson¹, Margaret T. Frempong², Williams K. Owiredu², Daniel A. Boakye¹

¹Noguchi Memorial Institute for Medical Research, Legon, Accra, Ghana, ²Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

597

MALARIA TRANSMISSION RISK AND IRRIGATION IN NORTHERN GHANA

Maxwell A. Appawu¹, Samuel Dadzie¹, Victor Asoala², Francis Anto², Kwadwo Koram¹, William Rogers³, David J. Fryauff⁴

¹Noguchi Memorial Research Institute, Accra, Ghana, ²Navrongo Health Research Center, Navrongo, Ghana, ³United States Naval Medical Research Unit No. 3, Cairo, Egypt, ⁴Naval Medical Research Center, Silver Spring, MD, United States

598

VECTOR COMPETENCE OF SELECTED KENYAN MOSQUITO (DIPTERA: CULICIDAE) SPECIES FOR RIFT VALLEY FEVER VIRUS

Michael J. Turell¹, John S. Lee¹, Jason H. Richardson², Rosemary C. Sang³, Elizabeth N. Kioko², Maurice O. Agawo², James Pecor⁴, Monica L. O'Guinn¹

¹United States Army Medical Research Institute for Infectious Diseases, Frederick, MD, United States, ²US Army Medical Research Unit, Nairobi, Kenya, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Walter Reed Army Institute of Research, Washington, DC, United States

599

TEMPORAL AND SPATIAL PATTERNS OF WEST NILE VIRUS TRANSMISSION IN SAGINAW COUNTY, MICHIGAN, 2003-2005: EVIDENCE FROM MOSQUITO POOLS, DEAD BIRDS, AND SENTINEL PHEASANTS SUGGEST HUMAN RISK FACTORS

Ting-Wu Chuang¹, Randall G. Knepper², William W. Stanuszek², Edward D. Walker³, Mark L. Wilson¹

¹Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States, ²Saginaw County Mosquito Abatement Commission, Saginaw, MI, United States, ³Department of Microbiology and Molecular Genetics, Michigan State University, Lansing, MI, United States

600

A MODIFIED Y-TUBE OLFACTOMETER TO INVESTIGATE THE HOST DENSITY-DEPENDENT BEHAVIORAL RESPONSE OF MOSQUITOES

Ivo M. Foppa¹, Richard G. Vogt²

¹Arnold School of Public Health, University of South Carolina, Columbia, SC, United States, ²Department of Biological Sciences, University of South Carolina, Columbia, SC, United States

601

MOSQUITO AND BITING MIDGE MIDGUT STRUCTURES AND PROCESSES THAT MAY AFFECT ARBOVIRUS INFECTION AND DISSEMINATION

William S. Romoser¹, Marco Neira², Renato Leon³, Lisa A. Patrican⁴, William K. Reisen⁵

¹College of Osteopathic Medicine, Tropical Disease Institute, Athens, OH, United States, ²The Whitney Laboratory, St. Augustine, FL, United States, ³College of Health Sciences, Universidad San Francisco de Quito, Quito, Ecuador, ⁴New York State Department of Health, Arthropod-Borne Disease Program, Diagnostic Laboratory, College of Veterinary Medicine, Cornell University, Ithaca, NY, United States, ⁵Arbovirus Field Station, Center for Vector Borne Disease, University of California, Bakersfield, CA, United States

602

EFFECTS OF LANDSCAPE PATTERNS AND BIRD COMMUNITY COMPOSITION ON WEST NILE VIRUS TRANSMISSION PATTERNS IN CT

Maria Diuk-Wasser¹, Goudarz Molaei², Anna Milkowski¹, Heidi Brown¹, Theodore Andreadis², Durland Fish¹

¹Yale University, New Haven, CT, United States, ²Connecticut Agricultural Experiment Station, New Haven, CT, United States

Protozoa – Opportunistic Protozoa

603

COMPARATIVE CLUSTERS OF ORTHOLOGOUS GENE ANALYSIS OF BABESIA, PLASMODIUM AND THEILERIA

Audrey O. Lau

Washington State University, Pullman, WA, United States

604

IN VIVO EFFECTS OF PYRIMETHAMINE AND ARTESUNATE ON ACUTE AND CHRONIC TOXOPLASMOSIS

Phuangphet Waree¹, David JP Ferguson², Emsri Pongponratn³, Urai Chaisri³, Yaowalark Sukthana¹

¹Department of Protozoology, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ²Nuffield Department of Pathology, Oxford University, John Radcliffe Hospital, Oxford, United Kingdom, ³Department of Tropical Pathology, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

605

CHARACTERISATION OF THE EFFECTS OF PENTAMIDINE-DERIVATIVES IN NEOSPORA CANINUM- AND TOXOPLASMA GONDII-INFECTED CELL CULTURES

Angela Leepin¹, Angela Stuedli², Reto Brun², David Boykin³, Andrew Hemphill¹

¹University of Berne, Berne, Switzerland, ²Swiss Tropical Institute, Basel, Switzerland, ³Georgia State University, Atlanta, GA, United States

606

EFFECTIVENESS OF A RIBOFLAVIN AND LIGHT BASED PATHOGEN REDUCTION TECHNOLOGY (PRT) SYSTEM TO ELIMINATE BABESIA MICROTI FROM APHERESIS PLATELETS AND PLASMA

Laura Tonnetti¹, Melanie C. Proctor¹, Heather L. Reddy², Raymond P. Goodrich³, David A. Leiby¹

¹American Red Cross, Rockville, MD, United States, ²Navigant Biotechnologies, Lakewood, CO, United States, ³Navigant Biotechnology, Lakewood, CO, United States

(ACMCIP Abstract)

607

THE PROINFLAMMATORY CYTOKINE EXPRESSIONS WERE SUPPRESSED BY TLR2 IN MACROPHAGES TREATED WITH TOXOPLASMA GONDII LYSATE

Myoung-Hee Ahn

Hanyang University College of Medicine, Seoul, Republic of Korea

(ACMCIP Abstract)

608

IMMUNOSUPPRESSION OF MICE AFTER INTRAPERITONEAL OR GASTRODUODENAL INJECTION WITH A VIRULENT *TOXOPLASMA GONDII* KOREAN ISOLATE (KI-1)

Jong-Yil Chai, Hyo-Jin Kim, Jo Woon Yi Lee, Jin-Ju Lee, Eun-Hee Shin

Seoul National University College of Medicine, Seoul, Republic of Korea

(ACMCIP Abstract)

609

SERUM ANTIBODY RESPONSES TO CP27, AN IMMUNODOMINANT *CRYPTOSPORIDIUM* SPP. ANTIGEN IN BANGLADESHI CHILDREN WITH DIARRHEA AND CRYPTOSPORIDIOSISAnoli J. Borad¹, Geneve Allison¹, Wasif A. Khan², Anne V. Kane¹, Kathleen Rogers¹, Mohammad M. Karim², Sabeena Ahmed², Patricia L. Hibberd¹, Stephen B. Calderwood³, Edward T. Ryan³, Honorine D. Ward¹¹Tufts-New England Medical Center, Boston, MA, United States,²International Centre for Diarrheal Disease Research, Dhaka, Bangladesh,³Massachusetts General Hospital, Boston, MA, United States

(ACMCIP Abstract)

610

OSTEOPROTEGERIN (OPG) PROTECTS *CRYPTOSPORIDIUM* AGAINST DEATH INDUCED BY TRAIL (TNF-RELATED APOPTOSIS-INDUCING LIGAND)Alejandro Castellanos¹, Linda S. Yancey², Heuy-Ching Wang², Birte Pantenburg¹, Kathleen R. Liscum², Dorothy E. Lewis², A. Clinton White Jr.¹¹University of Texas Medical Branch, Galveston, TX, United States, ²Baylor College of Medicine, Houston, TX, United States**Viruses - Other**

611

A ROLE FOR AMINO ACIDS₂₁₂ KLR₂₁₄ OF EBOLA VIRUS VP40 IN ASSEMBLY AND BUDDING

Sarah E. McCarthy, Reed F. Johnson, Ronald N. Harty

University of Pennsylvania, Philadelphia, PA, United States

612

CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS ENCODES AN NSM PROTEINLouis A. Altamura¹, Jose Stubbs¹, Connie S. Schmaljohn², Robert W. Doms¹¹University of Pennsylvania, Philadelphia, PA, United States, ²United States Army Medical Research Institute for Infectious Diseases, Fort Detrick, Frederick, MD, United States

613

INFECTIOUS CLONES OF CHIKUNGUNYA VIRUS (LA RÉUNION ISOLATE) FOR VECTOR COMPETENCE STUDIES

Konstantin A. Tsetsarkin, Dana L. Vanlandingham, Charles E. McGee, Stephen Higgs

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

(ACMCIP Abstract)

614

MONKEYPOX: ECOLOGICAL AND LABORATORY INVESTIGATIONS OF HOST-VIRUS DYNAMICS

Darin S. Carroll, Christina L. Hutson, Joshua S. Self, Victoria A. Olson, Mary G. Reynolds, Jason A. Abel, Russell L. Regnery, Inger K. Damon

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

615

A PHYLOGENETIC ANALYSIS OF SOUTH AMERICAN EASTERN EQUINE ENCEPHALITIS VIRUS

Nicole C. Arrigo, Douglas M. Watts, Scott C. Weaver

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

616

GENETIC DIVERSITY AND POSITIVE SELECTION IN EASTERN EQUINE ENCEPHALITIS VIRUSOrchid M. Allicock¹, Albert J. Auguste¹, Eleca J. Dunham², Oliver G. Pybus³, Edward C. Holmes², Christine V. Carrington¹¹University of the West Indies, St. Augustine, Trinidad and Tobago,²Pennsylvania State University, State College, PA, United States, ³University of Oxford, Oxford, United Kingdom

617

GENOTYPE SHIFT AND REEMERGENCE OF CHIKUNGUNYA IN INDIA

Paban K. Dash, Manmohan Parida, S.R. Santhosh, N.K. Tripathi, A. Srivastava, Parag Saxena, Nimesh Gupta, S.K. Verma, P.V. Lakshmana Rao

Defence Research and Development Establishment, Gwalior, India

618

BIOSURETY AND REGIONAL PREPAREDNESS FOR A POTENTIAL INFLUENZA PANDEMIC AND OTHER THREATS POSED BY BIOLOGICAL SELECT AGENTS AND TOXINS: THE ARMED FORCES RESEARCH INSTITUTE OF THE MEDICAL SCIENCES EXPERIENCEFernando Guereña-Burgueno¹, Bonnie L. Smoak¹, Sorachai Nitayapan¹, James D. McLain¹, Tippawan T. Na Ayuttaya¹, Duangsuda Siriyanonda¹, Richard G. Jarman¹, Kathleen W. Carr², Clifford E. Wendel³¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand,²Walter Reed Army Institute of Research, Silver Spring, MD, United States,³US Army Medical Research and Materiel Command, Fort Detrick, MD, United States

(ACMCIP Abstract)

619

A SEROSURVEY OF THE KENYAN SOMALI HERDER POPULATION IN NORTHEAST PROVINCE DURING THE RIFT VALLEY FEVER VIRUS EPIDEMIC OF 2006/07

David Schnabel¹, Daniel Feikin², Kariuki Njenga³, Allen Hightower³, O.A. Omar⁴, Patrick Nguku⁵, Rashid Osman⁴, Omar Farah⁶, Ahmed Mohamed⁷, Rob Breiman³

¹United States Army Medical Research Unit - Kenya, Nairobi, Kenya, ²Centers for Disease Control and Prevention, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Nairobi, Kenya, ⁴Kenya Ministry of Health, Garissa, Kenya, ⁵Kenya Ministry of Health, Nairobi, Kenya, ⁶Garissa Provincial Hospital, Garissa, Kenya, ⁷Istin Subdistrict Hospital, Garissa, Kenya

620

REDUCING MEASLES BURDEN IN NIGERIA: LESSONS FROM THE ANAMBRA STATE INTEGRATED MEASLES IMMUNIZATION CAMPAIGN 2006

Amobi L. Ilika

Nnamdi Azikiwe University Teaching Hospital, Nnewi Anambra State, Nigeria

Poster Session B ACMCIP Abstracts – Molecular, Cellular and Immunoparasitology

393, 395, 396, 417, 418, 419, 440, 466, 477, 482, 485, 488, 52, 511, 512, 513, 518, 524, 525, 526, 530, 533, 542, 545, 550, 553, 556, 558, 560, 562, 566, 567, 568, 569, 570, 571, 574, 577, 580, 66, 67, 68, 609, 613, 618

Mid-Day Session 78**Bioinformatics Resources for Tropical Diseases: NCBI Resource Update**

Salon AB

Tuesday, November 6, 2007 12:15 p.m. - 1:15 p.m.

The U.S. National Center for Biotechnology Information at the National Institutes of Health is the U.S. national resource for molecular biology information. NCBI develops software and databases to better understand fundamental molecular and genetic processes that control health and diseases. NCBI makes these resources including GenBank, PubMed, BLAST, etc. freely available to the public. This session provides an update of new computational tools, including genome analysis and databases available at NCBI for tropical disease research. More detail information is available at <http://www.ncbi.nlm.nih.gov/>.

SPEAKER

Chuong Huynh

National Institutes of Health, Bethesda, MD, United States

Mid-Day Session 79**Focus Group Lunch with ASTMH Education Committee: Career Development in Tropical Medicine and Global Health**

Supported with funding from The Burroughs Wellcome Fund

Salon CD

Tuesday, November 6, 2007 12:15 p.m. - 1:15 p.m.

Interested in tropical medicine and/or global health but feeling frustrated or unsure about how to make it a real career? The ASTMH education committee is hosting a focus group lunch supported by The Burroughs Wellcome Fund. This session will encourage discussion among meeting attendees regarding their questions and concerns around career development and professional advancement. Focus group leaders will also solicit and record feedback on how the Society can best support the needs of its next generation of scientists, clinicians and public health leaders. Meeting attendees at all levels of training [i.e. graduate students, medical students, postdoctoral fellows, clinical interns, residents and fellows, new academic appointees (eg. assistant professors, lecturers)], as well as anyone who would like to share useful information regarding training or entry/advancement in both traditional and non-traditional career tracks in tropical medicine and global health are welcome. Come have lunch and give us your input!

CHAIR

Stephen Higgs

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

Sarah Volkman

Harvard School of Public Health, Boston, MA, United States

ROUNDTABLE HOSTS

Noah Craft, MD, PhD, DTM&H

UCLA, Los Angeles, CA, United States

Hector Gorbea, MD

University of Puerto Rico, San Juan, PR, United States

Laura C. Harrington, PhD

Cornell University, Ithaca, NY, United States

Risa Hoffman, MD, MPH

UCLA, Los Angeles, CA, United States

Charles E. McGee

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

Victoria P. McGovern, PhD

The Burroughs Wellcome Fund, Research Triangle Park, NC, United States

Claire Panosian, MD, DTMH

UCLA School of Medicine, Los Angeles, CA, United States

Stephen Wikel, PhD

University of Connecticut Health Center, Farmington, CT, United States

Jack Woodall, PhD

Federal University of Rio De Janeiro, Petropolis, Brazil

Peter Zimmerman, PhD

Case Western Reserve University, Cleveland, OH, United States

Mid-Day Session 79A

The Heat Is On: The Impact of Climate Change on Tropical Diseases

Supported with funding from GlaxoSmithKline

Salon E

Tuesday, November 6, 2007 12:15 p.m. - 1:15 p.m.

Malaria is increasing to previously non-endemic regions in Africa. Epidemics of malaria, dengue fever and cholera follow tropical storms in Central America. West Nile virus arrives in New York City. Global warming and resulting climatic instability appear to be driving a resurgence and spread of infectious tropical diseases. What extra burdens will climate change impose?

CHAIR

Win Gutteridge

Medicines for Malaria Venture, Geneva, Switzerland

HEAT AND HEALTH: WILL TROPICAL DISEASES WORSEN AS CLIMATE CHANGES?

Paul Epstein

Harvard Medical School, Boston, MA, United States

Mid-Day Session 80

Simulation Modeling of the Epidemiology and Control of Malaria

Salon IJ

Tuesday, November 6, 2007 12:15 p.m. - 1:15 p.m.

We describe a mathematical individual-based simulation model of *Plasmodium falciparum* malaria in humans. The model includes infection dynamics in humans and transmission dynamics between humans and mosquitoes for a variety of ecological settings. Adding malaria control interventions in the context of different health systems allows us to predict the cost-effectiveness of these interventions.

CHAIR

Thomas A. Smith

Swiss Tropical Institute, Basel, Switzerland

Marcel Tanner

Swiss Tropical Institute, Basel, Switzerland

12:15 p.m.

SIMULATION MODELING OF THE EPIDEMIOLOGY AND CONTROL OF MALARIA (OVERVIEW)

Thomas A. Smith

Swiss Tropical Institute, Basel, Switzerland

12:30 p.m.

PROGRESS IN MODELING VACCINES AND VECTOR CONTROL

Nakul Chitnis

Swiss Tropical Institute, Basel, Switzerland

12:45 p.m.

COSTING OF VECTOR CONTROL

Christian Lengeler

Swiss Tropical Institute, Basel, Switzerland

1 p.m.

THE IMPORTANCE OF THE HEALTH SYSTEM IN DYNAMIC MODELING OF THE IMPACT OF MALARIA CONTROL

Marcel Tanner

Swiss Tropical Institute, Basel, Switzerland

Meet the Professors 81

Meet the Professors C: It's the Singer, Not the Song: How to Give an Effective Medical and Scientific Presentation

Franklin 1

Tuesday, November 6, 2007 12:15 p.m. - 1:15 p.m.

This session will explore how science, levity and personal anecdotes combine for a dynamic and engaging presentation.

CHAIR

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

SPEAKER

Jay Keystone

Toronto Hospital, Toronto, ON, Canada

Mid-Day Session 82

Optimizing Prevention Strategies for Travelers' Malaria – Including Improving Diagnosis and Effective Therapy

Franklin 3/4

Tuesday, November 6, 2007 12:15 p.m. - 1:15 p.m.

Malaria remains the leading life-threatening infection of travelers to endemic areas. Although there are now three effective chemoprophylactic strategies for prevention, rates of malaria in returned travelers have not decreased in non-endemic countries such as Canada and the United States. Travelers continue to underutilize all preventive strategies, including insect repellents and insecticide treatment of nets and clothing. This symposium will review evidenced based strategies for malaria prevention in travelers.

CHAIR

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

12:15 p.m.

OVERVIEW OF TRAVELERS' MALARIA: EPIDEMIOLOGY, PREVENTION AND MANAGEMENT STRATEGIES

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

Detailed Program

12:30 p.m.

WHY DON'T WE BOTHER TO PREVENT THOSE MALARIA MOSQUITO BITES? AN EVIDENCED-BASED REVIEW OF EFFECTIVE INSECT PREVENTION STRATEGIES FOR TRAVELERS

Steve Schofield

Canadian Department of National Defence, Dunrobin, ON, Canada

12:45 p.m.

PEDIATRIC TRAVELERS' MALARIA: PREVENTION AND MANAGEMENT

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

1 p.m.

WHEN PREVENTION FAILS: STRATEGIES FOR OPTIMIZING DIAGNOSIS AND MANAGEMENT IN NON-ENDEMIC COUNTRIES - PREVENTING MALARIA MISHAPS

Paul Arguin

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

CME/Courses Committee Meeting

Room 336

Tuesday, November 6, 2007 12:15 p.m. - 1:15 p.m.

Poster Session B Viewing

Franklin Hall B

Tuesday, November 6, 2007
1:30 p.m. - 7 p.m.

Plenary Session III: Commemorative Fund Lecture

Salon GH

Tuesday, November 6, 2007 1:45 p.m. - 2:30 p.m.

The ASTMH Commemorative Fund Lecture is presented annually by an invited senior researcher resident in the tropics.

CHAIR

Carlos C. (Kent) Campbell

PATH Malaria Control and Evaluation Partnership in Africa (MACEPA), Seattle, WA, United States

MALARIA CONTROL IN AFRICA: OPPORTUNITIES AND CHALLENGES IN ACHIEVING RBM 2010 GOALS

Awa Coll-Seck

Executive Secretary, Roll Back Malaria Partnership, Geneva, Switzerland

Coffee Break

Franklin Hall B

Tuesday, November 6, 2007 2:15 p.m. - 2:45 p.m.

Symposium 83

Molecular Mechanisms of Plasma Leakage in Viral Hemorrhagic Fevers

Salon AB

Tuesday, November 6, 2007 2:45 p.m. - 4:30 p.m.

The symposium is designed to provide an update in the understanding of the molecular mechanisms involved in viral hemorrhagic fevers. A state of the art review of the regulation of vascular permeability in physiological state will lead into discussions on pathological findings in viral hemorrhagic fevers and new findings in the molecular mechanisms of vascular leakage in viral hemorrhagic fevers.

CHAIR

Anon Srikiatkachorn

University of Massachusetts Medical School, Worcester, MA, United States

2:45 p.m.

REGULATORS OF VASCULAR PERMEABILITY

Peter Baluk

University of California, San Francisco, CA, United States

3:10 p.m.

PATHOLOGY OF VIRAL HEMORRHAGIC FEVERS

Sherif Zaki

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

3:30 p.m.

THE ROLE OF VASCULAR ENDOTHELIAL GROWTH FACTOR AND ITS RECEPTORS IN DENGUE HEMORRHAGIC FEVER

Anon Srikiatkachorn

University of Massachusetts Medical School, Worcester, MA, United States

3:50 p.m.

MECHANISMS OF PLASMA LEAKAGE IN EBOLA VIRUS INFECTION

Thomas Geisbert

United States Army Medical Research Institute of Research, Fort Detrick, MD, United States

Scientific Session 84

Mosquitoes - Vector Biology - Epidemiology I

Salon CD

Tuesday, November 6, 2007
2:45 p.m. - 4:30 p.m.

CHAIR

Clare Strode

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Megan R. Wise de Valdez

Colorado State University, Fort Collins, CO, United States

2:45 p.m.

621

EVIDENCE OF METABOLIC RESISTANCE IN PYRETHROID RESISTANT POPULATIONS OF *ANOPHELES GAMBIAE* FROM BENIN, WEST AFRICA

Clare Strode¹, Rousseau F. Djouaka², Adekunle A. Bakare³, Martin C. Akogbeto², Janet Hemingway¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, ³University of Ibadan, Ibadan, Nigeria

3 p.m.

623

CONTROL OF CULICINES AND ANOPHELINES USING PYRIPROXYFEN – FIELD SCALE EVALUATIONS

Gregor J. Devine¹, Amy Morrison², David Florin³, Victor Lopez⁴, Helvio Astete⁴, Jhon Ramirez⁴, Stephen Yanoviak⁵

¹Rothamsted Research, Harpenden, United Kingdom, ²University of California Davis, Davis, CA, United States, ³Naval Medical Research Center Detachment, Lima, Peru, ⁴Naval Medical Research Center Detachment, Iquitos, Peru, ⁵University of Arkansas, Little Rock, AR, United States

3:15 p.m.

624

A PARATRANSGENIC APPROACH TO CONTROL OF VISCERAL LEISHMANIASIS: AEROBIC GUT BACTERIAL IDENTIFICATION FROM *PHLEOTOMUS ARGENTIPUS*

Amber L. Read¹, Ravi Durvasula¹, Ivy Hurwitz¹, Bobban Subhadra¹, Mathews Scott¹, Kashinath Ghosh², Robin McKelvey¹, Heidi Hillesland¹, Pradeep Das³

¹University of New Mexico, Albuquerque, NM, United States, ²Walter Reed Army Research Institute, Washington, DC, United States, ³Rajendra Memorial Research Institute of Medical Sciences, Patna, India

(ACMCIP Abstract)

3:30 p.m.

625

A LARGE SCALE LABORATORY CAGE INVESTIGATION OF *Aedes* DENSONUCLEOSIS VIRUS (*AEDNV*) AS A SUSTAINABLE BIOCONTROL METHOD OF *Aedes Aegypti* MOSQUITOES

Megan R. Wise de Valdez, Erica L. Suchman, Jonathan O. Carlson, William C. Black

Colorado State University, Fort Collins, CO, United States

3:45 p.m.

626

QTL MAPPING OF GENES CONTROLLING PERMETHRIN RESISTANCE IN *Aedes Aegypti*

Karla L. Saavedra-Rodriguez¹, Adriana E. Flores-Suarez¹, Ildelfonso Fernandez-Salas¹, William C. Black²

¹Laboratorio de Entomologia Medica, Facultad de Ciencias Biologicas, Universidad Autonoma de Nuevo Leon, San Nicolas de los Garza, Nuevo Leon, Mexico, ²Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, CO, United States

4 p.m.

627

IMPREGNATED NETTING SLOWS INFESTATION BY *TRITOMA INFESTANS*

Michael Z. Levy¹, Victor Quispe-Machaca², Jose Ylla-Velasquez², Lance A. Waller¹, Jean M. Richards², Bruno Rath², Ampara Toledo², Rocio Rodriguez², Katty Borrini², Juan G. Cornejo del Carpio³, Eleazar Cordova-Benzaquen², James H. Maguire⁴, Robert H. Gilman⁵, Caryn Bern⁶

¹Emory University, Philadelphia, PA, United States, ²AB Prisma, Arequipa, Peru, ³Direccion Regional del Ministerio de Salud, Arequipa, Peru, ⁴University of Maryland, Baltimore, MD, United States, ⁵Bloomberg School of Public Health, Johns Hopkins, Baltimore, MD, United States, ⁶Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

4:15 p.m.

1034

EFFECT OF HURRICANE KATRINA ON CONTAINER BREEDING *Aedes* MOSQUITO SPECIES IN UPTOWN NEW ORLEANS, LOUISIANA: DISPLACEMENT IS REVERSED

Dawn Wesson, Richard Campanella, Gil Stav, Sarah Michaels
Tulane University, New Orleans, LA, United States

Symposium 85**Clinical Group I**

Supported with funding from International Association for Medical Assistance to Travelers

Salon E

Tuesday, November 6, 2007 2:45 p.m. - 4:30 p.m.

This symposium will feature the Marcolongo Lecture and an update on surveillance data from GeoSentinel.

CHAIR

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

2:45 p.m.

VINCENZO MARCOLONGO MEMORIAL LECTURE: HUMAN AFRICAN TRYPANOSOMIASIS: A NEGLECTED DISEASE WITH LOW PREVALENCE, BUT HIGH IMPACT

Christian Burri

Swiss Tropical Institute, Basel, Switzerland

3:45 p.m.

GEOSENTINEL SURVEILLANCE REPORT

David O. Freedman

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

Scientific Session 86**American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Cellular Parasitology I***Supported with funding from The Burroughs Wellcome Fund*

Salon F

Tuesday, November 6, 2007
2:45 p.m. - 4:30 PM**CHAIR**

Charles B. Shoemaker

Tufts Cummings School of Veterinary Medicine, North Grafton, MA, United States

Mary E. Wilson

*University of Iowa, Iowa City, IA, United States***2:45 p.m.****1067****ARTEMISININ DERIVATIVES ACCUMULATE WITHIN DIGESTIVE VACUOLE-ASSOCIATED NEUTRAL LIPID BODIES IN PLASMODIUM FALCIPARUM****Carmony Hartwig¹**, Andrew Rosenthal², John D'Angelo², Gary Posner², Roland Cooper¹¹Old Dominion University, Norfolk, VA, United States, ²Johns Hopkins University, Baltimore, MD, United States**3 p.m.****1068****A LARGE RETROPOSON FAMILY IS INVOLVED IN THE REGULATION OF GENE EXPRESSION IN THE PROTOZOAN PARASITE LEISHMANIA****Michaela Muller**, Frédéric Bringaud, Annie Rochette, Martin Smith, Elodie Ghedin, Barbara Papadopoulou*Laval University, Quebec City, QC, United States***3:15 p.m.****628****CLONING AND CHARACTERIZATION OF A FATTY ACID AND RETINOL (FAR) BINDING PROTEIN FROM THE HOOKWORM ANCYLOSTOMA CEYLANICUM****Keke C. Fairfax¹**, Richard Bungiro¹, Lisa Harrison¹, Sohail Husain², Michael Cappello¹¹Department of Pediatrics and the Section Of Microbial Pathogenesis, Yale University School of Medicine, New Haven, CT, United States,²Department of Pediatrics, Yale University School of Medicine, New Haven, CT, United States**3:30 p.m.****629****CHARACTERIZING THE HOST-INTERACTIVE SURFACE OF SCHISTOSOMES USING RECOMBINANT ANTIBODIES (SCFVS) FROM IMMUNE FISHER RATS****Jorge A. Sepulveda Toepfer**, Michelle Debatis, Patrick J. Skelly, Charles B. Shoemaker*Tufts Cummings School of Veterinary Medicine, North Grafton, MA, United States***3:45 p.m.****630****ROLE OF THE GOLGI GDP-MAN TRANSPORTER LPG2 IN LEISHMANIA DONOVANI VIRULENCE AND EVASION OF MACROPHAGE MICROBICIDAL ACTIVITY****Upasna Gaur¹**, Stephen M. Beverley², Melissa Showalter³, Rahul Dalvi⁴, Mary E. Wilson⁵¹Departments of Internal Medicine University of Iowa, Iowa City, IA, United States, ²Department of Medical Microbiology, Washington University, St. Louis, MO, United States, ³Veterans Affairs Medical Centre, Iowa City, IA, United States, ⁴University of Iowa, Iowa city, IA, United States, ⁵University of Iowa and the Veterans Affairs Medical Center, Iowa City, IA, United States**4 p.m.****631****KILLED BUT METABOLICALLY ACTIVE (KBMA) LEISHMANIA - A NOVEL PROTOZOAN VACCINE TECHNOLOGY FOR VISCERAL LEISHMANIASIS THAT IS ENHANCED BY TOLL-LIKE RECEPTOR ACTIVATION****Ron A. Birnbaum**, Stephanie Greger, Thu A. Tran, Jacquelyn N. Haskell, Rupa Narayan, Pei L. Cheng, Kevin W. Bruhn, Noah Craft
Los Angeles Biomedical Research Institute, Division of Dermatology, Harbor-UCLA Medical Center, UCLA School of Medicine, Torrance, CA, United States**4:15 p.m.****632****INNATE INFLAMMATORY AND PHAGOCYTOTIC RESPONSES TO PLASMODIUM FALCIPARUM: LINKED PROCESSES OR MOLECULARLY DISCRETE PATHWAYS?****Laura Erdman**, Gabriela Cosio, Samir N. Patel, Sergio Grinstein, Kevin C. Kain*McLaughlin-Rotman Centre for Global Health, University of Toronto, Toronto, ON, Canada***Symposium 87****Cerebral Malaria: Parasite Signaling Across Blood Brain Barrier to Neuronal Dysfunction**

Salon II

Tuesday, November 6, 2007 2:45 p.m. - 4:30 p.m.

This symposium will cover current knowledge of human cerebral malaria pathology as this pertains to interactions of blood brain barrier (BBB) endothelium with the parasite leading to astroneuronal activation. Possible factors involved in inducing the pathology will be discussed as indicated by

human pathology and experimental in-vivo and *in vitro* data. Differentiation will be made to effects of parasite adherence, soluble parasite factors and responses from the host.

CHAIR

Monique F. Stins

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

David J. Sullivan

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

2:45 p.m.**THE PATHOLOGY OF HUMAN CEREBRAL MALARIA**

Isabelle Medana

University of Oxford, Oxford, United Kingdom

3:10 p.m.**LOW NITRIC OXIDE BIOAVAILABILITY CONTRIBUTES TO CEREBRAL MALARIA**

Henri C. van der Heyde

La Jolla Infectious Disease Institute, La Jolla, CA, United States

3:45 p.m.**POST-ADHESIVE PROCESSES IN P.FALCIPARUM CYTOADHERENCE**

Alister Craig

Liverpool School for Tropical Medicine, Liverpool, United Kingdom

4:10 p.m.**CONTRIBUTION OF SOLUBLE PLASMODIUM FACTORS TO CEREBRAL MALARIA PATHOLOGY AT THE BLOOD BRAIN BARRIER**

Monique F. Stins

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

Symposium 88**Gauging the Disability Due to Chronic Infection in Developing Countries: New Yardsticks of Health Burden of Schistosomiasis**

Salon KL

Tuesday, November 6, 2007 2:45 p.m. - 4:30 p.m.

This symposium will address evolving research interest in developing research tools to better assess and quantify disability outcomes, DALYs and Quality-of-Life (QoL) outcomes for non-lethal parasitic diseases of developing countries, using schistosomiasis as an example. Following an introductory talk to describe the rationale, three researchers who are active in the field will describe their different approaches to the problem.

CHAIR

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

2:45 p.m.**PTO DISABILITY ESTIMATES: WHAT'S WRONG WITH THE CURRENT DALY ESTIMATES OF GLOBAL BURDEN OF DISEASE, AND HOW DO WE FIX THEM?**

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

3:10 p.m.**PATHOGEN-ATTRIBUTABLE ANEMIA AND ANEMIA-RELATED OUTCOMES IN THE CONTEXT OF POLYPARASITISM**

Susan P. Montgomery

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

3:35 p.m.**IDENTIFYING CHILDHOOD AND ADULT NUTRITIONAL EFFECTS OF PARASITIC INFECTIONS AND THEIR DISABILITY-RELATED OUTCOMES**

Stephen T. McGarvey

Brown University, Providence, RI, United States

4 p.m.**EFFECTIVE IMPLEMENTATION OF QUALITY OF LIFE MEASUREMENTS IN S. JAPONICUM-ENDEMIC AREAS OF CHINA**

Juerg Utzinger

Swiss Tropical Institute, Basel, Switzerland

Scientific Session 89**Malaria - Chemotherapy**

Liberty AB

Tuesday, November 6, 2007

2:45 p.m. - 4:30 p.m.

CHAIR

Wilfred Mbacham

University of Yaounde, Yaounde, Cameroon

Joseph Njau

Centers for Disease Control and Prevention/Ikara Health Research and Development Center, Dar Es Salaam, United Republic of Tanzania

2:45 p.m.**633****USING A DEMOGRAPHIC SURVEILLANCE SYSTEM TO ENHANCE DETECTION OF ADVERSE DRUG REACTIONS TO MALARIA TREATMENT AND ASSOCIATED COSTS IN RURAL TANZANIA**

Joseph D. Njau¹, Abdunoor M. Kabanywany¹, John R. MacArthur², Aggrey Malila¹, Aggrey Ngajilo¹, Salim Abdulla¹, Peter Bloland³, S. Patrick Kachur³

¹Centers for Disease Control and Prevention/Ikara Health Research and Development Centre Malaria Programme in Tanzania, Dar-es-Salaam, United Republic of Tanzania, ²United States Agency for International Development Regional Development Mission for Asia, Bangkok, Thailand, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

3 p.m.

634

MONITORING THE EFFICACY AND SAFETY OF ARTESUNATE+AMODIAQUINE (AS+AQ) OVER SIX YEARS USING THE WHO *IN VIVO* PROTOCOL AND A SIMPLE PHARMACOVIGILANCE STUDY IN THE DISTRICT OF OUSSOUYE, CASAMANCE, SOUTHERN SENEGAL

Philippe Brasseur¹, Patrice Agnamey², Oumar Gaye³, Michel Vaillant⁴, Walter (Bob) R. Taylor⁵, **Piero L. Olliaro**⁶

¹Institut de Recherche pour le Développement (IRD), Dakar, Senegal, ²Laboratoire de Parasitologie, Centre Hospitalo-Universitaire, Amiens, France, ³Université Anta Diop, Dakar, Sierra Leone, ⁴Centre de Recherches Publiques (CRP)- Santé, Luxembourg, Luxembourg, ⁵Oxford University Clinical Research Unit, National Institute of Infectious and Tropical Diseases; Bach Mai Hospital, Hanoi, Vietnam, ⁶World Health Organization (WHO) Special Programme for Research and Training in Tropical Diseases (TDR), Geneva, Switzerland

3:15 p.m.

635

FIXED DOSE ARTESUNATE/SULFAMETHOXYPIRAZINE/PYRIMETHAMINE COMBINATION THERAPIES COMPARED TO ARTEMETHER/LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA ACROSS AFRICA: AN OPEN RANDOMIZED MULTI-CENTRE TRIAL

Issaka Sagara¹, Stephen Rulisa², Ishag Adam³, Wilfred Mbacham⁴, Abdoulaye Djimde¹, Ogobara Doumbo¹

¹University of Bamako, Bamako, Mali, ²Central University Hospital of Kigali, Kigali, Rwanda, ³University of Khartoum, Khartoum, Sudan, ⁴University of Yaoundé, Yaoundé, Cameroon

3:30 p.m.

636

AZITHROMYCIN COMBINATION THERAPY FOR THE TREATMENT OF UNCOMPLICATED *FALCIPARUM* MALARIA: PRELIMINARY RESULTS FROM AN OPEN LABEL RANDOMIZED CONTROLLED TRIAL IN BANGLADESH

Kamala Thriemer¹, Rashidul Haque², Peter Starzengruber¹, Aung Swe Prue Marma³, Wasif Ali Khan², Matthias Vossen¹, Selim Akter², Mark Fukuda⁴, Harald Noedl¹

¹Medical University of Vienna, Vienna, Austria, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Bandarban Sadar Hospital, Bandarban, Bangladesh, ⁴United States Army Medical Component-Armed Forces Research Institute of the Medical Sciences, Bangkok, Thailand

3:45 p.m.

637

EFFECTIVENESS OF ARTEMETHER PLUS LUMEFANTRINE VERSUS ARTESUNATE PLUS AMODIAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN GHANAIAI CHILDREN

Robin Kobbe¹, Philipp Klein¹, Samuel Adjei², Solomon Amemisor³, Wibke Busch¹, Ibrahim Lukeman², Boakye Yiadom², Martina Bühlren³, Daniel Ansong⁴, Jürgen May¹

¹Bernhard-Nocht-Institute for Tropical Medicine, Hamburg, Germany,

²Kumasi Centre for Collaborative Research in Tropical Medicine (KCCR), Kumasi, Ghana, ³Agogo Prebyterian Hospital, Asante Akim North District, Agogo, Ghana, ⁴Department of Child Health, School of Medical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

4 p.m.

638

EFFECTS OF PIPERAQUINE IN A MURINE MALARIA TREATMENT MODEL

Briani R. Moore¹, Jeffrey D. Jago¹, Christopher Andrzejewski¹, Kenneth F. Ilett², Kevin T. Batty¹

¹Curtin University of Technology, Perth, Australia, ²University of Western Australia, Perth, Australia

4:15 p.m.

639

RETHINKING THE DEVELOPMENT OF ANTIMALARIAL COMBINATIONS

Donald J. Krogstad¹, Haiyan Deng¹, Fawaz Mzayek¹, Frank B. Cogswell², Simon J. Hocart¹, Ousmane A. Koita³, Mitchell A. Avery⁴, Stephen J. Cutler⁴

¹Tulane University Health Sciences Center, New Orleans, LA, United States, ²Tulane National Primate Research Ctr, Covington, LA, United States, ³University of Bamako, Bamako, Mali, ⁴University of Mississippi, Oxford, MS, United States

Symposium 90

Sand Fly Genomics

Liberty C

Tuesday, November 6, 2007 2:45 p.m. - 4:30 p.m.

As important vectors of human disease, phlebotomine sand flies are of global significance to human health, transmitting protozoan, bacterial and viral pathogens. Completed genome sequences of these medically important vectors will foster development of novel technologies to control these devastating diseases. Furthermore, phlebotomine sand fly research has served as a key model for studies concerning vector/parasite/host interactions by revealing novel mechanisms defining vector competence, propelling the field of vaccine research into promising areas and identifying novel therapeutics for human use. Although sand fly research has been somewhat delayed in exploiting the burgeoning field of genomics as compared to other human disease vectors, recent ongoing efforts greatly accelerated the field of sand fly genomics. This symposium will provide an update of the genetic tools that are available to the field of sand fly biology, and an overview of the progress that has been made in applying these tools to biological questions.

CHAIR

Mary Ann McDowell

University of Notre Dame, Notre Dame, IN, United States

2:45 p.m.

GENE EXPRESSION AND MICROARRAY ANALYSIS OF PHLEBOTOMINE SAND FLIES

Rod J. Dillon

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

3:10 p.m.

GENETIC VARIATION AMONG POPULATIONS OF THE LUTZOMYIA LONGIPALPIS COMPLEX

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

3:35 p.m.

CHARACTERIZATION OF SAND FLY SIALOMES AND PRACTICAL APPLICATION

Shaden Kamhawi
National Institutes of Health, Rockville, MD, United States

4 p.m.

FUNCTIONAL GENOMICS OF PHLEBOTOMINE SAND FLIES

Marcelo Ortigao
University of Notre Dame, Notre Dame, IN, United States

Symposium 92

The Roles of Regulatory and Alternatively Activated Macrophages in Helminth Infection

Franklin 3/4
Tuesday, November 6, 2007 2:45 p.m. - 4:30 p.m.
The roles regulatory and alternatively activated macrophages play in helminth infection will be discussed. This will include how these macrophages down regulate pro-inflammatory responses *in vivo*, including suppression of T cell function. How these macrophages are activated and their interactions with other regulatory cell populations will also be discussed.

CHAIR

Donald Harn
Harvard University, Boston, MA, United States

William C. Gause
University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Newark, NJ, United States

2:45 p.m.

MACROPHAGES AS REGULATORS AND HEALERS DURING TISSUE NEMATODE INFECTION

Judith Allen
University of Edinburgh, Edinburgh, United Kingdom

3:15 p.m.

SCHISTOSOME MACROPHAGES AND COLON INFLAMMATION: AN ALTERNATIVE VIEWPOINT

Padraic G. Fallon
Trinity Dublin College, Dublin, Ireland

3:40 p.m.

THE ROLE OF ALTERNATIVELY ACTIVATED MACROPHAGES IN PARASITIC DISEASES

Frank Brombacher
University of Cape Town, Cape Town, South Africa

4:05 p.m.

ALTERNATIVELY ACTIVATED MACROPHAGES INDUCED DURING EXPERIMENTAL CYSTICERCOSIS HAVE A SUPPRESSIVE ACTIVITY

Luis I. Terrazas
Unidad de Biomedicina, Universidad Nacional Autónoma de México, Tlalnepantla, Mexico

Symposium 93

Reinfection vs. Recrudescence in *P. Falciparum* Malaria: From Molecular Analysis to Clinical Impact

Salon AB
Tuesday, November 6, 2007 5 p.m. - 6:45 p.m.

In malaria endemic areas, people are often infected and re-infected with malaria several times during a transmission season. Re-infection and parasite recrudescence is a critical area of concern for healthcare workers, clinicians and malaria research scientists. How do we best use genotyping to distinguish recrudescence from new infections when evaluating the clinical efficacy of antimalarials? Can knowing the pharmacokinetics and pharmacodynamics of drugs give us insights into profiling drugs that will best counter more clinical episodes? Correctly identifying the dynamics between re-infection and recrudescence, and methods to stop them, can have a major public health impact.

CHAIR

Anna Wang
Medicines for Malaria Venture, Geneva, Switzerland

Solomon Nwaka
World Health Organization, Geneva, Switzerland

5 p.m.

STRATEGIES ON THE USE OF MOLECULAR TOOLS, METHODS AND PROCEDURES IN CLINICAL TRIALS OF NEW DRUGS

Hans-Peter Beck
Swiss Tropical Institute, Basel, Switzerland

5:25 p.m.

USING PHARMACOKINETICS AND PHARMACODYNAMICS TO PROFILE ANTIMALARIALS' ABILITY TO COUNTER RE-INFECTION OR RECRUDESCENCE

Nick J. White
Mahidol University, Bangkok, Thailand

5:50 p.m.

DISTINGUISHING RE-INFECTION FROM RECRUDESCENCE IN FALCIPARUM CLINICAL TRIALS: A PUBLIC HEALTH PROSPECTIVE

Abdoulaye A. Djimde
University of Bamako, Bamako, Mali

Tuesday, November 6

Detailed Program

6:15 p.m.

THE USE OF GENOTYPING TO DISTINGUISH RECRUDESCENT FROM NEW INFECTIONS

Grant Dorsey

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

Scientific Session 94

Mosquitoes - Vector Biology - Epidemiology II

Salon CD

Tuesday, November 6, 2007

5 p.m. - 6:45 PM

CHAIR

Zach N. Adelman

Virginia Technical University, Blacksburg, VA, United States

Scott A. Bernhardt

Colorado State University, Fort Collins, CO, United States

5 p.m.

640

DISSECTING THE *Aedes aegypti* ANTI-DENGUE IMMUNE RESPONSE

Jose L. Ramirez, Zhiyong Xi, George Dimopoulos

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

5:15 p.m.

641

QTL MAPPING OF RNAI GENES POSSIBLY RELATED TO DENGUE-2 VIRUS DISSEMINATION IN THE MOSQUITO *Aedes aegypti*

Scott A. Bernhardt, Carol D. Blair, Barry J. Beaty, Ken E. Olson, William C. Black

Colorado State University, Fort Collins, CO, United States

5:30 p.m.

642

NEGATIVE EFFECTS OF HOST SEROCONVERSION ON MOSQUITO FITNESS

Donald E. Champagne, Ryan P. Brown

University of Georgia, Athens, GA, United States

5:45 p.m.

643

A TRANSGENIC "SENSOR" STRAIN OF *Aedes aegypti* FOR IMPLICATING GENES INVOLVED IN THE ANTI-VIRAL RNAI PATHWAY

Zach N. Adelman, Michelle Anderson, Elaine Morazzani, Tiffany Gross, Nicole Plakson, Kevin M. Myles

Virginia Tech, Blacksburg, VA, United States

6 p.m.

644

AN EVIDENCE-BASED STRATEGY TO MITIGATE NEW WATER SUPPLY INFRASTRUCTURE RELATED DENGUE RISK IN RURAL AREAS IN SOUTHERN VIETNAM

Jason A. Jeffery¹, Peter A. Ryan¹, Nguyen T. Yen², Hoang M. Duc², Nguyen P. Le Anh², Nguyen Hoang Le², Vu S. Nam³, Tran P. Hau⁴, Simon Kutcher⁵, Brian H. Kay¹

¹Queensland Institute of Medical Research and the Australian Centre for International and Tropical Health, Brisbane, Australia, ²National Institute of Hygiene and Epidemiology, Hanoi, Vietnam, ³Vietnam Administration of Preventive Medicine, Hanoi, Vietnam, ⁴Pasteur Institute, Ho Chi Minh City, Vietnam, ⁵Australian Foundation for the Peoples of Asia and the Pacific Ltd., Ho Chi Minh City, Vietnam

6:15 p.m.

645

SUSTAINED IMPACT OF EVIDENCE-BASED COMMUNITY-DERIVED COMMUNICATION STRATEGIES FOR THE CONTROL OF THE DENGUE VIRUS VECTOR *Aedes aegypti* IN MANAGUA, NICARAGUA

Jorge Arostegui¹, Harold Suazo¹, Alvaro Carcamo¹, Carlos Hernandez¹, Josefina Coloma², Angel Balmaseda³, Neil Andersson⁴, CIETNicaragua Dengue Group¹

¹CIETNicaragua, Managua, Nicaragua, ²Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ³Departamento de Virologia, Centro Nacional de Diagnostico y Referencia, Ministerio de Salud, Managua, Nicaragua, ⁴CIETInternational, Ottawa, ON, Canada

6:30 p.m.

646

Culex pipiens AMPLIFIES WEST NILE VIRUS IN NORTHEASTERN UNITED STATES BY VERTICAL AND HORIZONTAL TRANSMISSION

John F. Anderson¹, Andy J. Main², Karine Delroux³, Erol Fikrig³

¹The Connecticut Agricultural Experiment Station, New Haven, CT, United States, ²American University in Cairo, Cairo, Egypt, ³Yale University, New Haven, CT, United States

Symposium 95

Clinical Group II

Salon E

Tuesday, November 6, 2007 5 p.m. - 6:45 p.m.

This symposium will include a malaria update on diagnosis, treatment and prevention, a Centers for Disease Control and Prevention vaccine update, as well as the Clinical Group annual business meeting.

CHAIR

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

5 p.m.**MALARIA DIAGNOSIS AND TREATMENT UPDATE FROM THE WALTER REED ARMY INSTITUTE OF RESEARCH**

Alan Magill

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

Peter Weina

*Walter Reed Army Institute of Research, Silver Spring, MD, United States***5:25 p.m.****MALARIA PREVENTION UPDATE FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION**

Paul Arguin

*Centers for Disease Control and Prevention, Atlanta, GA, United States***5:50 p.m.****CENTERS FOR DISEASE CONTROL AND PREVENTION TRAVELERS' VACCINE UPDATE**

Nina Marano

*Centers for Disease Control and Prevention, Atlanta, GA, United States***6:15 p.m.****CLINICAL GROUP ANNUAL BUSINESS MEETING**

Anne McCarthy

*Ottawa Hospital, Ottawa, ON, Canada***Scientific Session 96****American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Cellular Parasitology II***Supported with funding from The Burroughs Wellcome Fund*

Salon F

Tuesday, November 6, 2007

5 p.m. - 6:45 PM

CHAIR

Jean Feagin

Seattle Biomedical Research Institute, Seattle, WA, United States

Ana Rodriguez

*New York University, New York, NY, United States***5 p.m.****1069****A TOXOPLASMA GONDII HOMOLOGUE OF TIC20 (TGTIC20) IS ESSENTIAL FOR APICOPLAST PROTEIN IMPORT, APICOPLAST BIOGENESIS AND PARASITE SURVIVAL**Giel van Dooren¹, Cveta Tomova², Swati Agrawal³, Bruno Humbel², Boris Stripen¹*¹Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States, ²Department of Biology, Utrecht University, Utrecht, The Netherlands, ³Department of Cellular Biology, University of Georgia, Athens, GA, United States***5:15 p.m.****1070****ELONGATION FACTOR 1A MEDIATES THE SPECIFICITY OF MITOCHONDRIAL TRNA IMPORT IN T. BRUCEI**

Eric Aeby, Nabile Bouzaidi-Tiali, Fabien Charriere, Mascha Pusnik, Andre Schneider

*University of Fribourg, Fribourg, Switzerland***5:30 p.m.****647****PROTEIN TRAFFICKING TO THE MEMBRANES OF THE RELICT CHLOROPLAST OF APICOMPLEXANS**Marilyn Parsons¹, Anuradha Karnataki¹, Amy DeRocher¹, Isabelle Coppens², Jean E. Feagin¹*¹Seattle Biomedical Research Institute, Seattle, WA, United States, ²Johns Hopkins University, Baltimore, MD, United States***5:45 p.m.****648****HUMAN DEFENSIN α -1 KILLS *TRYPANOSOMA CRUZI* VIA MEMBRANE PORE FORMATION LEADING TO APOPTOSIS**

M. Nia Madison, Yuliya Kleshchenko, Pius Nde, Kaneatra Simmons, Maria F. Lima, Fernando Villalta

*Meharry Medical College, Nashville, TN, United States***6 p.m.****649****MOLECULAR CHARACTERIZATION OF A PLASMODIUM-DERIVED INFLAMMATORY FACTOR**Jamie M. Orenge¹, James E. Evans², Aleksandra Leliwa-Sytek¹, Karen P. Day¹, Ana Rodriguez¹*¹New York University School of Medicine, New York, NY, United States,**²University of Massachusetts Medical School, Worcester, MA, United States***6:15 p.m.****ACMCIP ANNUAL BUSINESS MEETING**

Sarah Volkman

Harvard School of Public Health, Boston, MA, United States

Detailed Program

Symposium 97

Recent Clinical Trials of Apical Membrane Antigen 1, a Leading Blood-Stage Vaccine Candidate for *Plasmodium Falciparum* Malaria

Salon G

Tuesday, November 6, 2007 5 p.m. - 6:45 p.m.

This symposium will update results from four recent phase 1 and 2 clinical trials of apical membrane antigen 1 (AMA1) in various populations with different adjuvant formulations.

CHAIR

Mark A. Pierce

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States

Ogobara Doumbo

University of Bamako, Bamako, Mali

5 p.m.

INTRODUCTION

Ogobara Doumbo

University of Bamako, Bamako, Mali

5:10 p.m.

ASSESSMENT OF THE SAFETY AND IMMUNOGENICITY OF THE RECOMBINANT *PICHIA PASTORIS* AMA1 [PFAMA-1-FVO[25-545] BLOOD STAGE MALARIA VACCINE FORMULATED IN THREE DIFFERENT ADJUVANTS IN HEALTHY DUTCH ADULTS

Meta Roestenberg

Radboud University Medical Center, Nijmegen, The Netherlands

5:30 p.m.

RANDOMIZED, CONTROLLED, DOSE ESCALATION PHASE 1 CLINICAL TRIAL TO EVALUATE THE SAFETY AND IMMUNOGENICITY OF WALTER REED ARMY INSTITUTE OF RESEARCH'S AMA-1 MALARIA VACCINE (FMP 2.1) ADJUVANTED IN GSKBIO'S AS02A VS. RABIES VACCINE IN 1-6 YEAR OLD CHILDREN IN BANDIAGARA, MALI

Mahamadou A. Thera

University of Bamako, Bamako, Mali

5:50 p.m.

PHASE 1/2A STUDY OF THE SAFETY, IMMUNOGENICITY AND PRELIMINARY EFFICACY AFTER SPOROZOITE CHALLENGE OF CANDIDATE MALARIA VACCINE AMA1 ADJUVANTED WITH AS01B AND AS02A AND GIVEN IM AT MONTHS 0, 1, AND 2 IN HEALTHY MALARIA-NAIVE ADULTS IN THE UNITED STATES

Michele D. Spring

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

6:10 p.m.

RANDOMIZED, CONTROLLED, PHASE 2 STUDY OF THE SAFETY AND IMMUNOGENICITY OF AMA1-C1/ALHYDROGEL VACCINE FOR *PLASMODIUM FALCIPARUM* MALARIA IN CHILDREN IN BANCOUMANA, MALI

Alassane Dicko

University of Bamako, Bamako, Mali

6:30 p.m.

CLOSING REMARKS AND PANEL DISCUSSION/QUESTIONS

Mark Pierce

National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States

Symposium 98

Experimental Aspects of the Host-Parasite Relationship in Cystic and Alveolar Echinococcosis

Salon H

Tuesday, November 6, 2007 5 p.m. - 6:45 p.m.

This symposium will cover the more recent experimental insights into the host-parasite interactions during infection with *Echinococcus granulosus* and *Echinococcus multilocularis*. This includes (i) the taxonomy and phylogeny of the genus *Echinococcus*, and aspects concerning transmission of the parasite; (ii) the host-parasite interplay during experimental *E. multilocularis* infection in mice; (iii) recent insights into the pattern and significance of the *Echinococcus* AgB genetic diversity; and (iv) studies on how the complex cytokine network is modulating the immune response in experimental *E. granulosus* infections.

CHAIR

Andrew Hemphill

University of Berne, Berne, Switzerland

5 p.m.

INTRODUCTION

Peter Kern

University Hospital and Medical Center, University of Ulm, Ulm, Germany

5:10 p.m.

THE TAXONOMY, PHYLOGENY AND TRANSMISSION OF ECHINOCOCCUS

Andrew Thompson

University of Murdoch, Murdoch, Australia

5:35 p.m.

HOST-PARASITE INTERPLAY IN MURINE ALVEOLAR ECHINOCOCCOSIS

Bruno Gottstein

University of Berne, Berne, Switzerland

6 p.m.

PATTERN AND SIGNIFICANCE OF THE ECHINOCOCCUS AGB GENETIC DIVERSITY

Karen Haag

Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

6:25 p.m.

COMPLEXITY AND FUNCTION OF CYTOKINE RESPONSES IN EXPERIMENTAL INFECTION BY ECHINOCOCCOSIS

Sylvia Dematteis

Universidad de la República, Montevideo, Uruguay

Symposium 99

Unmasking the Link Between Helminth Parasites and Increased Susceptibility to Unrelated Pathogens

Salon II

Tuesday, November 6, 2007 5 p.m. - 6:45 p.m.

The “hygiene hypothesis” has raised attention concerning the immunomodulatory effects of helminth parasites, including their ability to increase susceptibility to unrelated pathogens. This symposium is designed to provide a review, as well as to update the latest progress in human studies and experimental models concerning the cellular and molecular mechanisms used by helminth parasites to modulate host immune responses and increase susceptibility to other major tropical diseases.

CHAIR

Mary M. Stevenson

McGill University Health Centre, Montreal, QC, Canada

Padmini Salgame

University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Newark, NJ, United States

5 p.m.

REGULATION AND FUNCTION OF ALTERNATIVELY-ACTIVATED MACROPHAGES DURING INFECTION

Thomas A. Wynn

National Institutes of Health, Bethesda, United States

5:25 p.m.

MYCOBACTERIAL/FILARIAL CO-INFECTIONS: FROM THE FIELD TO THE BENCH AND BACK AGAIN.

Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

5:50 p.m.

THE FILARIAL NEMATODE SECRETED PRODUCT ES-62: EFFECT ON AUTOIMMUNITY, ALLERGY AND INFECTION WITH PATHOGENS

William Harnett

Strathclyde University, Glasgow, United Kingdom

6:15 p.m.

NEMATODE CO-INFECTION INFLUENCES HOST RESPONSE TO M. TUBERCULOSIS

Padmini Salgame

University of Medicine and Dentistry of New Jersey-New Jersey Medical School, Newark, NJ, United States

Symposium 100

Bridging the Access Gap: Countries Prepare to Ensure Prompt Access to New Antimalarials

Salon KL

Tuesday, November 6, 2007 5 p.m. - 6:45 p.m.

Artemisinin Combination Therapy (ACT) deployment today is primarily through the public sector, whose reach is limited in many countries. Measures are urgently needed to ensure that patients promptly receive the new medicines for malaria. Speakers will discuss the gaps in ACT availability, lessons learned through early deployment in Zambia and present initiatives to widen the reach of ACTs, for example through the private sector in Uganda. The final speaker will address issues related to managing the opportunities and challenges that will arise in the next two years, with the emergence of new antimalarials from the drug development process.

CHAIR

Christopher Hentschel

Medicines for Malaria Venture, Geneva, Switzerland

Richard W. Steketee

Malaria Control and Evaluation Partnership in Africa, Ferney Voltaire, France

5 p.m.

SETTING THE STAGE

Richard W. Steketee

Malaria Control and Evaluation Partnership in Africa, Ferney Voltaire, France

5:05 p.m.

BARRIERS TO PROMPT AND EFFECTIVE MALARIA TREATMENT: WHAT MATTERS!

Christian Lengeler

Swiss Tropical Institute, Basel, Switzerland

5:20 p.m.

BEYOND THE PUBLIC SECTOR: LESSONS LEARNT THROUGH EARLY DEPLOYMENT IN ZAMBIA

Elizabeth Chizema

Ministry of Health, Lusaka, Zambia

5:35 p.m.

PULLING IN THE PRIVATE INFORMAL SECTOR IN UGANDA

Ambrose Talisuna

Ministry of Health, Kampala, Uganda

5:50 p.m.

SCIENCE IN THE FACE OF ACCESS

Christopher Hentschel

Medicines for Malaria Venture, Geneva, Switzerland

Tuesday, November 6

Scientific Session 101**Malaria - Drug Development***Liberty AB*

Tuesday, November 6, 2007

5 p.m. - 6:45 PM

CHAIR

Mary Lynn Baniecki

Harvard Medical School, Boston, MA, United States

Alfred Tiono

*CNRFP, Ouagadougou, Burkina Faso***5 p.m.****650****REVIEW OF EXPERIMENTAL THERAPEUTICS CHEMICAL INFORMATION SYSTEM FOR ALL COMPOUNDS ACTIVE IN PROPHYLAXIS ANIMAL MODELS****Colin Ohrt**¹, Lahna Jones², John Notsch¹, Jacob Johnson¹, William McCalmont¹, Charlotte Lanteri¹, AJ Lin¹, Wilbur Milhous¹, Alan Magill¹, William Ellis¹¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,²Thermo Fisher Scientific, Inc, Gaithersburg, MD, United States**5:15 p.m.****651****REAL TIME ELECTRONIC DATA CAPTURE (EDC) IN PHASE III CDA TRIALS OPTIMISES SAFETY MONITORING CHECKS AND TRIAL CONDUCT****Alfred Tiono**¹, Alassane Dicko², Zul Premji³, Tsiri Agbenyega⁴, Jacob O. Awobusuyi⁵, Steffen Borrmann⁶, Fabian Essamia⁷, Emmanuel Ezedinachi⁸, Robert Guiguemde⁹, Achille Massougbedji¹⁰, Dennis Ndububa¹¹, Stephen Oguche¹², Louis Penali¹³, Simon Pitmang¹⁴, Seth Owusu-Agyei¹⁵, Akin Sowunmi¹⁶, Rich Umeh¹⁶, Ismaila Watila¹⁷, Anthony Thompson¹⁸, Lisa Nash¹⁸, Li Ean Goh¹⁸¹CNRFP, Ouagadougou, Burkina Faso, ²MRTC, University of Bamako, Bamako, Mali, ³Ifakara Health Research Centre, Bagamoyo District Hospital, Dar-es-Salaam, United Republic of Tanzania, ⁴Komfo Anokye Teaching Hospital, Kumasi, Ghana, ⁵Lagos State University Teaching Hospital, Lagos, Nigeria, ⁶Kenya Medical Research Centre, Kilifi, Kenya, ⁷Moi University, Eldoret, Kenya, ⁸University of Calabar Teaching Hospital, Delta State, Nigeria, ⁹Institute Supérieur des Sciences de la Santé, Université Polytechnique de Bobo, Diolasso, Burkina Faso, ¹⁰Faculté des Sciences de la Santé, CNHU, Cotonou, Benin, ¹¹Obafemi Awolowo Teaching Hospital, Ile-Ife, Nigeria, ¹²University of Jos Teaching Hospital, Jos, Nigeria, ¹³Institute Pasteur de Cote d'Ivoire, Abidjan, Cote d'Ivoire, ¹⁴Plateau State Specialist Hospital, Jos, Nigeria, ¹⁵Kintampo Health Research Centre, Kintampo, Ghana, ¹⁶University of Nigeria Teaching Hospital, Enugu, Nigeria, ¹⁷Borno State Specialist Hospital, Maiduguri, Nigeria, ¹⁸GlaxoSmithKline, Middlesex, United Kingdom**5:30 p.m.****652****A MULTI-DIMENSIONAL SCREENING STRATEGY TO DISCOVER NEW ANTIMALARIAL THERAPEUTICS****Mary Lynn Baniecki**¹, Margaret A. Rush², Vishal Patel¹, Ralph Mazitschek³, Robert Barker⁴, Roger Wiegand³, Jeff Klinger⁴, Dyanne F. Wirth², Jon Clardy¹¹Harvard Medical School, Boston, MA, United States, ²Harvard School of Public Health, Boston, MA, United States, ³The Broad Institute of Harvard and MIT, Cambridge, MA, United States, ⁴Genzyme, Waltham, MA, United States**5:45 p.m.****653****MALARIA-INFECTED MICE ARE CURED BY NEW TRIOXANE DIMERS**Gary H. Posner¹, Wonsuk Chang², **Andrew S. Rosenthal**², Ik-Hyeon Paik², Kristina Borstnik², Sandra Sinishtaj², Aimee Usera², Lindsey Hess², Lauren Woodard², Kimberly S. Petersen², Theresa A. Shapiro³¹Department of Chemistry and Malaria Research Institute, Johns Hopkins University, Baltimore, MD, United States, ²Department of Chemistry, Johns Hopkins University, Baltimore, MD, United States, ³Department of Clinical Pharmacology and Malaria Research Institute, Johns Hopkins University, Baltimore, MD, United States**6 p.m.****654****ANTIMALARIAL ACTIVITY AND MECHANISM OF ACTION OF ARTEMISININ ANTIMALARIALS: IS THE DIGESTIVE VACUOLE (DV) THE PRIMARY TARGET?****Maria del Pilar Crespo Ortiz**¹, Thomas Avery², Eric Hanssen³, Dennis Taylor², Leann Tilley¹¹Department of Biochemistry, La Trobe University, Melbourne, Australia, ²Department of Chemistry, Adelaide University, South Australia, Australia, ³Centre of Excellence for Coherent X-Ray Science, La Trobe University, Melbourne, Australia**6:15 p.m.****655****TOWARD OPTIMIZATION OF 'REVERSED CHLOROQUINES': IMPROVEMENTS AND NEW SCAFFOLDS****David H. Peyton**, Steven J. Burgess, Jane X. Kelly, Bornface Gunsaru, Cheryl Hodson, Katherine Liebman*Portland State University, Portland, OR, United States*

6:30 p.m.

656

SELECTIVE INHIBITORS OF BETA-KETOACYL ACP SYNTHASE III (PFKASIII) IN *PLASMODIUM FALCIPARUM* FATTY ACID SYNTHESIS: FROM TARGET VALIDATION TO *IN VIVO* EFFICACY

Norman C. Waters¹, Heather W. Gaona¹, Jacob D. Johnson¹, Thomas H. Hudson¹, Jayendra B. Bhonsle¹, Donald P. Huddler¹, Tiffany N. Heady¹, Mara Kreishman-Deitrick¹, William F. McCalmont¹, Apurba K. Bhattacharjee¹, Sean T. Prigge², Norma E. Roncal¹, Miriam Lopez-Sanchez¹, Lucia Gerena¹, Patricia J. Lee¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²Johns Hopkins University, Baltimore, MD, United States

Symposium 102

Socio-Political Issues in Tropical Medicine: Japanese Encephalitis Vaccines

Franklin 3/4

Tuesday, November 6, 2007 5 p.m. - 6:45 p.m.

ASTMH members are often vexed by the inability to bring basic science and proven interventions to affected populations. Japanese Encephalitis is an example of an emerging and a marginalized disease. It is also one of the few tropical diseases for which there is an effective intervention (vaccines). However, bringing JE vaccines from the lab to the field has been unnecessarily slow for a number of reasons that include but are not limited to medical/scientific debate. This symposium presents key issues from scientific, medical and policy debates that address the role and function of JE policy committees, how committees construct issues, evaluate evidence and how these issues were addressed among various constituents to get the SA 14-14-2 vaccine in use in South Asia.

CHAIR

Frank Mannix

Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

5 p.m.

AN ECOLOGICAL APPROACH TO JAPANESE ENCEPHALITIS AND JE VACCINES

Frank Mannix

Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

5:25 p.m.

VACCINE POLICY AND RECOMMENDATIONS IN ASIA

Theodore Tsai

Novartis, Philadelphia, PA, United States

5:50 p.m.

JE VACCINES: WHERE WAS THE PUBLIC INTEREST?

Scott B. Halstead

Pediatric Dengue Vaccine Initiative, IVI, Seoul, Republic of Korea

6:15 p.m.

JE CONTROL: CREATING A PUBLIC HEALTH SUCCESS

Julie Jacobson

Bill & Melinda Gates Foundation, Seattle, WA, United States

Poster Session B Dismantle

Franklin Hall B

Tuesday, November 6, 2007 7 p.m. - 8 p.m.

Meet the Professors 103

Meet the Professors D: American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Professional Development Series on Mentoring

Salon CD

Tuesday, November 6, 2007 7:15 p.m. - 9 p.m.

The American Committee of Molecular, Cellular and Immunoparasitology will host the first of an annual "Meet the Professors" style session at the ASTMH meeting on topics concerning professional development. The first of these topics will be on mentoring, where three-four senior faculty who have mentored many students and postdoctoral fellows will each provide 15 minutes of "mentoring pearls" from their own experiences. One or more of these faculty members will have experience mentoring clinicians in parasitology. After the panel members share their insights, there will be an open discussion to answer questions from the audience and explore thematic topics raised in the presentations. This session will be generally directed at senior postdoctoral fellows, clinical fellows and junior faculty who are transitioning to leadership roles that involve mentoring students and trainees in parasitology. A light dinner will be served.

CHAIR

Sarah Volkman

Harvard School of Public Health, Boston, MA, United States

PANELISTS

Stephen L. Hoffman

Sanaria Inc., Rockville, MD, United States

William A. Petri

University of Virginia, Charlottesville, VA, United States

Regina Rabinovich

Bill and Melinda Gates Foundation, Seattle, WA, United States

Dyann Wirth

Harvard School of Public Health, Boston, MA, United States

Detailed Program

Symposium 104

Malaria Postgenomics

Supported with funding from The Burroughs Wellcome Fund

Salon E

Tuesday, November 6, 2007 7:15 p.m. - 9 p.m.

CHAIR

Victoria P. McGovern

Burroughs Wellcome Fund, Research Triangle Park, NC, United States

This informal session will highlight postgenomic work in plasmodium. There will be updates from major projects, as well as highlights featuring work from the bench, clinic and field that exploits genomic and postgenomic resources now available. Time will be available for discussion and audience questions.

Session 104A

Chagas: A Hidden Affliction

Salon H

Tuesday, November 6, 2007 7:15 p.m. - 9 p.m.

Filmed in Argentina, the United States and Europe, this documentary gives a voice to those suffering from Chagas, and to those working to find a cure to this disease that affects about 20 million people worldwide, but is practically unknown to the general public.

Chair

Rick L. Tarleton

University of Georgia, Athens, GA, United States

PRODUCER

Ricardo Preve

Ricardo Preve Films LLC, Buenos Aires, Argentina

Wednesday, November 7

Registration

Grand Ballroom Foyer

Wednesday, November 7, 2007 7 a.m. - 5 p.m.

Cyber Cafe

Franklin Hall Foyer

Wednesday, November 7, 2007 7 a.m. - 5 p.m.

Speaker Ready Room

Rooms 413-415

Wednesday, November 7, 2007 7 a.m. - 6 p.m.

Scientific Program Committee Meeting

Rooms 303-304

Wednesday, November 7, 2007 7 a.m. - 8 a.m.

ASTMH Past Presidents Meeting

Room 305

Wednesday, November 7, 2007 7 a.m. - 8 a.m.

Web Site Committee Meeting

Room 362

Wednesday, November 7, 2007 7 a.m. - 8 a.m.

Press Room

Rooms 403-404

Wednesday, November 7, 2007 8 a.m. - 6 p.m.

Symposium 105

Accounting for Heterogeneity Will Improve Prevention of Mosquito-Borne Disease

Salon AB

Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.

Recent analyses of large data sets across a variety of diseases indicate that targeted disease prevention is more effective than uniform application across an affected population. In this symposium, we will discuss for malaria and dengue the impact of heterogeneities on transmission dynamics and improved disease prevention when control is appropriately targeted. Symposium participants are engaged in longitudinal field studies that capture person/location-specific data necessary to identify heterogeneity in pathogen transmission for the purposes of disease prevention, developing the theory and analytical methods necessary for effective identification of key components of variation and developing the most effective applications of targeted disease prevention strategies. Speakers will summarize these data and discuss the relevance of targeting as a way of improving public health interventions through integrated disease control, including future field studies that combine vector control, drugs and vaccines.

CHAIR

Thomas W. Scott

University of California, Davis, CA, United States

David L. Smith

Fogarty International Center, Bethesda, MD, United States

8 a.m.

FORGOTTEN LESSONS IN VECTOR-BORNE DISEASE PREVENTION

F. Ellis McKenzie

Fogarty International Center, Bethesda, MD, United States

8:30 a.m.

PREVENTING CHILDHOOD MALARIA IN AFRICA BY PROTECTING ADULTS FROM MOSQUITOES WITH INSECTICIDE-TREATED NETS

Gerry F. Killeen

Ifakara Health Research and Development Center, Ifakara, Kilombero District, United Republic of Tanzania

8:55 a.m.**IMPROVING DISEASE PREVENTION WHEN HUMAN BITING RATES ARE HETEROGENEOUS**

David L. Smith

*Fogarty International Center, Bethesda, MD, United States***9:20 a.m.****THE VALUE OF LOCAL AND FOCAL CONTROL FOR DENGUE**

Thomas W. Scott

*University of California, Davis, CA, United States***Symposium 106****A Legacy of Antimalarial Discovery: Project 523 and the Isolation of Artemisinin***Salon CD***Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.**

Although herbal remedies from the Qinghao plant *Artemisia annua* were recorded for medical ailments, including hemorrhoids, in the 2nd century BCE, the first known clear description of malaria treatment with Qinghao infusion was in the 4th century CE by Ge Hong, a Dao philosopher and writer of the Jin Dynasty. When Chinese research Project 523 was launched in 1967 to find new drugs for chloroquine-resistant malaria, its scientists drew on Chinese traditional medicine and Ge Hong's work to isolate artemisinin (early 1970s). Speakers in this symposium will relate the history of Project 523, its discovery of artemisinin and many other antimalarials, and some subsequent clinical trials and malaria control projects with artemisinin-based combination therapies.

CHAIR

Thomas E. Wellemis

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Guoqiao Li

*Guangzhou University of Chinese Medicine, Guangzhou, China***8 a.m.****GE HONG AND HERBAL MEDICINE TREATMENT FOR MALARIA**

Xinhua Wang

*Guangzhou University of Chinese Medicine, Guangzhou, China***8:30 a.m.****PROJECT 523 AND THE DISCOVERY OF ARTEMISININ**

Keith Arnold

*Consultant, Retired from Centre for Tropical Diseases - Ho Chi Minh City, Lakeport, CA, United States***8:55 a.m.****PROJECT 523 AND ARTEMISININ DERIVATIVES**

Richard K. Haynes

*Hong Kong University of Science and Technology, Hong Kong***9:20 a.m.****CLINICAL TRIALS AND MALARIA CONTROL BY ARTEMISININ-BASED COMBINATION THERAPIES**

Jianping Song

*Guangzhou University of Chinese Medicine, Guangzhou, China***Symposium 107****Reviving "One Medicine/One Health" Concept: To Enhance Biomedical Research and Public Health Efficacy***Salon E***Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.**

This symposium explores the rationale for a new Initiative (named the 'One Health' or 'One Medicine' Initiative) that establishes closer ties and interactions between the human and veterinary medicine disciplines as a means to enhance research, surveillance, treatment, prevention and control of diseases affecting humans and animals.

CHAIR

Thomas P. Monath

Kleiner Perkins Caufield & Byers, Harvard, MA, United States

Arthur H. Rubenstein

University of Pennsylvania, Philadelphia, PA, United States

Duane Gubler

*Asia-Pacific Institute of Tropical Medicine and Infectious Disease, Honolulu, HI, United States***8 a.m.****ONE MEDICINE - POTENTIAL BENEFITS TO BIOSECURITY, DISEASE CONTROL AND THE DEVELOPMENT OF BIOPHARMACEUTICAL PRODUCTS**

Thomas P. Monath

*Kleiner Perkins Caufield & Byers, Harvard, MA, United States***8:15 a.m.****ONE MEDICINE - VETERINARY MEDICINE AND PUBLIC HEALTH AT CENTERS FOR DISEASE CONTROL AND PREVENTION**

Lonnie J. King

*Centers for Disease Control and Prevention, Atlanta, GA, United States***8:30 a.m.****ONE MEDICINE - A BRIEF HISTORICAL OVERVIEW**

Laura H. Kahn

*Princeton University, Princeton, NJ, United States***8:50 a.m.****ONE WORLD, ONE HEALTH, ONE MEDICINE - ENHANCING THE INTEGRATION OF ANIMAL, HUMAN AND ECOSYSTEM HEALTH FOR THE MUTUAL BENEFIT OF ALL**

Roger K. Mahr

American Veterinary Medical Association, Schaumburg, IL, United States

Detailed Program

9:10 a.m.

ONE MEDICINE - VETERINARIANS AND PHYSICIANS: THE NEED TO COMMIT TO PREVENTION OF ZONOTIC PROCESSES-A PUBLIC HEALTH

H. Fred Troutt

University of Illinois, Urbana, IL, United States

9:30 a.m.

A CENTURY OF ONE MEDICINE - INTEGRATED HEALTH AND BIOMEDICAL RESEARCH TRAINING AT THE UNIVERSITY OF PENNSYLVANIA

Joan C. Hendricks

University of Pennsylvania, Philadelphia, PA, United States

Scientific Session 108

Flavivirus IV - West Nile Virus

Salon F

Wednesday, November 7, 2007

8 a.m. - 9:45 a.m.

CHAIR

Aaron C. Brault

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

Laura D. Kramer

Wadsworth Center, Slingerlands, NY, United States

8 a.m.

657

CLIMATE, EVOLUTION, AND THE TRANSMISSION OF WEST NILE VIRUS IN MOSQUITOES

A. Marm Kilpatrick¹, Mark M. Meola², Robin M. Moudy², Noah S. Diffenbaugh³, Laura D. Kramer²

¹*Consortium for Conservation Medicine, New York, NY, United States*, ²*New York State Department of Health, Slingerlands, NY, United States*, ³*Purdue University, West Lafayette, IN, United States*

8:15 a.m.

658

INFECTION, DISSEMINATION, AND TRANSMISSION OF A WEST NILE VIRUS GREEN FLUORESCENT PROTEIN INFECTIOUS CLONE BY CULEX PIPIENS QUINQUEFASCIATUS MOSQUITOES

Charles E. McGee, Alexandr V. Shustov, Konstantin Tsetsarkin, Ilya V. Frolov, Peter W. Mason, Dana L. Vanlandingham, Stephen Higgs

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

8:30 a.m.

659

DELIVERY OF WEST NILE VIRUS BY MOSQUITO BITE RESULTS IN HIGHER VIREMIA, EARLIER NEUROINVASION, AND FASTER SPREAD TO PERIPHERAL TISSUES

Linda M. Styer, Karen L. Louie, Rebecca G. Albright, Laura D. Kramer, Kristen A. Bernard

Wadsworth Center, New York State Department of Health, Albany, NY, United States

8:45 a.m.

660

STRUCTURAL MUTATIONS WITHIN THE PRM AND E GENES OF A WEST NILE VIRUS FROM MEXICO CONFER AN ATTENUATED REPLICATION PHENOTYPE IN AVIANS

Aaron C. Brault¹, Stanley A. Langevin¹, Payal D. Maharaj¹, Christy C. Andrade¹, Shuliu Zhang², Richard M. Kinney³, Alan D. Barrett², Richard A. Bowen⁴, David W. Beasley²

¹*University of California, Davis, Davis, CA, United States*, ²*University of Texas Medical Branch, Galveston, TX, United States*, ³*Centers for Disease Control and Prevention, Fort Collins, CO, United States*, ⁴*Colorado State University, Fort Collins, CO, United States*

9 a.m.

661

ATTENUATING MUTATIONS IN THE WEST NILE VIRUS NS3 PROTEIN

Gregory D. Ebel¹, Pei-Yong Shi², Laura D. Kramer³, Greta V. Jerzak³, Corey J. Bennett³, Kristen A. Bernard³

¹*University of New Mexico School of Medicine, Albuquerque, NM, United States*, ²*Wadsworth Center, Albany, NY, United States*, ³*Wadsworth Center, Slingerlands, NY, United States*

9:15 a.m.

662

IN VIVO PHENOTYPIC DIFFERENCES BETWEEN WEST NILE VIRUS GENOTYPES MAY CONTRIBUTE TO GENOTYPE DISPLACEMENT

Robin M. Moudy, Laura-Lee L. Morin, Mark A. Meola, Laura D. Kramer

Wadsworth Center, New York State Department of Health, Albany, NY, United States

9:30 a.m.

663

LONG-TERM IGM AND IGG INDEX VALUES TO WEST NILE VIRUS IN A MULTI-VARIANT SAMPLE SET FROM NEW MEXICO WNV SURVIVORS

Diane Goade¹, Robert A. Nofchissey¹, Leonor Echevarria¹, Steven Pergam², Steve Young³, Paul Ettestad⁴, Charles M. Sewell⁴, Larry Davis⁵

¹*University of New Mexico, Albuquerque, NM, United States*, ²*University of Washington, Seattle, WA, United States*, ³*Tricor Reference Laboratory, Albuquerque, NM, United States*, ⁴*New Mexico Department of Health, Santa Fe, NM, United States*, ⁵*Veteran's Affairs Hospital, Albuquerque, NM, United States*

Scientific Session 109

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Immunoparasitology I

Supported with funding from The Burroughs Wellcome Fund

Salon G

Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.

CHAIR

Lisa Ganley-Leal

Boston University School of Medicine, Boston, MA, United States

Mary Ann McDowell

University of Notre Dame, Notre Dame, IN, United States

8 a.m.

664

IL-4 MEDIATES HUMAN B CELL RESPONSIVENESS TO SCHISTOSOMAL ANTIGENS

Barbara Nikolajczyk¹, Pauline Mwinzi², Diana Karanja³, W. Evan Secor⁴, Daniel Colley⁵, **Lisa M. Ganley-Leal**¹

¹Boston University School of Medicine, Boston, MA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Kenya Medical Research Institute, Kenya, Kenya, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵University of Georgia, Athens, GA, United States

8:15 a.m.

665

ABUNDANCE OF IMMUNOMODULATORY PROTEINS REVEALED BY ANALYSIS OF THE EXCRETORY-SECRETORY (E/S) PROTEOME OF *BRUGIA MALAYI*

Sasisekhar Bennuru¹, Roshanak Semnani¹, Jose MC Ribeiro², Zhaojing Meng³, Timothy D. Veenstra³, Thomas B. Nutman¹

¹Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ³Laboratory of Proteomics and Analytical Technologies, SAIC-Frederick Inc., National Cancer Institute at Frederick, Frederick, MD, United States

8:30 a.m.

666

COEXISTENT FILARIAL INFECTIONS DOWNREGULATE ANTIGEN-SPECIFIC TH1 AND TH17 RESPONSES IN LATENT TUBERCULOSIS: ASSOCIATION WITH ENHANCED EXPRESSION OF CTLA-4 AND PD-1

Subash Babu¹, V. Jayantasri², S. Rukmani², Paul Kumaran², P. G. Gopi², K. Sadacharam², V. Kumaraswami², Thomas B. Nutman¹

¹National Institutes of Health, Bethesda, MD, United States, ²Tuberculosis Research Centre, Chennai, India

8:45 a.m.

667

BRUGIA MALAYI MICROFILARIAE INHIBIT IFN γ AND TNF- α IN RESPONSE TO *MYCOBACTERIUM TUBERCULOSIS* INFECTION IN A MURINE COINFECTION MODEL

Kawsar R. Talaat¹, Carl G. Feng¹, Charles A. Scanga², Margaret M. Mentink-Kane¹, Sandy White¹, Thomas B. Nutman¹

¹National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ²Aeras, Rockville, MD, United States

9 a.m.

668

EFFECTS OF CXCL10 ON DENDRITIC CELLS AND CD4+ T CELL FUNCTION DURING *L. AMAZONENSIS* INFECTION

Lynn Soong, Rene E. Vasquez

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

9:15 a.m.

669

EFFECT OF DRUG TREATMENT ON THE DEVELOPMENT OF CD8+ T CELL MEMORY SUBSETS IN *TRYPANOSOMA CRUZI* INFECTION

Juan Bustamante¹, Rick Tarleton²

¹Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States, ²Center for Tropical and Emerging Global Diseases and Department of Cellular Biology, University of Georgia, Athens, GA, United States

9:30 a.m.

670

LEISHMANIA MAJOR INDUCED INTERLEUKIN-12 EXPRESSION IN HUMAN DENDRITIC CELLS IS MEDIATED BY NF κ B, IRF-1 AND IRF-8

Asha Jayakumar¹, Michael J. Donovan², Marcelo Ramhalo-Ortigao², **Mary Ann McDowell**²

¹School of Medicine, Yale University, New Haven, CT, United States, ²University of Notre Dame, Notre Dame, IN, United States

Scientific Session 110

Malaria - Epidemiology I

Salon H

Wednesday, November 7, 2007
8 a.m. - 9:45 a.m.

CHAIR

Gerard Killeen

Ifakara Health Research and Development Center, Dar Es Salaam, United Republic of Tanzania

Ashwani Kumar

National Institute of Malaria Research, Delhi, India

Detailed Program

8 a.m.

671

MATHEMATICAL MODELING OF MALARIA EPIDEMIOLOGY AND CONTROLNakul Chitnis¹, Thomas A. Smith¹, Richard Steketee², Nicolas Maire¹, Amanda Ross¹¹Swiss Tropical Institute, Basel, Switzerland, ²PATH, Ferney-Voltaire, France

8:15 a.m.

672

COVERAGE, TARGETING AND IMPACT OF DIVERSE MALARIA CONTROL STRATEGIES: A PRAGMATIC APPROACH TO TRANSLATING THEORY INTO PRACTICE

Gerry Killeen

Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania

8:30 a.m.

673

MEASURING BURDEN OF MALARIA FROM PRIMARY MORBIDITY AND MORTALITY ESTIMATES IN JHARKHAND STATE OF INDIA-LESSONS LEARNED AND FUTURE PROSPECTS

Ashwani Kumar

National Institute of Malaria Research, Delhi, India

8:45 a.m.

674

COMMUNITY-LEVEL INTERVENTION COVERAGE AND THE BURDEN OF MALARIA IN ZAMBIA: RESULTS OF A NATIONAL MALARIA INDICATOR SURVEYJohn M. Miller¹, Amara L. Robinson², Chilandu Mukuka³, Abdirahaman Mohamed¹, Eric Sieber⁴, Pascalina Chanda³, Richard W. Steketee¹¹PATH, Seattle, WA, United States, ²Consultant, Lusaka, Zambia, ³Ministry of Health, Lusaka, Zambia, ⁴Ohio State University, Columbus, OH, United States

9 a.m.

675

GEOGRAPHIC AND TEMPORAL CLUSTERING OF MALARIA IN AN URBAN COHORT OF UGANDAN CHILDRENBryan Greenhouse¹, Tamara D. Clark¹, Edmund Seto², Moses R. Kanya³, Denise Njama-Meya³, Bridget Nzarubara³, Philip J. Rosenthal¹, Grant Dorsey¹¹University of California, San Francisco, San Francisco, CA, United States, ²University of California, Berkeley, Berkeley, CA, United States, ³Makerere University School of Medicine, Kampala, Uganda

9:15 a.m.

676

MALARIA IN PREGNANCY IN AN AREA WITH INCREASED BED-NET COVERAGE: A TEN-YEAR HISTORYAbdunoor M. Kabanywany¹, John R. MacArthur², W. A. Stolk³, Abdullah Baja¹, Vera Juma¹, Charles Maswi¹, Peter B. Bloland², Hassan Mshinda⁴, J. D. Habbema³, S. Patrick Kachur², Salim Abdulla¹¹Centers for Disease Control and Prevention/Ifakara Health Research and Development Centre Malaria Programme in Tanzania, Dar-es-Salaam, United Republic of Tanzania, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³University Medical Centre Rotterdam, Rotterdam, The Netherlands, ⁴Ifakara Health Research and Development Centre, Dar-es-Salaam, United Republic of Tanzania

9:30 a.m.

677

CHANGES IN PEDIATRIC BLOOD TRANSFUSION STATISTICS AS A POSSIBLE INDICATOR OF MALARIA CONTROL

Philip Thuma, Janneke van Dijk, Sungano Mharakurwa

Malaria Institute at Macha, Choma, Zambia

Symposium 111**Efficacy Models in New Antiparasitic Drug Discovery**

Salon II

Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.

The morbidity and mortality attributable to tropical diseases, particularly the parasitic infections including malaria, leishmaniasis and trypanosomiasis (new and old world), are staggering. Recent trends indicate rapid emergence of drug-resistant and more virulent strains of the parasites to further intensify the problem. Continuous emergence of drug resistance not only necessitates a high pace of new drug discovery, but also warrants building up of an armamentarium of the drugs with proven clinical efficacy against the current drug-resistant cases of these parasitic infections. Efficacy models are integral parts of new drug discovery, which help in identification of new leads and selection of the compounds for development. Recently, significant advances have been made in assay technologies for *in vitro* and *in vivo* antiparasitic efficacy evaluation. These advances may be useful in evaluation of large compound libraries and high throughput screening. This symposium would discuss recent developments in technologies and applications of efficacy models in new antiparasitic drug discovery.

CHAIR

Babu L. Tekwani

University of Mississippi, University, MS, United States

8 a.m.

KEYNOTE: APPLICATION OF TRANSFECTION TECHNOLOGY FOR EFFICACY EVALUATION IN TROPICAL PARASITIC DISEASES

Dennis E. Kyle

University of South Florida, Tampa, FL, United States

8:20 a.m.**IN VITRO EFFICACY MODELS FOR MALARIA AND LEISHMANIASIS**

Babu L. Tekwani

*University of Mississippi, University, MS, United States***8:40 a.m.****IN VITRO AND IN VIVO EFFICACY MODELS FOR TRYPANOSOMIASIS**

Reto Brun

*Swiss Tropical Institute, Basel, Switzerland***9 a.m.****HIGH THROUGH SCREENING TECHNOLOGIES FOR NEW ANTI-MALARIAL DRUG DISCOVERY**

Mary Lynn Baniecki

*Harvard Medical School, Boston, MA, United States***9:20 a.m.****SCREENING NATURAL PRODUCTS AGAINST NEGLECTED INFECTIOUS DISEASE PATHOGENS**

Simon L. Croft

*Drugs for Neglected Diseases Initiative, Geneva, Switzerland***Symposium 112****Using Population-Based Surveillance Systems in Developing Countries as Platforms to Assess Public Health Interventions***Salon KL***Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.**

CDC's International Emerging Infections Programs (IEIP) are now operational in Thailand, Kenya, Guatemala, China and Egypt. A core component of IEIPs is population-based surveillance which can be a powerful tool to assess the need for and evaluate important public health interventions such as vaccines. This symposium will probe two examples, rotavirus in Kenya and pneumococcal disease in Thailand, both of which are considering vaccine trials or demonstration projects to reduce disease burden.

CHAIR

Sonja J. Olsen

*Centers for Disease Control and Prevention, Atlanta, GA, United States***8 a.m.****INTRODUCTION**

Sonja J. Olsen

*Centers for Disease Control and Prevention, Atlanta, GA, United States***8:10 a.m.****ESTABLISHING A POPULATION-BASED SURVEILLANCE SYSTEM FOR PNEUMONIA, DIARRHEA, FEVER AND JAUNDICE IN KENYA**

Robert Breiman

*Centers for Disease Control and Prevention, Nairobi, Kenya***8:30 a.m.****ROTAVIRUS AND NOROVIRUS EPIDEMIOLOGY AND THE EVALUATION OF ROTAVIRUS VACCINE**

Marc-Alain Widdowson

*Centers for Disease Control and Prevention, Atlanta, GA, United States***8:50 a.m.****ESTABLISHING A POPULATION-BASED SURVEILLANCE SYSTEM FOR PNEUMONIA AND ITS ETIOLOGIES IN RURAL THAILAND**

Kip Baggett

*Centers for Disease Control and Prevention, Nonthaburi, Thailand***9:10 a.m.****INVASIVE PNEUMOCOCCAL DISEASE AND PNEUMONIA IN RURAL THAILAND: CAN PREVENTION BE ACHIEVED THROUGH VACCINATION**

Matthew Moore

*Centers for Disease Control and Prevention, Atlanta, GA, United States***Symposium 113****Update on Visceral Leishmaniasis (VL) and Post Kala-Azar Dermal Leishmaniasis (PKDL) Treatment in India***Liberty AB***Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.**

This symposium will explore the recent development in the treatment of kala-azar and PKDL with sodium antimony gluconate (SAG), amphotericin B, ambisome, miltefosine and paromomycin. It will cover methods to minimize toxicity and improving treatment outcome.

CHAIR

Chandreshwar Prasad Thakur

*Balaji Utthan Sansthan, Patna, India***MODERATOR**

Philippe Desjeux

*Institute for OneWorld Health, San Francisco, CA, United States***8 a.m.****AMPHOTERICIN B IN THE TREATMENT OF KALA-AZAR AND PKDL**

Chandreshwar Prasad Thakur

*Balaji Utthan Sansthan, Patna, Bihar, India***8:25 a.m.****MILTEFOSINE IN THE TREATMENT OF KALA-AZAR AND PKDL**

Sujit Kumar Bhattacharya

*Indian Council of Medical Research, New Delhi, India***8:50 a.m.****PAROMOMYCIN IN THE TREATMENT OF KALA-AZAR AND PKDL**

Prabhat Kumar Sinha

Rajendra Memorial Research Institute of Medical Sciences, Patna, India

9:15 a.m.**SAG IN THE TREATMENT OF KALA-AZAR AND PKDL**

Shyam Sundar

*Institute of Medical Sciences, Varanasi, India***Symposium 114**

Intermittent Preventive Treatment of Malaria in Children

*Liberty C***Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.**

Studies undertaken in Senegal and in Mali have shown that administration of an effective antimalarial to children under the age of five years on a limited number of occasions during the peak period of malaria transmission is highly effective at preventing malaria. However, unlike the situation for infants, there is no easy means of distribution of antimalarials to children beyond the age at which vaccinations are given. In this symposium, studies will be reported which have explored different approaches to the delivery of intermittent preventive antimalarial treatment (IPT) to older children. In Senegal and in Ghana, community volunteers have been employed to administer IPT and the advantages and disadvantages of this approach are explored. In The Gambia, a randomized trial has been undertaken which compared delivery of IPT by village health workers with delivery by vaccination teams. In Uganda, a randomized trial has been conducted of delivery of IPT at schools. The symposium will conclude with a discussion of the next steps needed to evaluate IPT in children as a potentially valuable malaria control tool.

CHAIR

Brian M. Greenwood

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

Alassane Dicko

*University of Bamako, Bamako, Mali***8 a.m.****INTRODUCTION**

Brian Greenwood

*London School of Hygiene and Tropical Medicine, London, United Kingdom***8:10 a.m.****PARTICIPATION OF COMMUNITY VOLUNTEERS IN THE ADMINISTRATION OF IPT IN RURAL AREAS IN SENEGAL**

Badara Cisse

*University of Dakar, Dakar, Senegal***8:25 a.m.****A COMPARISON OF TWO APPROACHES TO THE DELIVERY OF IPT IN CHILDREN IN GHANA**

Margaret Kweku

*Ministry of Health, Hohoe, Ghana***8:40 a.m.****A RANDOMIZED TRIAL OF DELIVERY OF IPT TO GAMBIAN CHILDREN BY VILLAGE HEALTH WORKERS OR VACCINATION TEAMS**

Kalifa A. Bojang

*MRC Laboratories, Banjul, Gambia***8:55 a.m.****A RANDOMIZED TRIAL OF IPT IN SCHOOLCHILDREN IN UGANDA**

Sian Clarke

*London School of Hygiene and Tropical Medicine, London, United Kingdom***9:10 a.m.****NEXT STEPS**

Brian Greenwood

*London School of Hygiene and Tropical Medicine, London, United Kingdom***9:25 a.m.****DISCUSSION****Scientific Session 115**

Pneumonia and Respiratory Infections

*Franklin 2***Wednesday, November 7, 2007****8 a.m. - 9:45 a.m.****CHAIR**

W. Abdullah Brooks

International Center for Diarrhoeal Disease Research, B: Centre for Health and Population Research, Dhaka, Bangladesh

Keith Klugman

*Emory University, Atlanta, GA, United States***8 a.m.****678**

A RANDOMIZED TRIAL OF AMBULATORY SHORT COURSE HIGH DOSE ORAL AMOXICILLIN THERAPY IN THE TREATMENT OF SEVERE PNEUMONIA IN CHILDREN

Tabish Hazir¹, **LeAnne M. Fox**², Yasir Bin Nisar¹, Matthew P. Fox², Yusra Pervaiz Ashraf¹, William B. MacLeod², Afroze Ramzan³, Sajid Maqbool⁴, Tahir Masood⁴, Waqar Hussain⁵, Asifa Murtaza⁶, Nadeem Khawar⁷, Parveen Tariq⁸, Rai Asghar⁸, Donald M. Thea², Shamim A. Qazi⁹

¹ARI Research Cell, Children's Hospital, Pakistan Institute of Medical Sciences, Islamabad, Pakistan, ²Center for International Health and Development, Boston University School of Public Health, Boston, MA, United States, ³National Institute of Child Health, Karachi, Pakistan, ⁴The Children's Hospital, Lahore, Pakistan, ⁵Sheikh Zayed Hospital, Lahore, Pakistan, ⁶Federal Government Services Hospital, Islamabad, Pakistan, ⁷Khyber Medical College, Peshawar, Pakistan, ⁸Rawalpindi Medical College, Rawalpindi, Pakistan, ⁹The Department of Child and Adolescent Health and Development, The World Health Organization, Geneva, Switzerland

8:15 a.m.

679

EVALUATION OF A MICROCOLONY DETECTION METHOD AND PHAGE ASSAY FOR RAPID DETECTION OF MYCOBACTERIUM TUBERCULOSIS IN SPUTUM SAMPLES

Seema Irfan

The Aga Khan University Hospital, Karachi, Pakistan

8:30 a.m.

680

TUBERCULIN SKIN TESTING HAS LIMITED DIAGNOSTIC UTILITY FOR ADULT PULMONARY TUBERCULOSIS IN ENDEMIC REGIONS

Antonino G. Curatola¹, Gurjinder Sandhu², Robert H. Gilman³, Giselle Soto⁴, Antonio Bernabe¹, Mayuko Saito³, Tom Pelly⁴, Yvonne Ahn⁴, Marco Tovar¹, Richard Rodriguez⁵, A. Roderick Escombe², Carlton A. Evans³

¹Faculty of Science and Philosophy, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Wellcome Centre for Clinical Tropical Medicine, Imperial College London, London, United Kingdom, ³Johns Hopkins School University Bloomberg, School of Public Health, Baltimore, MD, United States, ⁴Asociación Benéfica PRISMA, Lima, Peru, ⁵Hospital María Auxiliadora, Lima, Peru

8:45 a.m.

681

FATAL INFLUENZA A/H5N1 INFECTION IN A 14-YEAR-OLD MALE PRESENTING WITH FEVER AND DIARRHEA

Dewi Lokida¹, Endang Sedyaningsih², Herman Kosasih³, Dyah Irawati¹, Shannon Putnam³, Alexander Klimov⁴, Patrick Blair³, Timothy Burgess³

¹Tangerang Hospital, Tangerang, Indonesia, ²National Institute of Health Research and Development, Jakarta, Indonesia, ³Naval Medical Research Unit 2, Jakarta, Indonesia, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

9 a.m.

682

H5N1 OUTBREAK IN BURKINA FASO

Zekiba Tarnagda¹, Adele Kam¹, Marc Christian Tahita¹, Issaka Yougbare¹, Mariette M.F. Ducatez², Claude P. Muller², Jean-Bosco Ouedraogo¹

¹IRSS, Bobo-Dioulasso, Burkina Faso, ²LNS, Luxembourg, Luxembourg

9:15 a.m.

683

PREPAREDNESS FOR PANDEMIC INFLUENZA IN A DEVELOPING COUNTRY: KNOWLEDGE, ATTITUDES AND PRACTICES CONCERNING INFLUENZA CONTROL IN PERUVIAN NAVY HEALTH CARE FACILITIES

Roger V. Araujo Castillo¹, Daphne Ponce¹, Carmen C. Mundaca¹, Emilia Saldarriaga², Manuel Moran², Miguel Fernandez², David L. Blazes¹

¹Naval Medical Research Center Detachment, Lima, Peru, ²Centro Medico Naval, Lima, Peru

9:30 a.m.

684

BURDEN AND EPIDEMIOLOGY OF INFLUENZA-LIKE ILLNESS IN A PEDIATRIC COHORT IN NICARAGUA

Aubree Gordon¹, Guillermina Kuan², Oscar Ortega³, Miguel Reyes², Saira Saborio⁴, Angel Balmaseda⁵, Eva Harris⁶

¹Division of Epidemiology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ²Socrates Flores Vivas Health Center, Managua, Nicaragua, ³Sustainable Sciences Institute, Managua, Nicaragua, ⁴Department of Virology, Centro Nacional de Diagnóstico y Referencia, Ministry of Health, Managua, Nicaragua, ⁵Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ⁶Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

Symposium 116**Poor Quality Antimalarials – Deaths, Detection and Developments**

Franklin 3/4

Wednesday, November 7, 2007 8 a.m. - 9:45 a.m.

The poor quality of much of the world's antimalarial drug supply is a neglected public health problem. Since 1999 there has been an epidemic of counterfeit oral artesunate in southeast Asia and most other antimalarials in use have been reported as counterfeit or substandard. This has resulted in deaths, loss of confidence in vital drugs and health systems and false reports of clinical resistance. Substandard and counterfeit drugs containing sub-therapeutic amounts of active ingredients are potentially important drivers of antimalarial drug resistance. There is increasing concern that fake artemisinin derivatives will become a major problem in Africa, reducing the beneficial public health impact of these crucial medicines. New methods for the rapid, inexpensive detection of poor quality antimalarials, as well as sophisticated, non-invasive, innovative methods for the identifying the ingredients of fakes and their forensic fingerprints, will also be presented.

CHAIR

Harparkash Kaur

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

Paul Newton

Mahosot Hospital, Vientiane, Lao People's Democratic Republic

Nicholas White

Wellcome Trust-Mahidol University-Oxford Tropical Medicine Research Programme, Bangkok, Thailand

8 a.m.

INTRODUCTION

Paul Newton

Mahosot Hospital, Vientiane, Lao People's Democratic Republic

Nicholas White

Wellcome Trust Mahidol University Oxford Tropical, Bangkok, Thailand

8:15 a.m.

SIMPLE, LOW-COST METHODS TO RAPIDLY IDENTIFY COUNTERFEIT DRUGS

Michael D. Green

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

Detailed Program

8:35 a.m.

USER-FRIENDLY COLOR TESTS TO SPOT CHECK ARTEMISININ DRUG CONTENT

Harparkash Kaur

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

8:55 a.m.

A NEW GENERATION OF RAPID AND SENSITIVE LABORATORY TECHNIQUES FOR ASSESSING DRUG QUALITY AND DETECTING COUNTERFEIT DRUGS: APPLICATIONS TO ANTIMALARIALS

Facundo M. Fernandez

Georgia Institute of Technology, Atlanta, GA, United States

9:15 a.m.

AN INVESTIGATION INTO THE SOURCE OF COUNTERFEIT ARTESUNATE

Aline Plançon-Lecadre

Interpol, Lyon, France

Paul Newton

Mahosot Hospital, Vientiane, Lao People's Democratic Republic

Exhibit Hall Open

Franklin Hall B

Wednesday, November 7, 2007 9:30 a.m. - 10:30 a.m.

Coffee Break

Franklin Hall B

Wednesday, November 7, 2007 9:45 a.m. - 10:15 a.m.

Poster Session C Set-Up

Franklin Hall B

Wednesday, November 7, 2007
9:45 a.m. - 10:15 a.m.

Poster Session C Viewing

Franklin Hall B

Wednesday, November 7, 2007
10:15 a.m. - Noon

Symposium 117

The Global Enteric Multi-Center Study (GEMS)

Salon AB

Wednesday, November 7, 2007 10:15 a.m. - Noon

WHO ranks diarrheal disease as the second most common cause of mortality among children younger than 60 months of age in developing countries, accounting for 18% of the 10.6 million children in this age group who die each year. With few exceptions, however, data from studies previously undertaken to determine the etiology of these illnesses suffer from some notable deficiencies. The shortcomings of available data include lack of a censused population to permit disease incidence to be calculated, lack of follow-up to detect sequelae (adverse clinical consequences), lack of appreciation of distinct presentations (non-bloody diarrhea, profuse watery diarrhea, dysentery and persistent diarrhea) and lack of detection or comprehensive analysis of new and emerging pathogens. Also, few studies measure the financial cost of a child's diarrheal illness to the family and to the health care system to derive a comprehensive picture of the burden of disease; economic cost is particularly neglected. But the most remarkable deficiency is the paucity of systematic studies in the countries that bear the highest childhood mortality rates, most of which reside in sub-Saharan Africa. Accordingly, to fill these knowledge gaps and generate critical information to allow establishment of priorities for disease control, including but not limited to enteric vaccine development, design of vaccines for broad coverage, formulation of effective public health policy and appropriate focus of emerging interventions, the Center for Vaccine Development of the University of Maryland School of Medicine, with funding from the Bill and Melinda Gates Foundation, has initiated with a consortium of partners a multi-site (Bangladesh, Gambia, India, Kenya, Mali, Mozambique, Pakistan) study of the etiology, burden and sequelae of diarrheal diseases from eight highly affected, heterogeneous, geographic and epidemiologic settings.

CHAIR

Myron M. Levine

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

10:15 a.m.

OVERVIEW OF GEMS

Myron M. Levine

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

10:30 a.m.

EPIDEMIOLOGIC AND CLINICAL ISSUES

Karen L. Kotloff

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

10:45 a.m.

MICROBIOLOGICAL ISSUES AND METHODS

James P. Nataro

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

11 a.m.

MANHICA, MOZAMBIQUE

Pedro L. Alonso

Centro de Investigaçao em Saude da Manhica, Manhica, Maputo, Mozambique

11:15 a.m.

BAMAKO, MALI

Samba O. Sow

Center for Vaccine Development-Mali, Bamako, Mali

11:30 a.m.

KISUMU, KENYA

Robert Breiman

Centers for Disease Control and Prevention - KEMRI Research Station, Kisumu, Kenya

11:45 a.m.

BASSE, THE GAMBIA

Richard A. Adegbola

MRC Laboratories, Banjul, Gambia

Symposium 118

Launching Careers In Tropical Disease Research: Progress Reports From Burroughs Wellcome Fund/ASTMH and Fogarty International Center IRDSA Fellows

Supported with funding from The Burroughs Wellcome Fund

Salon CD

Wednesday, November 7, 2007 10:15 a.m. - Noon

This session will highlight the work of several BWF/ASTMH and Fogarty International Center fellows who are focusing their work on global health problems in situ — doing excellent research on tropical diseases where they occur. Both of these highly competitive fellowship programs focus on training excellent generally U.S.-based researchers who are launching research careers that are expected to involve long-term research presence both abroad and at their home institutions in the States. This session will be followed by a lunchtime discussion of career issues faced by those who take on working in two countries (home and abroad).

CHAIR

Victoria McGovern

Burroughs Wellcome Fund, Research Triangle Park, NC, United States

Barbara Sina

Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

WORK CARRIED OUT UNDER THE FOGARTY PROGRAM'S SUPPORT

Regina LaRocque

Massachusetts General Hospital, Boston, MA, United States

10:50 a.m.

WORK CARRIED OUT UNDER THE FOGARTY PROGRAM'S SUPPORT

Mina Hosseinipour

University of North Carolina School of Medicine, Chapel Hill, NC, United States

11:25 a.m.

WORK CARRIED OUT UNDER THE BWF/ASTMH PROGRAM'S SUPPORT

Danny A. Milner

The Brigham & Women's Hospital, Boston, MA, United States

Symposium 119

The Development and Evaluation of Diagnostics for Tropical Diseases

Salon E

Wednesday, November 7, 2007 10:15 a.m. - Noon

This symposium is designed to review and update progress on the development and evaluation of diagnostics for selected tropical diseases. The speakers will describe work supported by the UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (WHO/TDR).

CHAIR

Rosanna W. Peeling

World Health Organization, Geneva, Switzerland

10:15 a.m.

DIAGNOSIS OF VISCERAL LEISHMANIASIS - WHERE ARE WE?

Shyam Sundar

Banaras Hindu University, Varanasi, India

10:40 a.m.

EVOLUTION OF DIAGNOSTICS ON HUMAN AFRICAN TRYPANOSOMIASIS, WITH SPECIAL EMPHASIS ON SLEEP-WAKE DISTURBANCES

Alain G. Buguet

Université Claude-Bernard Lyon I, Lyon, France

11:05 a.m.

UTILITY OF EXISTING DIAGNOSTIC TESTS FOR S. MANSONI AND S. HAEMATOBIIUM IN AREAS OF LOW INTENSITY TRANSMISSION

Diana M. Karanja

Kenya Medical Research Institute, Kisumu, Kenya

11:30 a.m.

EVALUATION OF ANTIGEN AND ANTIBODY DETECTIONS FOR DIAGNOSIS OF DENGUE VIRUS INFECTION

Sutee Yoksan

Mahidol University at Salaya, Bangkok, Thailand

Wednesday, November 7

Detailed Program

Scientific Session 120

Flavivirus V

Salon F

Wednesday, November 7, 2007

10:15 a.m. - Noon

CHAIR

Rebecca M. Robich

Harvard School of Public Health, Boston, MA, United States

Tom Solomon

University of Liverpool, Liverpool, United Kingdom

10:15 a.m.

685

CONUNDRUMS IN EVOLUTION OF JAPANESE ENCEPHALITIS VIRUS

Janet Shaw¹, Wipa Tangkunanond¹, Jennifer Collett¹, Allison German¹, Curtis G. Hayes², Patrick J. Blair³, Tom Solomon¹¹University of Liverpool, Liverpool, United Kingdom, ²Naval Medical Research Center, Silver Spring, MD, United States, ³Naval Medical Research Unit No 2, Jakarta Pusat, Indonesia

10:30 a.m.

686

DEFINITION OF THE MAJOR DETERMINANT RESPONSIBLE FOR NEUROVIULENCE OF JAPANESE ENCEPHALITIS VIRUS

Yoko Nukui, Shigeru Tajima, Chang kweng Lim, Reiko Nerome, Tomohiko Takasaki, Ichiro Kurane

Department of Virology I, National Institute of Infectious Diseases, Tokyo, Japan

10:45 a.m.

687

EFFECT OF PRE-EXISTING ANTI TICK BORNE ENCEPHALITIS VIRUS (TBE) IMMUNITY ON NEUTRALIZING ANTIBODY RESPONSE TO THE NOVEL, VERO CELL DERIVED INACTIVATED JAPANESE ENCEPHALITIS VIRUS (JEV) VACCINE IC51

Elisabeth Schuller¹, Christoph Klade¹, Christa Firbas², Karin Stiasny³, Franz X Heinz³, Pamela Rendli-Wagner⁴, Bernd Jilma², Erich Tauber¹¹Intercell AG, Vienna, Austria, ²Medical University Vienna, Clinical Pharmacology, Vienna, Austria, ³Institute for Virology, Medical University Vienna, Vienna, Austria, ⁴Medical University Vienna, Specific Prophylaxis and Tropical Medicine at Institute Pathophysiology, Vienna, Austria

11 a.m.

688

MIGRATION AND TRANSMISSION HISTORY OF ST. LOUIS ENCEPHALITIS VIRUS

Albert J. Auguste¹, Eleca J. Dunham², Oliver G. Pybus³, Edward C. Holmes², Christine V. Carrington¹¹University of the West Indies, St. Augustine, Trinidad and Tobago, ²Pennsylvania State University, State College, PA, United States, ³University of Oxford, Oxford, United Kingdom

11:15 a.m.

689

CHARACTERIZATION OF THE BARKEDIJI VIRUS, A NEW MOSQUITO-BORNE FLAVIVIRUS ISOLATED IN SENEGAL

Anne Dupressoir¹, Pablo M. de A Zanotto², Juliana Velasco de Castro Oliveira², Lang Girault¹, Magueye Ndiaye¹, Mireille Mondo¹, Amadou Alpha Sall¹¹Institut Pasteur Dakar, Dakar, Senegal, ²Laboratório de Evolução Molecular e Bioinformática, Sao Paulo, Brazil

(ACMCIP Abstract)

11:30 a.m.

690

CHIKUNGUNYA FEVER IN MAURITIUS, 2006

Sanjay Beesoon¹, Navaratnam Kotea¹, Andrew Spielman², Rebecca M. Robich²¹University of Mauritius, Moka, Mauritius, ²Harvard School of Public Health, Boston, MA, United States

11:45 a.m.

691

PATHOGENESIS OF CHIKUNGUNYA VIRUS INFECTION IN MICE

Sarah A. Ziegler, Liang Lu, Shu-Yuan Xiao, Robert B. Tesh
University of Texas Medical Branch, Galveston, TX, United States

Scientific Session 121

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Immunoparasitology II

Supported with funding from The Burroughs Wellcome Fund

Salon G

Wednesday, November 7, 2007 10:15 a.m. - Noon

CHAIR

Nadia Sam-Agudu

University of Minnesota, Farmington, MN, United States

Michael Walther

MRC Laboratories Fajara, Banjul, Gambia

10:15 a.m.

1071

A ROLE FOR IRF-7 IN REGULATING THE INTRACELLULAR FATE OF LEISHMANIA DONOVANI

Rebecca Phillips¹, M. Svensson², P. Kaye¹¹University of York and the Hull York Medical School, York, United Kingdom, ²Karolinska University Hospital, Stockholm, Sweden

10:30 a.m.

1072

PRESENCE OF AN IL-7R ∞ HI MEMORY CD8+ T CELL POPULATION DURING PERSISTENT TRYPANOSOMA CRUZI INFECTION

Lisa M. Bixby, Juan M. Bustamante, Matthew H. Collins, Rick L. Tarleton

University of Georgia, Athens, GA, United States

10:45 a.m.

692

CYTOKINE-ASSOCIATED NEUTROPHIL EXTRACELLULAR TRAPS AND ANTINUCLEAR ANTIBODIES IN PLASMODIUM FALCIPARUM INFECTED CHILDREN UNDER THE AGE OF SIXVirginia S. Baker¹, Godwin Imade², Norman Molta³, Sunday Pam², Michael Obadofin², Solomon Sagay², Daniel Egah², Daniel Iya², Bangmboye Afolabi⁴, Murray Baker⁵, Karen Ford⁶, Robert Ford⁶, Kenneth Roux¹, Thomas Keller¹¹Florida State University, Tallahassee, FL, United States, ²Jos University Teaching Hospital and Medical School, Jos, Nigeria, ³Jos University, Jos, Nigeria, ⁴Nigerian Ministry of Health/WHO, Abuja/Lagos, Nigeria, ⁵Jackson Hospital/Flowers Hospital, Marianna/Dothan, FL, United States, ⁶World Health Mission, Pittsburgh, PA, United States

11 a.m.

693

HIV INFECTION IMPAIRS OPSONIC PHAGOCYTOSIS OF PLASMODIUM FALCIPARUM-INFECTED ERYTHROCYTESStephen Rogerson¹, Liselle Fernandes², Francisca Yosaatmadja¹, Victor Mwapasa³, Malcolm Molyneux³, Eyob Tadesse⁴, Steven Meshnick⁵, Anthony Jaworowski²¹University of Melbourne, Parkville Victoria, Australia, ²Burnet Institute, Prahran, Victoria, Australia, ³Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ⁴College of Medicine, University of Malawi, Blantyre, Malawi, ⁵University of North Carolina, Chapel Hill, NC, United States

11:15 a.m.

695

TLR9 POLYMORPHISMS ARE ASSOCIATED WITH ALTERED IFN- γ LEVELS IN CHILDREN WITH CEREBRAL MALARIANadia A. Sam-Agudu¹, Jennifer Greene², Robert O. Opoka³, James W. Kazura², Michael J. Boivin⁴, Lisa A. Schimmenti¹, Peter A. Zimmerman², Chandy C. John¹¹University of Minnesota Children's Hospital-Fairview, Minneapolis, MN, United States, ²Case Western Reserve University, Cleveland, OH, United States, ³Makerere University, Kampala, Uganda, ⁴Michigan State University, East Lansing, MI, United States

11:30 a.m.

696

THE ROLE OF IMMUNOREGULATORY CELLS IN NATURAL IMMUNITY TO PLASMODIUM FALCIPARUMOlivia Finney¹, Michael Walther¹, Patrick Corran², David Conway¹, Eleanor Riley²¹MRC, Banjul, Gambia, ²London School of Hygiene and Tropical Medicine, London, United Kingdom**Scientific Session 122****Malaria - Epidemiology II**

Salon H

Wednesday, November 7, 2007 10:15 a.m. - Noon

CHAIR

Mônica da Silva-Nunes

Universidade de Sao Paulo, Sao Paulo - SP, Brazil

Philip Thuma

Malaria Institute at Macha, Choma, Zambia

10:15 a.m.

697

RISK FACTORS FOR MALARIA IN A RURAL AMAZONIAN COHORT (GRANADA, ACRE, BRAZIL)Mônica da Silva-Nunes¹, Natália T. Komatsu¹, Camilia Juncansen¹, Rosane R. D'Arcádia¹, Erika H. Hoffmann¹, Estéfano A. Souza¹, Natal S. Silva¹, Melissa S. Bastos², Sandra L. Moraes-Ávila², Rosely S. Malafronte², Kézia K. Scopel³, Érika M. Braga³, Carlos E. Cavasini⁴, Pascoal T. Muniz⁵, Irene S. Soares¹, Marcelo U. Ferreira¹¹Universidade de São Paulo, São Paulo - SP, Brazil, ²Instituto de Medicina Tropical, São Paulo - SP, Brazil, ³Universidade Federal de Minas Gerais, Belo Horizonte - MG, Brazil, ⁴Faculdade de Medicina de São José do Rio Preto, São José do Rio Preto - SP, Brazil, ⁵Universidade Federal do Acre, Rio Branco - AC, Brazil

10:30 a.m.

698

INDIVIDUAL AND HOUSEHOLD LEVEL FACTORS ASSOCIATED WITH MALARIA INCIDENCE IN NAZARETH, ETHIOPIAIngrid Peterson¹, Awash Teklehaimanot²¹New York University - Medical Parasitology, New York, NY, United States, ²Columbia University - Department of Epidemiology, New York, NY, United States

10:45 a.m.

699

MULTILEVEL ANALYSIS OF SOCIAL, ECOLOGICAL, AND BIOLOGICAL PREDICTORS OF POLYPARASITISM IN COASTAL KENYALia S. Florey¹, Melissa K. Van Dyke¹, Charles H. King², Eric M. Muchiri³, Peter L. Mungai⁴, Peter A. Zimmerman², Mark L. Wilson¹¹University of Michigan, Ann Arbor, MI, United States, ²Case Western Reserve University, Cleveland, OH, United States, ³Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya, ⁴Msambweni Field Station, Msambweni, Kenya

11 a.m.

700

INTEGRATING ONE OF THE NTDS WITH ONE OF THE BIG THREE. AN INTEGRATED MALARIA INDICATOR, PARASITE PREVALENCE, TRACHOMA INDICATOR, AND TRACHOMA PREVALENCE SURVEY IN AMHARA REGIONAL STATE, ETHIOPIA

Paul Emerson¹, Yeshewamebrat Ejigsemahu², Estifanos Biru², Patricia Graves¹, Jeremiah Ngondi¹, Asrat Genet³, Teshome Gebre², Tekola Endeshaw², Arylic Mosher¹, Frank Richards¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³Amhara Regional Health Bureau, Bahir Dar, Ethiopia

11:15 a.m.

701

SEVERE DISEASE ASSOCIATED WITH BOTH *P. FALCIPARUM* AND *P. VIVAX* INFECTION IN PAPUA, INDONESIA

E. Tjitra¹, N. M. Anstey², N. M. Warrikar³, E. Kenangalem⁴, D. A. Lampah⁵, M. Karyana¹, P. Sugiarto⁶, R. N. Price²

¹National Institute of Health Research and Development, Jakarta, Indonesia, ²Menzies School of Health Research, Darwin, Australia, ³International SOS, Timika, Indonesia, ⁴Timika, Indonesia, ⁵Dinas Kesehatan Kabupaten, Timika, Indonesia, ⁶International Health Program, Timika, Indonesia, ⁶Rumah Sakit Mitra Masyarakat, Timika, Indonesia

11:30 a.m.

702

BLOOD GROUP O PROTECTS AGAINST SEVERE *PLASMODIUM FALCIPARUM* MALARIA

J. Alexandra Rowe, Anne-Marie Deans

Institute of Immunology and Infection Research, University of Edinburgh, United Kingdom

11:45 a.m.

703

IMPACT OF MATERNAL MALARIA AND UNDER-NUTRITION ON INTRAUTERINE GROWTH RESTRICTION: A PROSPECTIVE COHORT STUDY IN DEMOCRATIC REPUBLIC OF CONGO

Sarah Landis¹, Victor Lokomba², Joseph Atibu², Cande Ananth³, Robert Ryder⁴, Katherine Hartmann⁵, John Thorp¹, Antoinette Tshetu², Steven Meshnick¹

¹University of North Carolina-Chapel Hill, Chapel Hill, NC, United States, ²University of North Carolina-DRC Project, Kinshasa, Democratic Republic of the Congo, ³University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School, New Brunswick, NJ, United States, ⁴Boston University School of Public Health, Boston, MA, United States, ⁵Vanderbilt University Medical Center, Nashville, TN, United States

Symposium 123

New Drugs/Drug Targets for Schistosomiasis

Salon II

Wednesday, November 7, 2007 10:15 a.m. - Noon

The control of schistosomiasis largely depends on the use of a single drug, praziquantel. This symposium is designed to review and update progress in the effort to develop new drugs for schistosomiasis. These will include an analysis of the use of artemisinins, investigations on the efficacy of simplified artemisinins, ozonides (trioxolanes), and the discussion of two high throughput screens of chemical libraries to identify new targets and lead compounds for drug development. The screens were directed against (1) whole parasites and (2) parasite antioxidant enzymes.

CHAIR

David L. Williams

Illinois State University, Normal, IL, United States

Philip T. LoVerde

Southwest Foundation for Biomedical Research, San Antonio, TX, United States

10:15 a.m.

NOVEL DRUGS FOR SCHISTOSOMIASIS: ESTABLISHMENT OF A MEDIUM-THROUGHPUT WHOLE-ORGANISM SCREEN AT UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO

Conor Caffrey

Sandler Center for Basic Research in Parasitic Diseases, San Francisco, CA, United States

10:45 a.m.

HIGH THROUGHPUT SCREEN OF A SMALL CHEMICAL LIBRARY FOR INHIBITORS OF SCHISTOSOME REDOX ENZYMES

Ahmed A. Sayed

Illinois State University, Normal, IL, United States

11:10 a.m.

UTILITY OF THE ARTEMISININS IN THE CHEMOTHERAPY OF SCHISTOSOMIASIS

Juerg Utzinger

Swiss Tropical Institute, Basel, Switzerland

11:25 a.m.

FROM THE ARTEMISININS TO THE OZONIDES (TRIOXOLANES): A MEDICINAL CHEMIST'S PERSPECTIVE

Jonathan L. Vennerstrom

University of Nebraska Medical Center, Omaha, NE, United States

11:35 a.m.

OZONIDES (TRIOXOLANES) AND OTHER PEROXIDES AS POTENTIAL THERAPEUTICS FOR SCHISTOSOMIASIS AND OTHER TREMATODE INFECTIONS

Jennifer Keiser

Swiss Tropical Institute, Basel, Switzerland

11:50 a.m.

NEW DRUGS FOR SCHISTOSOMIASIS AND OTHER TREMATODE-BORNE DISEASES: WHAT DID WE LEARN AND A WAY FORWARD

Marcel Tanner
Swiss Tropical Institute, Basel, Switzerland

Symposium 124

Foreign Militaries and International Public Health Surveillance: Untapped Resources?

Salon KL

Wednesday, November 7, 2007 10:15 a.m. - Noon

Foreign militaries may be an untapped resource for country-specific public health surveillance data and response capacity. Many track the health of both military populations and otherwise inaccessible civilian populations. Speakers will discuss advantages and drawbacks of better integrating militaries into international public health surveillance and response efforts, followed by a discussion.

CHAIR

J. Jeremy Sueker
DoD Global Emerging Infections Surveillance and Response System, Silver Spring, MD, United States

10:15 a.m.

PERSPECTIVES FROM WHO: CURRENT COLLABORATIONS, FUTURE POSSIBILITIES AND POLICY IMPLICATIONS

Matthew Lim
World Health Organization, Geneva, Switzerland

10:40 a.m.

ARGUMENTS FOR GREATER INTERNATIONAL COLLABORATION: OVERVIEW AND NATO PERSPECTIVES

Edita Stok
Chair, Joint Medical Committee, North Atlantic Treaty Organization, Brussels, Belgium

11 a.m.

CASE STUDY: THE EXPERIENCES OF THE ROYAL THAI ARMY IN BILATERAL AND INTERNATIONAL COLLABORATION

Jariyanart Gaywee
Armed Forces Research Institute of Medical Sciences - Royal Thai Army, Bangkok, Thailand

11:20 a.m.

REASONS FOR CAUTION: HISTORICAL INTERACTIONS AND CONTEMPORARY REALITIES

Trueman W. Sharp
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

11:40 a.m.

MODERATED PANEL DISCUSSION

Symposium 125

Strongyloidiasis: Recent Clinical and Immunologic Observations

Liberty AB

Wednesday, November 7, 2007 10:15 a.m. - Noon

Strongyloidiasis is among the most severe of the helminth infections, yet relatively little attention has been paid to this organism. This symposium will highlight recent developments on the burden of disease, recognition of a wider spectrum of disease including the importance of HTLV-1 in dissemination, the role of ivermectin in treatment and newer diagnostic tests. Finally, recent studies have highlighted the role of the host response in control of infection in animal models and human subjects.

CHAIR

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

Martin Montes
Universidad Peruana Cayetano Heredia, Lima, Peru

10:15 a.m.

THE BIOLOGY OF STRONGYLOIDES

Thomas J. Nolan
University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA, United States

10:30 a.m.

GLOBAL BURDEN OF DISEASE CAUSED BY STRONGYLOIDIASIS

Pablo Peñataro-Yori
Johns Hopkins University, Baltimore, MD, United States

10:45 a.m.

CLINICAL SPECTRUM AND TREATMENT OF STRONGYLOIDIASIS

Eduardo Gotuzzo
Universidad Peruana Cayetano Heredia, Lima, Peru

11:10 a.m.

UPDATE ON DIAGNOSIS OF STRONGYLOIDIASIS

J. Dick MacLean
McGill University Center for Tropical Disease, Montreal, QC, Canada

11:25 a.m.

IMMUNOLOGIC CONTROL OF INFECTION IN ANIMAL MODELS

David Abraham
Thomas Jefferson University, Philadelphia, PA, United States

Wednesday, November 7

Detailed Program

11:40 a.m.

IMMUNOLOGIC CONTROL OF INFECTION IN HUMAN SUBJECTS

Martin Montes

Instituto de Medicina Tropical 'Alexander von Humboldt, Lima, Peru

Symposium 126

Update from the Intermittent Preventive Treatment in Infants (IPTi) Consortium: Status of Policy Change and Program Implementation, and the Efficacy Sulfadoxine-Pyrimethamine (SP) and Other Antimalarial Drugs

Liberty C

Wednesday, November 7, 2007 10:15 a.m. - Noon

The symposium will provide an update on the progress of the IPTi Consortium. An update will be provided on the efficacy of IPTi with SP. Information will be presented regarding the applicability of IPT as a strategy in various African settings. Lessons learned will be discussed from the UNICEF pilot implementation experiences with IPTi in several countries in Africa. The status of the policy review process at WHO will be reviewed. New evidence regarding regimens other than sulfadoxine-pyrimethamine (SP) for use as IPTi will be shared.

CHAIR

Robert D. Newman

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

10:15 a.m.

UPDATE ON EFFICACY TRIALS OF IPTI WITH SULFADOXINE-PYRIMETHAMINE

Martin P. Grobusch

University of the Witwatersrand, Johannesburg, South Africa

10:35 a.m.

INTERMITTENT PREVENTIVE TREATMENT (IPT) FOR AFRICAN CHILDREN: WHERE AND HOW SHOULD IPT BE APPLIED?

Ilona Carneiro

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

10:55 a.m.

UPDATE ON THE ADOPTION OF INTERMITTENT PREVENTIVE TREATMENT IN INFANTS (IPTI) WITH SP INTO POLICY IN SUB-SAHARAN AFRICA

Andrea Egan

Hospital Clinic - University of Barcelona, Barcelona, Spain

11:15 a.m.

UNICEF PILOT IMPLEMENTATION OF INTERMITTENT PREVENTIVE TREATMENT IN INFANTS (IPTI)

Alexandra de Sousa

UNICEF, New York, NY, United States

11:35 a.m.

INTERMITTENT PREVENTIVE TREATMENT IN INFANTS (IPTI) WITH AMODIAQUINE/ARTESUNATE, SP/ARTESUNATE OR CHLORPROGUANIL-DAPSONE IN WESTERN KENYA: A RANDOMIZED PLACEBO-CONTROLLED, DOUBLE-BLIND TRIAL

Frank O. Odhiambo

Centers for Disease Control and Prevention-KEMRI, Kisumu, Kenya

Symposium 126A

Adjuvants for a New Generation of Vaccines

Franklin 1

Wednesday, November 7, 2007 10:15 a.m. - Noon

This symposium is designed to address the need for adjuvants for a new generation of vaccines against neglected diseases. Topics to be discussed will include TLR agonists as adjuvants, the importance of formulation and accessibility of adjuvants for vaccine development outside of industry.

CHAIR

Steven G. Reed

Infectious Disease Research Institute, Seattle, WA, United States

10:15 a.m.

INTRODUCTION

Steven G. Reed

Infectious Disease Research Institute, Seattle, WA, United States

10:40 a.m.

OVERVIEW OF ADJUVANTS AND INTRODUCTION OF ADJUNET

Steven G. Reed

Infectious Disease Research Institute, Seattle, WA, United States

11 a.m.

ADJUVANT FORMULATIONS AND PRACTICAL ISSUES

Martin Friede

World Health Organization, Geneva, Switzerland

11:20 a.m.

TLR AGONISTS AS VACCINE ADJUVANTS

Robert Seder

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

11:40 a.m.

ADJUVANTS FOR MALARIA VACCINES

Allan Saul

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Symposium 127

Bridging Pathogenesis and Pathology in Malaria: Addressing Drug Resistance and Tolerance in Malaria Parasites

Supported with funding from The Burroughs Wellcome Fund

Franklin 2

Wednesday, November 7, 2007 10:15 a.m. - Noon

Linking parasite biology and genomics to drug therapies remains a frontier in malaria. This has created great need for broad, integrated perspectives to understand the complexities of pathogenic mechanisms, and drug treatment modalities. This symposium will bring together recent studies in malaria treatment regimens, drugs and their targets to integrate basic research approaches with clinical disease and the development of therapeutics.

CHAIR

Kasturi Haldar

Northwestern University, Chicago, IL, United States

Akhil B. Vaidya

Drexel University College of Medicine, Philadelphia, United States

10:15 a.m.

GENETIC DIVERSITY AND DRUG-RESISTANT MALARIA

Christopher V. Plowe

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

10:40 a.m.

TARGETING MITOCHONDRIAL FUNCTION IN DRUG DEVELOPMENT AND TOLERANCE

Akhil B. Vaidya

Drexel University College of Medicine, Philadelphia, United States

11:05 a.m.

COMBINING HOST TARGETED THERAPIES IN CONJUNCTION WITH CONVENTIONAL ANTI-MALARIALS

Kasturi Haldar

Northwestern University, Chicago, IL, United States

11:30 a.m.

TAFENOQUINE IN TREATMENT OF *P. FALCIPARUM* AND *P. VIVAX* MALARIA

Wilbur K. Milhous

Walter Reed Army Institute of Research, Silver Spring, United States

Scientific Session 128

HIV in the Tropics

Franklin 3/4

Wednesday, November 7, 2007 10:15 a.m. - Noon

CHAIR

Davidson H. Hamer

Boston University School of Public Health, Boston, MA, United States

Jean B. Nachega

Johns Hopkins University, Baltimore, MD, United States

10:15 a.m.

704

THE COSTS OF HIV TREATMENT IN DEVELOPING COUNTRIES: EFFECTS OF PROGRAM MATURITY, CONTEXT AND DESIGN ON TOTAL AND COMPONENT COSTS

Scott Filler, The ART Costing Study Team

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

10:30 a.m.

705

DRAMATIC REDUCTIONS IN HIV RNA AMONG HIV-INFECTED CHILDREN WITH ACUTE MEASLES IN UGANDA

Jane Achan¹, Theodore D. Ruel², Anne F. Gasasira¹, Edwin D. Charlebois², Philip J. Rosenthal², Grant Dorsey², Moses R. Kamya¹, Adeodata Kekitiinwa³, Joseph Wong², Diane Havlir²

¹Makerere University, Kampala, Uganda, ²University of California at San Francisco, San Francisco, CA, United States, ³Baylor College of Medicine, Pediatric Infectious Disease Clinic, Mulago Hospital, Kampala, Uganda

10:45 a.m.

706

HIV-1 INFECTION IN PATIENTS REFERRED FOR MALARIA BLOOD SMEARS AT UGANDAN GOVERNMENT HEALTH CLINICS

Lisa M. Bebell¹, Anne Gasasira², Moses Kiggundu², Christian Dokomajilar³, Moses R. Kamya², Edwin Charlebois³, Diane Havlir³, Philip Rosenthal³, Grant Dorsey³

¹Columbia University College of Physicians and Surgeons, New York, NY, United States, ²Makerere University Medical School, Kampala, Uganda, ³University of California, San Francisco, San Francisco, CA, United States

11 a.m.

707

HEMATOLOGICAL AND INFLAMMATORY MEDIATOR ANALYSES IN KENYAN CHILDREN WITH *PLASMODIUM FALCIPARUM* AND HIV-1 CO-INFECTION

Gregory Davenport¹, Richard Otieno², Collins Ouma², James Hittner³, Tom Were², Yamo Ouma², Amos K'Ogal², John Vulule⁴, John Michael Ong'echa², Gordon Awandare¹, Douglas Perkins¹

¹University of Pittsburgh, Pittsburgh, PA, United States, ²University of Pittsburgh/KEMRI, Kisumu, Kenya, ³College of Charleston, Charleston, SC, United States, ⁴KEMRI, Kisumu, Kenya

(ACMCIP Abstract)

11:15 a.m.

708

CLINICAL MENTORING: EFFECTIVE AND RAPID TOOL IMPROVES CLINICAL CARE SKILLS FOR TB/HIV IN DEVELOPING COUNTRIES

Mario Onagan¹, Larisa Bomlitz², Katie Graves-Abe², Marie Charles²

¹Family Health International, Research Triangle Park, NC, United States,

²International Center for Equal Healthcare Access, New York, NY, United States

11:30 a.m.

709

IMPACT OF *SPIRULINA PLATENSIS* SUPPLEMENTATION ON GENERAL HEALTH STATUS OF HIV INFECTED PEOPLE IN BURKINA FASO

Zekiba Tarnagda¹, Issaka Yougbare¹, Aboubacar Siribie¹, Augustin N. Zeba¹, Daouda Mare², Zourata Lompo³, Zourata Lompo⁴, Jean Baptiste Nikiema⁴, Jean-Bosco Ouedraogo¹

¹IRSS, Bobo-Dioulasso, Burkina Faso, ²REVS+, Bobo-Dioulasso, Burkina Faso,

³Universite de Ouagadougou, Bobo-Dioulasso, Burkina Faso, ⁴Universite de Ouagadougou, Ouagadougou, Burkina Faso

11:45 a.m.

710

CO-INFECTION OF CUTANEOUS LEISHMANIASIS AND HIV IN MALI

Ousmane Faye¹, Seydou Doumbia², Pierre Traore³, Coulibaly Karim³, A. Dicko³, Hawa Sagara³, Hawa Ndiaye³, **Somita Keita**³

¹National Center for Disease Control, CNAM/Intitut Marchoux, Bamako,

Mali, ²Malaria Research and Training Center, Bamako, Mali, ³National Center for Disease Control, Intitut Marchoux, Bamako, Mali

Exhibit Hall Open

Franklin Hall B

Wednesday, November 7, 2007 Noon - 2:30 p.m.

Poster Session C/Light Lunch (#711 – 933)

Franklin Hall B

Wednesday, November 7, 2007

Noon - 1:30 p.m.

Clinical Tropical Medicine

711

REPRODUCTIVE TRACT INFECTIONS (RTI) IN FEMALE SLUM POPULATION MUKURU, NAIROBI, KENYA

Marian Bartkovjak

Trnava University, Bratislava, Slovakia

712

CONGENITAL AND NEONATAL MALARIA IN A TERTIARY REFERENCE HOSPITAL IN MALI

Mariam Sylla¹, Dicko-Traore Fatoumata¹, Antoine Dara², Souleymane Dama², Kalirou Traore¹, Pierre Togo¹, Seydou Traore¹, Sibiry Sissoko², Belco Poudiougo², Mamadou M. Keita¹, Ogobara K. Doumbo², Abdoulaye A. Djimde²

¹Service de Pediatrie, Hopital Gabriel Toure, Bamako, Mali, ²University of Bamako, Bamako, Mali

713

THE ECOLOGY AND BIOGEOGRAPHY OF MELIOIDOSIS IN PAPUA NEW GUINEA

Wayne Melrose¹, Anthony Baker¹, Kristy Marshall¹, Jeffrey Warner¹, Gabriel Padilla¹, Warren Shipton²

¹James Cook University, Townsville, Australia, ²Mission College, Muak Lek, Saraburi, Thailand

714

EFFICACY OF SINGLE DOSE LEVOFLOXACIN FOR TREATMENT OF ACUTE LEPTOSPIROSIS IN A HAMSTER MODEL

Matthew Griffith, Suzanne McCall, Duane Hospenthal, **Clinton Murray**

Brooke Army Medical Center, Ft. Sam Houston, TX, United States

715

ANTIMICROBIAL SUSCEPTIBILITY OF CLINICAL *LEPTOSPIRA* ISOLATES

Matthew Griffith¹, Miriam Beckius¹, Guillermo Pimentel², Roseanne Ressler¹, Duane Hospenthal¹, **Clinton Murray**¹

¹Brooke Army Medical Center, Ft. Sam Houston, TX, United States, ²U.S. Naval Medical Research Unit #3, Cairo, Egypt

716

EFFECTS OF A HIGH FAT MEAL ON THE BIOAVAILABILITY OF THE FIXED-DOSE COMBINATION OF AMODIAQUINE AND ARTESUNATE (ASAQ) IN HEALTHY SUBJECTS

Jerome Barre¹, Eric Lesauvage², Carole Thang², Brigitte Charron³, Valerie Lameyre³

¹Centre Hospitalier Intercommunal, Creteil, France, ²mediscis, Lagord, France, ³sanofi-aventis, Paris, France

717

A MULTINATIONAL, RANDOMIZED COMPARATIVE STUDY TO ASSESS THE EFFICACY AND TOLERABILITY OF A FIXED DOSE COMBINATION OF ARTESUNATE PLUS AMODIAQUINE ONCE OR TWICE DAILY VERSUS A FIXED DOSE COMBINATION OF ARTEMETHER PLUS LUMEFANTRINE FOR UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA

Jean-Louis Ndiaye¹, Babacar Faye¹, Oumar Gaye¹, Albert Same-Ekobo², Vicky Ama-Moor², Thomas Kuate², Philippe Bresseur³, Patrice Agnamey⁴, Milijoana Randrianarivelosia⁵, Arsene Ratsimbaoa⁵, Laurence Randrianasolo⁵, Issaka Sagara⁶, Aminata Traore⁶, Yaya Dicko⁶, Brigitte Charron⁷, Valerie Lameyre⁷

¹University Cheikh Anta Diop, Dakar, Senegal, ²FMSBICHU, Yaounde, Cameroon, ³IRD, Dakar, Senegal, ⁴CHU, Amiens, France, ⁵institut Pasteur de Madagascar, Antananarivo, Madagascar, ⁶MRTC, Bamako, Mali, ⁷Sanofi-Aventis, Paris, France

718

DEPLOYMENT OF ARTEMETHER LUMEFANTRINE (AL) AT COMMUNITY LEVEL AND ITS IMPACT ON MALARIA SPECIFIC DEATH RATE DURING AN EPIDEMIC YEAR**A. Getachew**¹, A. Desta¹, H. Lemma¹, E. Fottrell², Tigray Malaria Study Group³¹Tigray Health Bureau, Makale, Ethiopia, ²Department of Health and Clinical Medicine, Umea University, Umea, Sweden, ³G. Barnabas, A. Bianchi, A. Bosman, P. Byass, G. Costanzo, P. Ibarra de Palacios, N. Jude, A. Morrone, L. Toma, Ethiopia

719

CLINICAL IMPACT OF ENHANCED AMPLIFIED MYCOBACTERIUM TUBERCULOSIS DIRECT TEST (E-MTD) FOR RAPID IDENTIFICATION OF MYCOBACTERIUM TUBERCULOSIS ON RESPIRATORY SAMPLES**George M. Varghese**, George Alangaden, Hussain Salimnia, Tammy S. Lundstrom, P. H. Chandrasekar

Wayne State University, Detroit, MI, United States

720

INTEGRATION OF NEGLECTED DISEASE PROGRAMS IN TOGO: EVALUATION OF A PILOT PROJECT**Jennifer R. Verani**¹, Gabriel A. Anthony², Yao K. Sodahlon³, Els Mathieu¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Ministry of Health, Lome, Togo, ³Mectizan Donation Program, Decatur, GA, United States

721

THE U.S. EPA'S MULTIDISCIPLINARY APPROACH TO EXAMINING THE LINKS BETWEEN BIODIVERSITY AND HUMAN HEALTH**Montira Pongsiri**

U.S. Environmental Protection Agency, Washington, DC, United States

722

PREVALENCE OF BURULI ULCER CASES IN THE HEALTH DISTRICT OF AKONOLINGA, CAMEROON: A CROSS SECTIONAL SURVEY USING CENTRIC SYSTEMATIC AREA SAMPLING**Klaudia Porten**¹, Karen Sailor², Eric Comte³, Adelaide Njikap⁴, Frank Doerner³, Agnes Sobry⁵, Francois Sihom⁶, Abanda Mey'a⁶, Mark Myatt⁷, Sarah Eyangoh⁸, Rebecca Grais⁹¹Epicentre, Geneva, Switzerland, ²MSF, Akonolinga, Switzerland, ³MSF, Geneva, Switzerland, ⁴MSF, Akonolinga, Cameroon, ⁵MSF, Yaounde, Cameroon, ⁶District de Santé, Akonolinga, Cameroon, ⁷Institute of Ophthalmology, London, United Kingdom, ⁸Centre Pasteur, Yaounde, Cameroon, ⁹Epicentre, Paris, France

723

THE EFFECTIVENESS OF AN OUTBREAK RESPONSE COURSE IN THE AMERICAS**Juan Antonio Gálvez-Buccollini Abanto**

U.S. Naval Medical Research Center Detachment, Callao, Peru

724

FETAL TOXOPLASMOSIS: OUTCOME AND MANAGEMENT OF PREGNANCY IN 193 ROMANIAN FEMALE SURVEYS**Lidia E. Lazar**

University of Medicine and Pharmacy, Bucharest, Romania

725

RIFT VALLEY FEVER IN A MALARIA EPIDEMIC-PRONE AREA, IJARA DISTRICT, KENYA, JANUARY 2007**Francesco Grandesso**¹, Ole Wichmann², Mercedes Tatay³, Northan Hurtado³, Richard Lepec¹, Vincent Brown¹¹Epicentre, Paris, France, ²German Field Epidemiology Training Programme, Berlin, Germany, ³MSF, Paris, France

726

COMPLIANCE TO ARTESUNATE - AMODIAQUINE COMBINATION FOR THE TREATMENT OF UNCOMPLICATED MALARIA IN THE MIDDLE BELT OF DISTRICT OF GHANA**Kwaku P. Asante**¹, Ruth Owusu-Ofori¹, David K. Dosoo¹, Seeba Amengo-Eteego¹, Elizabeth Awini², Seth Owusu-Agyei¹¹Kintampo Health Research Centre, Ghana Health Service, Brong Ahafo Region, Ghana, ²Dodowa Health Research Centre, Ghana Health Service, Greater Accra Region, Ghana

727

LONG LASTING HUMORAL AND CELLULAR RESPONSES TO PLASMODIUM FALCIPARUM MEROZOITE SURFACE PROTEIN-1 IN THE LOW-TRANSMISSION AMAZON REGION OF PERU CORRELATE WITH LONG-TERM CLINICAL PROTECTION**Eva Clark**, Claudia J. Silva, Jean Hernandez, OraLee H. Branch
University of Alabama at Birmingham, Birmingham, AL, United States

(ACMCIP Abstract)

728

SELF-EVALUATION OF VSS, A SYNDROMIC SURVEILLANCE SYSTEM FOR OUTBREAK DETECTION IN PERU, A DEVELOPING COUNTRY**Giselle Soto**¹, Carmen C. Mundaca¹, Cesar V. Munayco², Jose Bolarte², Roger V. Araujo-Castillo¹, Luis Suarez-Ognio², David Blazes¹¹Naval Medical Research Center Detachment, Lima, Peru, ²Dirección General de Epidemiología, Lima, Peru

729

URBAN FARMING AND RISK FACTORS FOR SCHISTOSOMA MANSONI, HOOKWORM AND MALARIA IN WESTERN CÔTE D'IVOIRE**Barbara Matthys**¹, Eliézer K. N'Goran², Penelope Vounatsou¹, Guéladio Cissé³, Andres B. Tschannen³, Marcel Tanner¹, Jürg Utzinger¹¹Swiss Tropical Institute, Basel, Switzerland, ²Université d'Abidjan-Cocody, Abidjan, Cote d'Ivoire, ³Centre Suisse de Recherches Scientifiques, Abidjan, Cote d'Ivoire

730

INACTIVATION OF CHIKUNGUNYA VIRUS IN PLASMA AND PLATELETS USING THE INTERCEPT BLOOD SYSTEML. Sawyer, A. Sampson-Johannes, J. Kinsey, K. Tsetsarkin, D. L. Vanlandingham, **S. Higgs***University of Texas Medical Branch, Galveston, TX, United States*

731

SAFETY AND EFFICACY OF SILYMARIN ON PATIENTS WITH ACUTE HEPATITIS: A RANDOMIZED, CONTROLLED TRIAL**Samer El-Kamary**¹, Michelle Shardell¹, Mohamed Metwally², Gamal Esmat³, Nabil Mikhail⁴, Mohamed Hashem¹, Mohamed Abdelhamid⁵, G. Thomas Strickland¹¹University of Maryland School of Medicine, Baltimore, MD, United States,²Benha University, Benha, Egypt, ³Cairo University, Cairo, Egypt, ⁴Assiut University, Assiut, Egypt, ⁵Minia University, Minia, Egypt

732

DROUGHT WAS A CONSTANT FACTOR IN THE INITIATION OF LARGE EPIDEMICS OF LOUSE-BORNE TYPHUS**Rodolfo Acuna-Soto**¹, David W. Stahle², Matthew D. Therrell³, Jose Villanueva Diaz⁴¹Universidad Nacional Autonoma de Mexico, Ciudad de Mexico, Mexico,²Department of Geosciences, University of Arkansas, Fayetteville, AR, United States,³Department of Environmental Sciences, University of Virginia,Charlottesville, VA, United States, ⁴Instituto Nacional de Investigaciones

Forestales Agrícolas y Pecuarias, Gomez Palacio, Durango, Mexico

733

ASSESSMENT OF CLINICAL TROPICAL MEDICINE COMPETENCY AMONG U.S.-TRAINED MEDICAL STUDENTS AND RESIDENTS**Lipi Roy**, Latha Rajan*Tulane University, New Orleans, LA, United States*

734

REDUCED PEDIATRIC HOSPITALIZATIONS FOR SEVERE MALARIA FOLLOWING IMPLEMENTATION OF COMMUNITY-BASED PREVENTION AND EARLY TREATMENT PROGRAMS IN RURAL RWANDA**Amy Sievers**¹, Jennifer Lewey², Blaise Bucyibaruta³, Placide Musafiri³, Corine Karema⁴, Johanna Daily¹¹Brigham and Women's Hospital, Boston, MA, United States, ²Harvard Medical School, Boston, MA, United States, ³Rwinkwavu Hospital/Partners in Health, Rwinkwavu, Rwanda, ⁴Programme National Integre de Lutte contre le Paludisme, Kigali, Rwanda

735

PROSPECTIVE ASSESSMENT OF SEVERE MALARIA FOR CLINICAL TRIALS AT INSTITUTIONS IN WESTERN KENYA**Shon A. Remich**¹, Walter Otieno², Duke Omariba², Mark Polhemus³, Bernhards Ogutu⁴, Doug Walsh⁵, Robert Miller⁶¹Walter Reed Army Medical Center, Washington, DC, United States, ²KenyaMedical Research Institute, Kisumu, Kenya, ³United States Army MedicalUnit - Kenya, Kisumu, Kenya, ⁴Kemri Medical Research Institute, Kisumu,Kenya, ⁵United States Army Medical Research Unit-Kenya, Kisumu, Kenya,⁶Walter Reed Army Institute of Research, Washington, DC, United States

736

MALARIA INFECTION AND ANEMIA AMONG PREGNANT WOMEN AND CHILDREN UNDER FIVE YEARS OF AGE: A PREVALENCE SURVEY FROM FIVE DISTRICTS IN EASTERN INDONESIA**Maria E. Sumiwi**¹, Andrew Auld¹, Jodi van den Eng², Endang Widyastuti³, Ferdinand J. Laihad⁴, Hanifah Rogayah⁴, Charles Tobing⁴, William A. Hawley¹, William A. Hawley²¹United Nations Children's Fund, Jakarta, Indonesia, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³CARE, Jakarta,Indonesia, ⁴Sub Directorate Malaria, Ministry of Health, Jakarta, Indonesia

737

ACHIEVING EFFECTIVE COVERAGE: THE IMPORTANCE OF QUALITY AND USE CONSIDERATIONS IN SCALING UP BED NET DISTRIBUTION PROGRAMS FOR MALARIA CONTROL AND PREVENTION**Carol A. Medlin**¹, Carol Kolb²¹Institute for Global Health, San Francisco, CA, United States, ²University of California, Berkeley, Berkeley, CA, United States

738

ASSOCIATED INFECTIONS TO HUMAN BARTONELLOSIS (ACUTE CARRION'S DISEASE) INPATIENTS IN AN ENDEMIC AREA OF THE NORTHERN FOREST OF PERU**Paul E. Pachas**¹, Miguel Aranda², Lucinda Troyes³, David Matos², Zoila Villegas³, Nelson Solorzano⁴, Yanina Rojas², Jose Arias², Carlos Padilla⁵, Gladys Ventura⁵, Alexander Canelo³, Jorge A. Chancafe⁶, Luis A. Suarez-Ognio¹¹General Directorate of Epidemiology - Ministry of Health Peru, Lima, Peru,²Jaen General Hospital, Cajamarca Department, Peru, ³Jaen Directorate ofHealth, Cajamarca Department, Peru, ⁴Caraz Hospital, Ancash Department,Peru, ⁵National Institute of Health, Lima, Peru, ⁶San Ignacio Health Center,

Cajamarca Department, Peru

739

ADIPONECTIN AND LEPTIN - YIN AND YANG MEDIATORS OF THE MACROPHAGE INFLAMMATORY RESPONSE, DEPENDENT ON HOST NUTRITIONAL STATUS**Gregory M. Anstead**, Qiong Zhang, Peter C. Melby*South Texas Veterans Healthcare System, San Antonio, TX, United States***Diarrhea**

740

ETIOLOGY OF DIARRHEA AMONG 0- TO 59-MONTH OLD CHILDREN IN BAMAKO, MALI - A PILOT STUDY**Mama N. Doumbia**¹, Boubou Tamboura¹, Milagritos D. Tapia², Mariam Sylla³, Mamadou M. Keita³, Samba O. Sow¹, Myron M. Levine², Karen L. Kotloff²¹Centre pour le Developpement des Vaccins - Mali, Bamako, Mali,²University of Maryland School of Medicine, Baltimore, MD, United States,³Hopital Gabriel Toure, Bamako, Mali

741

EMERGENCE AND CLONAL EXPANSION OF INTESTINAL QUINOLONE-RESISTANT *ESCHERICHIA COLI* IN SOUTHWESTERN NIGERIARebecca S. Lijek¹, Rima Bishar¹, Adebayo Lamikanra², John Wain³, Iruka N. Okeke¹¹Haverford College, Haverford, PA, United States, ²Obafemi Awolowo University, Ile-Ife, Nigeria, ³Wellcome Trust Genome Institute, Cambridge, United Kingdom

742

CHARACTERISTICS OF CHOLERA OUTBREAK IN DELHI (2000-2006)Vineet Gupta¹, Tripurari Kumar², Sanjeev Bhoi¹¹All India Institute of Medical Sciences, New Delhi, India, ²Department of Health, Municipal Corporation Delhi, New Delhi, India

743

ELECTROLYTE AND MIXED ACID-BASE DISTURBANCES IN CHOLERAKatayoun Vahdat¹, Mehrnaz Resoulinejat²¹Professor Haghighi Department of Tropical Medicine, The Persian Gulf Health Research Center/Bushehr University of Medical Sciences, Bushehr, Islamic Republic of Iran, ²Department of Infectious Diseases, Tehran University of Medical Sciences, Tehran, Islamic Republic of Iran

744

PREVALENCE OF DIARRHEAGENIC *E. COLI* AMONG BACTERIAL ISOLATES IN PATIENTS WITH ACUTE DIARRHEA IN UZBEKISTAN: THREE YEARS SURVEILLANCE PROJECT RESULTSGulnara A. Ibadova¹, Aybek V. Khodiev¹, Tamara S. Nechmireva¹, Gulnara K. Abdukhalilova¹, Ruslan S. Madyarov¹, Carl J. Mason², Ladaporn Bodhidatta²¹Scientific Research Institute of Epidemiology, Microbiology and Infectious Diseases, Tashkent, Uzbekistan, ²Armed Force Research Institute of Medical Sciences, Bangkok, Thailand

745

CRYPTOSPORIDIUM AND MALNUTRITION ADDITIVELY INCREASE ILEAL DAMAGE AND PRO-INFLAMMATORY CYTOKINE RESPONSESBruna P. Coutinho¹, Carlos M. Vieira¹, Cirle A. Warren², Jesus Emmanuel A. Sevilleja², Jamilly G. Maciel¹, João R. Brito¹, Aldo A. Lima¹, Reinaldo B. Oria¹, Richard L. Guerrant²¹Clinic Research Unit and Institute of Biomedicine, School of Medicine, Federal University of Ceara, Fortaleza-CE, Brazil, ²Center for Global Health, School of Medicine, University of Virginia, Charlottesville, VA, United States

746

ROTAVIRUS DIARRHEA IN GHANA: EMERGING IMPORTANCE OF ZOONOTIC STRAINSRichard H. Asmah¹, George E. Armah², Fred N. Binka³, Francis Anto⁴¹School of Allied Health, Accra, Ghana, ²Noguchi Memorial Institute for Medical Research, Legon, Ghana, ³School of Public Health, Accra, Ghana, ⁴Navrongo Health Research Center, Navrongo, Ghana

747

THE EFFECT OF PREPARATION OF CEBICHE ON THE SURVIVAL OF *ESCHERICHIA COLI*, *AEROMONAS HYDROPHILA* AND *VIBRIO PARAHEMOLYTICUS*

Andres Herrera Camino, Benjamin J. Espinosa, Gladys Nunez, Nereyda Espinoza Zegarra, Gregory J. Martin

U.S. Naval Medical Research Center Detachment Peru, Lima, Peru

748

THE RETINOL EFFECT IN PROTECTING THE INTESTINAL EPITHELIAL DAMAGE INDUCED BY *CLOSTRIDIUM DIFFICILE* TOXIN AAndressa A. Maciel¹, Reinaldo B. Oria¹, Manuel B. Braga-Neto¹, Gerly A. Brito², Ibraim C. Castro¹, Eunice B. Carvalho¹, Herene B. Lucena¹, Aldo A. Lima¹, Richard L. Guerrant³¹Clinic Research Unit and Institute of Biomedicine, School of Medicine, Federal University of Ceara, Fortaleza-CE, Brazil, ²Department of Pharmacology, School of Medicine, Federal University of Ceara, Fortaleza-CE, Brazil, ³Center for Global Health, School of Medicine, University of Virginia, Charlottesville, VA, United States

749

HAND WASHING AND WATER USAGE IN A PERUVIAN SHANTYTOWNWilliam E. Oswald¹, Gabrielle C. Hunter¹, Andres G. Lescano², Lilia Cabrera³, Maritza C. Calderon², Robert H. Gilman¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Asociación Benéfica PRISMA, Lima, Peru

750

SURVEILLANCE FOR ACUTE DIARRHEAL DISEASES AMONG PERUVIAN MILITARY RECRUITS AT THE VARGAS-GUERRA ARMY (VGE) BASE IN QUITOS, PERU: FEBRUARY 2004-FEBRUARY 2007Giovanna Pastor¹, Rosa Burga¹, Franca Jones², Juan Perez¹, Rina Meza¹, Maruja Bernal¹, Yocelinda Meza¹, Benjamin Espinosa¹, Robert Kaminski³, Edwin Oaks³, Eric R. Hall¹¹Naval Medical Research Center-Detachment, U.S. Embassy - Lima, Peru, ²Naval Medical Research Center, Silver Spring, MD, United States, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States

751

DETECTION OF A HIGHLY SENSITIVE HUMAN FECAL BIOMARKER (10⁻¹⁰) IN ≤ 10 ML CONTAMINATED DRINKING WATER SAMPLES USING IMMUNOMAGNETIC SEPARATIONJesus Emmanuel A. Sevilleja¹, Curtis C. Copeland², Richard L. Guerrant²¹Center for Global Health, University of Virginia/National Institutes of Health, University of the Philippines, Charlottesville, VA, United States, ²Center for Global Health, University of Virginia, Charlottesville, VA, United States

752

GLUTAMINE AND ZINC SUPPORT BRAIN DEVELOPMENT IN SUCKLING SWISS MICE CHALLENGED BY UNDERNUTRITION

Ibraim C. Castro¹, Bruna P. Coutinho¹, Bruna B. Oliveira¹, Fernando V. Ladd², Aliny B. Ladd², George André F. Sales¹, Antônio Augusto C. Ribeiro², Aldo A. Lima¹, **Reinaldo B. Oria**¹, Richard L. Guerrant³

¹Clinic Research Unit and Institute of Biomedicine, School of Medicine, Federal University of Ceara, Fortaleza-CE, Brazil, ²Laboratory of Stereology and Chemical Anatomy, College of Veterinarian Medicine, University of Sao Paulo, Sao Paulo-SP, Brazil, ³Center for Global Health, School of Medicine, University of Virginia, Charlottesville, VA, United States

753

APOE KNOCK-OUT MICE HAVE DISRUPTED INTESTINAL TIGHT JUNCTIONS, FOLLOWING EARLY POST-NATAL MALNUTRITION

Reinaldo B. Oria¹, Bruna Coutinho¹, Manuel B. Braga-Neto¹, Isa Hussaini², Maria Beatriz Lopes², Weibin Shi³, Aldo A. Lima¹, Richard L. Guerrant⁴

¹Clinic Research Unit and Institute of Biomedicine, School of Medicine, Federal University of Ceara, Fortaleza-CE, Brazil, ²Department of Pathology, School of Medicine, University of Virginia, Charlottesville, VA, United States, ³Department of Radiology, School of Medicine, University of Virginia, Charlottesville, VA, United States, ⁴Center for Global Health, School of Medicine, University of Virginia, Charlottesville, VA, United States

Flaviviridae - Dengue

754

DENGUE VIRUS SEROTYPE 2 (SE ASIAN STRAIN) IS STRONGLY ASSOCIATED WITH CLINICALLY DEFINED SECONDARY INFECTIONS IN PUERTO RICO

Gilberto A. Santiago, Iris Sosa, Candimar Colon, Jorge Muñoz-Jordán

Centers for Disease Control and Prevention, San Juan, PR, United States

755

GENETIC CHARACTERIZATION OF DENGUE 3 VIRUS ISOLATES RECOVERED FROM PATIENTS WITH ENCEPHALOMYELITIS, RONDÔNIA STATE, NORTHERN BRAZIL

Márcio R. Nunes, Samir M. Casseb, Helena B. Vasconcelos, Eliana V. da Silva, **Pedro F. Vasconcelos**

Instituto Evandro Chagas, Belém, Brazil

756

EVALUATION OF A COMMERCIAL NS-1 ANTIGEN CAPTURE ELISA FOR THE DIAGNOSIS OF ACUTE DENGUE INFECTION

Kovi Bessoff, Manuela Beltran, Edgardo Vergne, Elizabeth Hunsperger

Centers for Disease Control and Prevention, Division of Vector Borne Infectious Diseases, Dengue Branch, San Juan, PR, United States

757

A BIVALENT DNA VACCINE CANDIDATE AGAINST DENGUE-3 AND DENGUE-4 EXPRESSING THE STRUCTURAL PRM/E PROTEINS ELICITS CELLULAR IMMUNE RESPONSE AND PROTECTS MICE AGAINST LETHAL CHALLENGE

Danielle M. Lima¹, Sérgio O. De Paula², Patricia V. Palma¹, Benedito A. Fonseca¹

¹School of Medicine of Ribeirão Preto, Ribeirão Preto, S.P., Brazil, ²Federal University of Viçosa, Viçosa, M.G., Brazil

758

SERUM LEVELS OF TNF-ALPHA, IL-6 AND IFN-GAMMA AMONG TWO ETHNIC GROUPS INFECTED WITH DENGUE IN COLOMBIA

Berta N. Restrepo¹, Ruth E. Ramirez¹, Margarita Arboleda¹, Marco Restrepo¹, Marta Ospina²

¹Instituto Colombiano de Medicina Tropical-Universidad CES, Sabaneta, Colombia, ²Dirección Seccional de Salud de Antioquia, Medellín, Colombia

759

DIFFERENTIAL EXPRESSION OF EFFECTOR-MEMORY CD8⁺T CELL SUBSETS IN PERIPHERAL BLOOD CORRELATES WITH DENGUE HEMORRHAGIC FEVER

Beatriz Parra, Gerardo A. Libreros, Edwin H. Pardo, Graciela Rengifo, Anilza Bonelo, Fabián Méndez

Universidad del Valle, Cali, Colombia

760

SEROTYPE-SPECIFIC CLINICAL CHARACTERISTICS OF HOSPITALIZED DENGUE IN THE PHILIPPINES

John Mark S. Velasco¹, Maria Theresa Alera², Charity A. Ypil-Butac¹, Mammen P. Mammen³, Robert V. Gibbons³, Richard Jarman³, Ananda Nisalak³, In-Kyu Yoon³

¹Armed Forces Research Institute of Medical Sciences-Philippines, Manila, Philippines, ²San Lazaro Hospital, Manila, Philippines, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

761

HEAVY PRECIPITATION IN THE BEGINNING OF THE SUMMER IS ASSOCIATED TO A SMALLER NUMBER OF DENGUE CASES IN RIBEIRÃO PRETO, SÃO PAULO STATE, BRAZIL

Paula Takahashi, **Benedito A. Fonseca**

School of Medicine of Ribeirão Preto, Ribeirão Preto, S.P., Brazil

762

THE ROLE OF T CELLS IN DENGUE VIRUS INFECTION

Lauren E. Yauch, Sujjan Shresta

La Jolla Institute for Allergy and Immunology, La Jolla, CA, United States

763

AN ANALYSIS OF REPEAT HOSPITAL ADMISSIONS FOR DENGUE TO ESTIMATE THE FREQUENCY OF THIRD OR FOURTH DENGUE INFECTIONS RESULTING IN ADMISSIONS, DENGUE HEMORRHAGIC FEVER, AND SEROTYPE SEQUENCES

Robert Gibbons¹, Siripen Kalanarooj², Richard Jarman¹, Ananda Nisalak¹, David Vaughn³, Timothy Endy⁴, Mammen Mammen⁵, Anon Srikiatkachorn⁶

¹Armed Forces Research Institute for Medical Sciences, Bangkok, Thailand,

²Queen Sirikit Institute for Child Health, Bangkok, Thailand,

³GlaxoSmithKline, King of Prussia, PA, United States, ⁴State University of New York, Syracuse, NY, United States, ⁵United States Army Medical Research and Materiel Command, Fort Detrick, MD, United States,

⁶University of Massachusetts Medical School, Worcester, MA, United States

764

UTILIZATION OF MEDICAL SERVICES AND QUALITY OF LIFE AMONG DENGUE PATIENTS IN EIGHT ENDEMIC COUNTRIES

Donald S. Shepard¹, Jose A. Suaya¹, Blas Armién², Mariana Caram¹, Leticia Castillo³, Ngan Chantha⁴, Fátima Garrido⁵, Sukhontha Kongsin⁶, Lucy Lum⁷, Romeo H. Montoya⁸, João B. Siqueira⁹, Rana Sughayyar¹, Karen Tyo¹

¹Brandeis University, Waltham, MA, United States, ²Instituto Conmemorativo

Gorgas de Estudios de la Salud, Panama City, Panama, ³National Health Laboratory, Ministry of Health and Social Assistance, Guatemala City,

Guatemala, ⁴National Dengue Control Program at the National Center for

Malaria, Ministry of Health, Phnom Penh, Cambodia, ⁵Ministry of Health

and Social Development, Caracas, Venezuela, ⁶Mahidol University, Bangkok,

Thailand, ⁷University of Malaya Medical Center, Kuala Lumpur, Malaysia,

⁸Ministry of Health and Social Assistance, San Salvador, El Salvador, ⁹Federal University of Goiás, Goiana, Brazil

765

ANALYSIS OF NS-1 ANTIGEN AND VIREMIA IN HOSPITALIZED DENGUE HEMORRHAGIC FEVER AND DENGUE FEVER PATIENTS IN THAILAND

Rick G. Jarman¹, Chonticha Klungthong¹, Butsaya Thaisomboonsuk¹, Ananda Nisalak¹, Alan Rothman³, Sharone Green³, Stephen Thomas³, Jean Francois Toussaint⁴, Siripen Kalanarooj⁵, Robert Gibbons¹

¹Armed Forces Research Institute for Medical Sciences, Bangkok, United States, ²University of Massachusetts Medical School, Worcester, MA, United States,

³Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴GlaxoSmithKline, Rixensart, Belgium, ⁵Queen Sirikit Institute for Child Health, Bangkok, Thailand

766

CLINICAL DESCRIPTION OF DENGUE FEVER AND DENGUE HEMORRHAGIC FEVER CASES IDENTIFIED DURING A CLUSTER EPIDEMIOLOGY STUDY IN WEST JAVA, INDONESIA

Herman Kosasih¹, Kiki M. Samsi², Bacht Alisjahbana³, Zen Hafy¹, Djoko Yuwono⁴, Nurhayati¹, Panji F. Hadisoemarto³, Patrick Blair¹, Timothy Burgess¹

¹Naval Medical Research Unit 2, Jakarta, Indonesia, ²Sumber Waras Hospital, Jakarta, Indonesia, ³Hasan Sadikin Hospital, Bandung, Indonesia, ⁴National Institute of Health Research and Development, Jakarta, Indonesia

767

SEQUENCE OF INFECTION RATES DETERMINED USING SINGLE DILUTION NEUTRALIZATION ASSAY FROM 1998-2001 KAMPHAENG PHET THAILAND PROSPECTIVE STUDY

Ananda Nisalak¹, Scott B. Halstead², Timothy Endy³, Butsaya Thaisomboonsuk¹, Alan Rothman⁴, Sharone Green⁴, Robert Gibbons¹, Richard G. Jarman¹

¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand,

²Supportive R&D, Pediatric Dengue Vaccine Initiative, Bethesda, MD, United States, ³State University of New York, Syracuse, NY, United States,

⁴University of Massachusetts Medical School, Worcester, MA, United States

768

ESTIMATING THE TOTAL WORLD POPULATION AT RISK FOR LOCALLY ACQUIRED DENGUE INFECTION

Mark E. Beatty, William Letson, Dianna M. Edgil, Harold S. Margolis

International Vaccine Institute, Seoul, Republic of Korea

769

CLIMATE-BASED FORECASTING MODELS FOR DENGUE: A CASE STUDY IN PRACHUAP KHIRI KHAN PROVINCE IN THAILAND

Mathuros Tipayamongkholgul

Graduate Institute of Epidemiology, Taipei, Taiwan

Helminths – Nematodes – Filariasis (Clinical)

770

AFTER A DECADE OF ANNUAL DOSE OF IVERMECTIN ON ONCHOCERCIASIS PREVALENCE IN CAMEROON AND UGANDA, TRANSMISSION CONTINUES

Moses N. Katarwa¹, Peace Habomugisha², Tom Lakwo³, Albert Eyamba⁴, Frank O. Richards¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Kampala, Uganda, ³Ministry of Health, Kampala, Uganda, ⁴The Carter Center, Yaoundé, Cameroon

Helminths - Nematodes - Filariasis (Epidemiology)

771

EVALUATION OF WHOLE BLOOD COLLECTION METHODS USING THE OG4C3 ELISA IN BANCROFTIAN FILARIASIS

David Reeve, Wayne Melrose, Jan Smith, Jennifer Elliman

James Cook University, Townsville, Australia

772

DENSITY-DEPENDENT MORTALITY OF THE HUMAN HOST IN ONCHOCERCIASIS: RELATIONSHIPS BETWEEN MICROFILARIAL LOAD AND EXCESS MORTALITY

Mark P. Little¹, Karen Wagner², Edoh William Soubey-Alley³, **Maria-Gloria Basáñez¹**

¹Imperial College London, London, United Kingdom, ²Health Protection Agency, London, United Kingdom, ³World Health Organization Regional Office for Africa, Brazzaville, Congo

773

EFFECT OF SINGLE DOSE IVERMECTIN ON *ONCHOCERCA VOLVULUS*: A SYSTEMATIC REVIEW

Maria-Gloria Basáñez¹, Sébastien D.S. Pion², Eve Boakes¹, João A.N. Filipe³, Thomas S. Churcher¹, Michel Boussinesq⁴

¹Imperial College London, London, United Kingdom, ²Institut d'Epidémiologie et de Neurologie Tropicale, Limoges, France, ³London School of Hygiene and Tropical Medicine, London, United Kingdom, ⁴Institut de Recherche pour le Développement, Paris, France

774

FIVE YEARS OF MDA FOR FILARIASIS: REFLECTIONS ON THE SUCCESSES, CHALLENGES AND ASPECTS OF PROGRAM INTEGRATION

Charles Mackenzie¹, Mwele Malecela², Esther Mwakitalu²

¹Michigan State University, Dimondale, MI, United States, ²NIMR, Dar es Salaam, United Republic of Tanzania

Helminths - Nematodes - Filariasis (Immunology)

775

DEVELOPMENT OF A RAPID FLOW CYTOMETRIC ASSAY FOR THE MEASUREMENT OF MURINE BASOPHIL ACTIVATION

Marina N. Torrero, Edward Mitre

Uniformed Services University of the Health Sciences, Bethesda, MD, United States

(ACMCIP Abstract)

Helminths - Nematodes - Filariasis (Molecular Biology)

776

P-GLYCOPROTEIN-LIKE PROTEIN, A PROMISING GENETIC MARKER TO FOLLOW POTENTIAL IVERMECTIN RESISTANCE IN *ONCHOCERCA VOLVULUS*

Catherine Bourguinat¹, Bernadette F. Ardelli², Sébastien D. Pion³, Joseph Kamgno⁴, Jacques Gardon⁵, Brian O. Duke⁶, Michel Boussinesq⁷, Roger K. Prichard¹

¹Institute of Parasitology, McGill University, Sainte-Anne-de-Bellevue, QC, Canada, ²Department of Zoology, Brandon University, Brandon, MB, Canada, ³Laboratoire de Neuroparasitologie et Neuroépidémiologie Tropicale, Faculté de Médecine, Limoges, France, ⁴National Onchocerciasis Task Force Cameroon, Yaounde, Cameroon, ⁵UR 24 Epidémiologie et Prévention, Institut de Recherche pour le Développement, La Paz, Bolivia, ⁶River Blindness Foundation, Lancaster, United Kingdom, ⁷UR 24 Epidémiologie et Prévention, Institut de Recherche pour le Développement, Paris, France

777

GENE EXPRESSION AND LOCALIZATION STUDIES OF THE FILARIAL DIAGNOSTIC ANTIGEN BM14

Daojun Jiang, Peter U. Fischer, Amy C. Rush, Ben-Wen Li, Kurt C. Curtis, Ramakrishna U. Rao, Gary J. Weil

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

778

WHOLE GENOME AMPLIFICATION AND OLIGONUCLEOTIDE ARRAY HYBRIDIZATION FOR GENOMIC CHARACTERIZATION OF FILARIAL PARASITES

Samantha N. Piper

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

779

LONG-TERM DOXYCYCLINE TREATMENT AFFECTS *WOLBACHIA* AND PARASITE GENE EXPRESSION IN ADULT FEMALE *BRUGIA MALAYI*

Ramakrishna U. Rao¹, Yeufang Huang¹, Seth D. Crosby², Makedonka Mitreva², Yong Yin², Gary J. Weil¹

¹Washington University School of Medicine, St. Louis, MO, United States, ²Genome Sequencing Center, Washington University School of Medicine, St. Louis, MO, United States

780

ANNOTATION AND FUNCTIONAL ANALYSIS OF GENDER-REGULATED GENE EXPRESSION IN ADULT *BRUGIA MALAYI*

Ben-Wen Li

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

(ACMCIP Abstract)

782

THE *WOLBACHIA* ENDOSYMBIONT OF FILARIAL PARASITES CONTAIN HEME BIOSYNTHESIS ENZYMES WHICH ARE POTENTIAL DRUG TARGETS

Bo Wu, Beth Ann Cantin, Barton Slatko

New England Biolabs, Inc., Ipswich, MA, United States

Helminths - Nematodes - Filariasis (Other)

783

ULTRASTRUCTURAL STUDY OF *BRUGIA PAHANGI*: A RICH ANTIGENIC SOURCE

Kajee Pilakasiri¹, **Chaiyaphruk Pilakasiri**², Jantima Rongruangchai¹, Kosol Roonruangchai³, Prasert Sobhon⁴

¹Department of Anatomy, Faculty of Medicine Siriraj Hospital, Bangkok, Thailand, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³Department of Parasitology, Faculty of Medicine Siriraj Hospital, Bangkok, Thailand, ⁴Department of Anatomy, Faculty of Science, Mahidol University, Bangkok, Thailand

784

A RANDOMIZED DOUBLE-BLIND CONTROL TRIAL OF A SINGLE DOSE OF DIETHYLCARBAMAZINE IN COMBINATION WITH DOXYCYCLINE FOR TREATMENT OF *WUCHERERIA BANCROFTI* INFECTION

Vivornpun Sanprasert¹, Anupong Sujariyakul², Kanitha Patarakul³, Surang Nuchprayoon¹

¹Lymphatic Filariasis Research Unit, Department of Parasitology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ²Office of Disease Prevention and Control Nakhon Sawan Province, Thailand, ³Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

785

VARIANT SNPS OF THE IL-10 PROMOTER AT POSITIONS -854 AND -627 RESPONSIBLE FOR LOW IL-10 SECRETION ARE ASSOCIATED WITH LOWER LEVELS OF CIRCULATING *BRUGIA TIMORI* MICROFILARIAE BUT NOT WITH FILARIAL LYMPHEDEMA

Kenneth Pfarr¹, Peter Fischer², Sandra Arriens¹, Jessica Douglas³, Bertram Müller-Myhsok⁴, Kerstin Fischer², Christian Timmann⁵, Taniawati Supali⁶, Achim Hoerauf¹

¹University Clinic Bonn, Bonn, Germany, ²Washington University School of Medicine, St. Louis, MO, United States, ³University of Glasgow, Glasgow, United Kingdom, ⁴Max Planck Institute of Psychiatry, Munich, Germany,

⁵Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany,

⁶University of Indonesia, Jakarta, Indonesia

(ACMCIP Abstract)

Kinetoplastida - Epidemiology

786

IDENTIFYING *TRYPANOSOMA CRUZI* INFECTION IN CHILDREN DURING A VECTOR CONTROL CAMPAIGN

Michael Z. Levy¹, Vivian Kawai², Natalie M. Bowman², Lance A. Waller¹, Lilia Cabrera², Viviana V. Pinedo-Cancino², Amy E. Seitz¹, Frank J. Steurer³, Juan G. Cornejo del Carpio⁴, Eleazar Cordova-Benzaquen⁵, James H. Maguire⁶, Robert H. Gilman⁷, Caryn Bern³

¹Emory University, Atlanta, GA, United States, ²AB Prisma, Lima, Peru, ³Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Dirección Regional del Ministerio de Salud, Arequipa, Peru, ⁵AB Prisma, Arequipa, Peru, ⁶University of Maryland, Baltimore, MD, United States, ⁷Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States

787

MULTI-SITE EPIDEMIOLOGIC STUDIES OF CHAGAS' DISEASE IN PREGNANT WOMEN FROM THREE LATIN AMERICAN COUNTRIES

Sergio Sosa-Estani¹, Pierre Buekens¹, Jackeline Alger², Olivia Almendares¹, Fernando Althabe³, Domingo Amador⁴, José Belizán³, Eduardo Bergel³, María Luisa Cafferata⁵, Jaime Del Cid⁴, Eric Dumontiel⁶, Rubí Gamboa-Leon⁶, Luis Israel Giron⁷, Mark James¹, Nicolas Padilla-Raygoza⁸, Carlos Ponce⁹, Elisa Ponce⁹, Concepción Zúñiga¹⁰

¹Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²Servicio de Parasitología, Hospital Escuela, Tegucigalpa, Honduras, ³Institute for Clinical Effectiveness and Health Policy, Buenos Aires, Argentina, ⁴Hospital Enrique Aguilar Cerrato, La Esperanza, Intibuca, Honduras, ⁵Perinatal Research Unit, Montevideo, Uruguay,

⁶Universidad Autónoma de Yucatán, Mérida, Mexico, ⁷Region Departamental de Salud, La Esperanza, Intibuca, Honduras, ⁸Facultad de Enfermería y Obstetricia de Celaya, Universidad de Guanajuato, Celaya, Mexico, ⁹Sección Chagas Leishmaniasis, División Laboratorio Central, Ministerio de Salud Pública, Tegucigalpa, Honduras, ¹⁰Ministerio de Salud Pública, Tegucigalpa, Honduras

788

AN EPIDEMIOLOGICAL SURVEY FOR HUMAN AND CANINE LEISHMANIASIS IN AYDIN PROVINCE, TURKEY

Sema Ertug¹, Pinar Okyay², Tülin Karagenc³, Hasan Eren³, **Hatice Ertabaklar**¹, Yusuf Ozbel⁴

¹Adnan Menderes University Medical Faculty Department of Parasitology, Aydin, Turkey, ²Adnan Menderes University Medical Faculty, Department of Public Health, Aydin, Turkey, ³Adnan Menderes University Veterinary Faculty, Department of Parasitology, Aydin, Turkey, ⁴Ege University Medical Faculty, Department of Parasitology, Aydin, Turkey

789

SINGLE STRAND CONFORMATION POLYMORPHISM AND INFECTION IN MICE OF VISCERAL LEISHMANIASIS ISOLATED FROM NEPALESE PATIENTS

Kishor Pandey¹, Tetsuo Yanagi¹, Basu Dev Pandey², Arun Kumar Mallik³, Jeevan Bahadur Sherchand⁴, Hiroji Kanbara¹

¹Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan,

²Sukraraj Tropical and Infectious Disease Hospital, Kathmandu, Nepal,

³Janakpur Zonal Hospital, Janakpur, Nepal, ⁴Department of Microbiology-Parasitology, Tribhuvan University Teaching Hospital, Kathmandu, Nepal

(ACMCIP Abstract)

790

EPIDEMY OF CUTANEOUS LEISHMANIASIS IN OUAGADOUGOU, BURKINA FASO (WEST AFRICA): INVESTIGATIONS ON THE VECTORS AND THE RODENT RESERVOIR OF THE PARASITES

Robert T. Guiguemde

Centre Muraz, Bobo-Dioulasso, Burkina Faso

791

IS PHLEBOTOMUS HALEPENSIS NATURAL VECTOR OF LEISHMANIA TROPICA? A PARASITOLOGICAL SURVEY IN A NEW CUTANEOUS LEISHMANIASIS FOCUS IN CENTRAL ANATOLIA OF TURKEY

Yusuf Ozbel¹, Cuneyt Balcioglu², Seray Ozensoy Toz¹, Gulden Sonmez³, Samiye Demir⁴, Hatice Ertabaklar⁵

¹Ege University Medical School, Izmir, Turkey, ²Celal Bayar University Medical School, Manisa, Turkey, ³Kocaeli University Medical School, Kocaeli, Turkey,

⁴Ege University Science School, Izmir, Turkey, ⁵Adnan Menderes University Medical School, Izmir, Turkey

792

IMMUNO-EPIDEMIOLOGY OF VISCERAL LEISHMANIASIS IN A COHORT OF BRAZILIAN DOGS

Seyi Soremekun¹, Rupert Quinnell², Lourdes Garcez³, Paul Bates⁴, Matthew Rogers⁵, Orin Courtenay¹

¹University of Warwick, Coventry, United Kingdom, ²University of Leeds, Leeds, United Kingdom, ³Instituto Evandro Chagas, Belem, Brazil, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ⁵London School of Hygiene and Tropical Medicine, London, United Kingdom

(ACMCIP Abstract)

793

ACUTE CHAGAS DISEASE OUTBREAK ASSOCIATED TO AÇAÍ JUICE CONSUMPTION - PARÁ STATE/BRAZIL, 2006**Aglaêr A. da Nóbrega***Field Epidemiology Training Program, Secretariat of Health Surveillance, Ministry of Health (MoH), Brasília, Brazil*

794

IMPACT OF HUMAN AFRICAN TRYPANOSOMIASIS IN A RURAL COMMUNITY IN DEMOCRATIC REPUBLIC OF CONGO**Pascal Lutumba¹**, Eric Makieya², Alexandra Shaw³, Filip Meheus⁴, Marleen Boelaert¹*¹Institute of Tropical Medicine, Antwerp, Belgium, ²Kinshasa University, Kinshasa, Democratic Republic of the Congo, ³AP Consultant, Andover, United Kingdom, ⁴Royal Tropical Institute, Amsterdam, Netherlands Antilles*

796

IMPACT OF CLIMATE VARIABILITY ON CUTANEOUS LEISHMANIASIS IN VENEZUELA**Alfonso J. Rodriguez-Morales¹**, Liliana Rada², Jesus Benitez³, Carlos Franco-Paredes⁴*¹Universidad de Los Andes, Trujillo, Venezuela, ²Salud Miranda, Miranda, Venezuela, ³Ministry of Health, Maracay, Venezuela, ⁴Emory University, Atlanta, GA, United States*

797

IDENTIFICATION OF THE ETIOLOGIC AGENT OF THE EPIDEMIC OF CUTANEOUS LEISHMANIASIS IN TOLIMA, COLOMBIA**Isabel Rodriguez-Barraquer¹**, Rafael Góngora¹, Robinson Pacheco¹, Adriana Navas¹, Cristina Ferro², Marta Ayala², Martín Prager¹, **Maria Consuelo Miranda¹**, Nancy Gore Saravia¹*¹CIDEIM, Cali, Colombia, ²Instituto Nacional de Salud, Bogotá, Colombia***Malaria – Biology and Pathogenesis**

798

ANALYSIS OF *PLASMODIUM FALCIPARUM* MAL13P1.319, A SPOOROZOITE GENE**Renee N. Roberts**, Michael Kariuki, Alexis LaCrue, Ruguang Ou, Brenda Beerntsen*University of Missouri-Columbia, Columbia, MO, United States*

(ACMCIP Abstract)

799

ACUTE LUNG INJURY IN A SEVERE MALARIA MODEL IS DEPENDENT ON TOTAL PARASITE BURDEN AND CD36-DEPENDENT LOCAL SEQUESTRATION IN THE LUNG**Fiona E. Lovegrove**, Samir N. Patel, Andrea Conroy, W. Conrad Liles, Kevin C. Kain*McLaughlin-Rotman Centre for Global Health, University of Toronto, Toronto, ON, Canada*

(ACMCIP Abstract)

800

DEVELOPMENT OF A MOUSE MODEL FOR PREGNANCY-ASSOCIATED MALARIA STUDIES**Claudio R. Marinho**, Rita Neres, Carlos Penha-Gonçalves
Instituto Gulbenkian de Ciência, Oeiras, Portugal

(ACMCIP Abstract)

801

PLASMODIUM YOELII MAKES A FUNCTIONAL HOMOLOG OF THE MAMMALIAN MACROPHAGE MIGRATION INHIBITORY FACTOR**Swati Thorat***Drexel University College of Medicine, Philadelphia, PA, United States*

(ACMCIP Abstract)

802

GENE EXPRESSION ANALYSIS OF ENDOTHELIAL CELL ADHERENT VERSUS NON-ADHERENT RETICULOCYTES INFECTED WITH *PLASMODIUM YOELII* 17X**Amy Cernetich-Ott**, Thomas M. Daly, Lawrence W. Bergman, James M. Burns, Jr.*Drexel University College of Medicine, Philadelphia, PA, United States*

(ACMCIP Abstract)

803

TRANSPLACENTAL TRANSFER OF MSP1₄₂ USING THE *IN VITRO* PLACENTAL PERFUSION MODEL**Karen May¹**, Indu Malhotra², Marcus Grube¹, Carole Long³, Kishor Mandaliya⁴, Christoph Fusch¹, Henning Schneider⁵, **Christopher L. King²***¹Ernst Moritz Arndt University of Greifswald, Greifswald, Germany, ²Case Western Reserve University, Cleveland, OH, United States, ³National Institutes of Health, Bethesda, MD, United States, ⁴Pathology Services Kenyan Ministry of Health, Mombasa, Kenya, ⁵University of Berne, Berne, Switzerland*

804

PLASMODIUM* DERIVED FACTORS INDUCE APOPTOSIS IN HUMAN NEUROGLIA AND VASCULAR ENDOTHELIAL CELLS*Nana Wilson**, Mingbo Huang, Vincent Bond, Michael Powell, Kiantra I. Ramey, Henry Armah, September Hesse, Kwaku Asare, Jonathan K. Stiles*Morehouse School of Medicine, Atlanta, GA, United States*

(ACMCIP Abstract)

805

PLASMODIUM BERGHEI* ANKA IS ASSOCIATED WITH COGNITIVE DYSFUNCTION IN MICE*Mahalia S. Desruisseaux¹**, Maria Gulinello¹, Sunhee Lee¹, David Smith¹, Moriya Tsuji², David C. Spray¹, Herbert B. Tanowitz¹*¹Albert Einstein College of Medicine, Bronx, NY, United States, ²ADARC Rockefeller University, New York, NY, United States*

806

FUNCTIONAL ASSESSMENT OF A 72KDA PUTATIVE GLUCOSE REGULATED PROTEIN IN *PLASMODIUM KNOWLESII* BLOOD-STAGE PARASITES**Sheila Akinyi**¹, Cindy C. Korir¹, Balwan Singh¹, John W. Barnwell², Mary R. Galinski¹¹Emory University - Emory Vaccine Center, Atlanta, GA, United States,²Centers for Disease Control and Prevention - Division of Parasitic Diseases - National Center for Infectious Diseases, Atlanta, GA, United States

(ACMCIP Abstract)

807

THE MURINE COMA AND BEHAVIOR SCORE: A RAPID ASSESSMENT TOOL FOR MURINE CEREBRAL MALARIA**Ryan W. Carroll**

Northwestern University, Chicago, IL, United States

808

VARIANT SPECIFIC IMMUNITY TO MALARIA IN PREGNANCY: PROTECTION AGAINST ANAEMIA AND REINFECTION, AND EFFECTS OF IPTP ON DEVELOPMENT OF ANTIBODY**Stephen Rogerson**¹, Elizabeth Aitken¹, Gaoqian Feng¹, Bernard Mbewe², Linda Kalilani², Per Ashorn³, Steven Meshnick⁴¹University of Melbourne, Parkville Victoria, Australia, ²College of Medicine, University of Malawi, Blantyre, Malawi, ³University of Tampere, Tampere, Finland, ⁴University of North Carolina, Chapel Hill, NC, United States

(ACMCIP Abstract)

Malaria - Diagnosis

809

ENHANCED DETECTION OF GAMETOCYTES PREDICTS HIGHER POTENTIAL FOR *PLASMODIUM FALCIPARUM* TRANSMISSION**Stephan Karl**¹, Brian T. Grimberg², Lee R. Moore³, Makindi David⁴, Pascal Michon⁴, Ivo Mueller⁵, Maciej Zborowski³, Peter A. Zimmerman²¹University of Technology Dresden, Dresden, Germany, ²The Center of Global Health and Disease, Case Western Reserve University, Cleveland, OH, United States, ³Cleveland Clinics, Lerner Research Institute, Department of Biomedical Engineering, Cleveland, OH, United States, ⁴Molecular Parasitology Unit, Institute of Medical Research Papua New Guinea, Madang, Papua New Guinea, ⁵Vector Borne Diseases, Goroka, Papua New Guinea

810

EVALUATION OF REAL-TIME PCR PROTOCOLS FOR LABORATORY DIAGNOSIS OF MALARIA**Ozgun Koru**, Yvonne Qvarnstrom, Susan B. Slemenda, Manipheth Xayavong, Stephanie P. Johnston, Alexandre J. da Silva

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

811

AVOIDING MISCLASSIFICATION OF RECURRENT *PLASMODIUM FALCIPARUM* PARASITEMIAS AFTER THERAPY**Jonathan J. Juliano**¹, Emily Wenink¹, Frederic Ariey², Pharath Lim², Noppadon Tangpukdee³, Srivicha Krudsood³, Carol Olson⁴, Sornchai Looareesuwan³, Steven R. Meshnick¹¹University of North Carolina, Chapel Hill, NC, United States, ²Institut Pasteur du Cambodge, Phnom Penh, Cambodia, ³Hospital for Tropical Diseases, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ⁴Immtech Pharmaceuticals, Inc., Vernon Hills, IL, United States

812

ESTIMATION OF MALARIA PARASITE DENSITY IN URINE AND SALIVA SAMPLES USING REAL-TIME QUANTITATIVE PCR (QPCR) METHODS**Davis Nwakanma**¹, Natalia Gomez-Escobar¹, Michael Walther¹, Sarah Crozier¹, Elissa Malkin², Emily Locke², David Conway¹¹UK, Medical Research Council Laboratories, The Gambia, Banjul, Gambia, ²The PATH Malaria Vaccine Initiative, Bethesda, MD, United States

813

SEVERE THROMBOCYTOPENIA: A CLUE IN A PATIENT WITH MALARIA**Ihosvani Miguel**, Naile Barzaga, Deborah Asnis

Flushing Hospital Medical Center, Flushing, NY, United States

814

COMPARISON OF BLOOD SMEAR MICROSCOPY AND PCR BASED METHODS IN THE DETECTION OF *PLASMODIUM FALCIPARUM* IN ACTIVE SURVEILLANCE FOR HIGHLAND MALARIA IN WESTERN KENYA**David M. Menge**¹, Kacey C. Ernst², John Vulule³, Peter A. Zimmerman⁴, Chandy C. John¹¹Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota, Minneapolis, MN, United States, ²University of Michigan School of Public Health, Ann Arbor, MI, United States, ³Center for Vector Biology and Control Research, Kenya Medical Research Institute, Kisumu, Kenya, ⁴The Center for Global Health and Diseases, Case Western Reserve University School of Medicine, Cleveland, OH, United States

815

SPECIATION OF ALL FOUR HUMAN MALARIA PARASITES IN A SINGLE, MULTIPLEX REAL-TIME PCR REACTIONSandra E. Shokoples¹, Momar Ndao², Kinga Kowalewska-Grochowska³, **Stephanie K. Yanow**¹¹Provincial Laboratory for Public Health, Edmonton, AB, Canada, ²McGill University, Montreal, QC, Canada, ³University of Alberta, Edmonton, AB, Canada

Malaria – Drug Development

816

DB75, A NOVEL DIAMIDINE, DEMONSTRATES A STAGE SPECIFIC KILLING ACTION AND UPREGULATES DNA PRIMASE EXPRESSION

Anne E. Purfield, Richard R. Tidwell, Steven R. Meshnick
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

817

USING 3D-QSAR TO IDENTIFY NEW CHEMICAL CLASSES THAT SPECIFICALLY INHIBIT BETA-KETOACYL ACP SYNTHASE III (PFKASIII) IN *PLASMODIUM FALCIPARUM*

Heather W. Gaona¹, Patricia J. Lee¹, Jayendra B. Bhonsle¹, Sean T. Prigge², Thomas H. Hudson¹, Kevin A. Reynolds³, William F. McCalmont¹, Tiffany N. Heady¹, Donald P. Huddler¹, Mara Kreishman-Deitrick¹, Apurba K. Bhattacharjee¹, Lucia Gerena¹, Norma E. Roncal¹, Miriam Lopez-Sanchez¹, Jacob D. Johnson¹, Norman C. Waters¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²Johns Hopkins University, School of Public Health, Baltimore, MD, United States, ³Portland State University, Portland, OR, United States

818

CONTRIBUTION OF POLYMORPHISM IN *PF CRT*, *PFMDR1* AND *PFNHE* GENES IN THE REVERSAL OF QUINOLINE RESISTANCE IN *PLASMODIUM FALCIPARUM*

Maud Henry¹, Sandrine Alibert², Eric Baret¹, Joel Mosnier¹, Thierry Fusai¹, Jacques Barbe², Christophe Rogier¹, **Bruno Pradines**¹

¹Institut de Médecine Tropicale du Service de Santé des Armées, Marseille, France, ²GERCTOP-UMR CNRS 6178 Faculté de Pharmacie, Marseille, France

819

THE RELATIONSHIP BETWEEN SUBSTITUTED 1,7-DIAMINOISOQUINOLINE STRUCTURE AND ANTIMALARIAL ACTIVITY

Clare E. Gutteridge¹, Apurba K. Bhattacharjee², Marshall M. Hoffman¹

¹United States Naval Academy, Annapolis, MD, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

820

ASSESSMENT OF MALARIA *IN VITRO* DRUG COMBINATION SCREENING AND MIXED STRAIN INFECTIONS USING THE SYBR GREEN FLUORESCENCE ASSAY

Drew D. Reinbold, Richard A. Denuil, Norman C. Waters, Jacob D. Johnson

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

821

A COLORIMETRIC HIGH THROUGHPUT SCREEN FOR THE DETECTION OF HEME CRYSTALLIZATION INHIBITORS

Margaret A. Rush¹, Ralph Mazitschek², Mary L. Baniecki¹, Roger Weigand², Jon Clardy³, Dyann F. Wirth¹

¹Harvard School of Public Health, Boston, MA, United States, ²Broad Institute of Harvard University and MIT, Cambridge, MA, United States,

³Harvard Medical School, Boston, MA, United States

822

NEW INSIGHT ON ORALLY-ACTIVE ACRIDONE ANTIMALARIALS: STRUCTURAL AND FUNCTIONAL DIVERSITY

Jane X. Kelly¹, Martin Smilkstein¹, Rolf Winter¹, Rosie Dodean¹, Arba Ager², Dave Hinrichs¹, Mike Riscoe¹

¹Portland VA Medical Center, Portland, OR, United States, ²University of Miami, Miami, FL, United States

823

IDENTIFYING NOVEL DRUG TARGETS FOR *PLASMODIUM FALCIPARUM* THYMIDYLATE SYNTHASE DIHYDROFOLATE REDUCTASE

Tina Dasgupta, Karen S. Anderson

Yale University, New Haven, CT, United States

(ACMCIP Abstract)

824

DISCOVERY OF POTENT, SPECIES-SELECTIVE INHIBITORS OF *PLASMODIUM FALCIPARUM* DIHYDROOROTATE DEHYDROGENASE THAT POSSESS ANTIMALARIAL ACTIVITY

Vishal Patel¹, Michael L. Booker², Jon Clardy¹, Dyann F. Wirth³

¹Harvard Medical School, Boston, MA, United States, ²Genzyme

Corporation, Waltham, MA, United States, ³Harvard School of Public Health, Boston, MA, United States

(ACMCIP Abstract)

825

NEW GENOME-BASED DRUG TARGET IDENTIFICATION PLATFORM FOR *PLASMODIUM*

Jian Sun, Xuebin Zhang, Lee A. Bulla

Biological Targets, Inc., Pilot Point, TX, United States

(ACMCIP Abstract)

826

ANTIMALARIAL PYRIDONES: *IN VITRO* PHARMACODYNAMIC STUDIES

Esperanza Herreros, Jaume Vidal, Maria J. Almela, Maria Roncales, Pedro Torres, Sonia Lozano, Marina del Rosal, Domingo Gargallo

GlaxoSmithKline, Tres Cantos, Spain

(ACMCIP Abstract)

Malaria – Drug Resistance

827

HAPLOTYPE PROFILING OF SP-RESISTANT STRAINS OF *PLASMODIUM FALCIPARUM* FROM KILIFI, KENYA, 1987-2006

Laura K. Certain¹, Marnie R. Briceno¹, Alexis M. Nzila², **Carol Hopkins Sibley**¹

¹University of Washington, Seattle, WA, United States, ²Kemri/Wellcome Trust Research Program, Centre for Geographic Medicine Research - Coast, Kilifi, Kenya

(ACMCIP Abstract)

828

LONGITUDINAL SURVEY OF ANTIMALARIAL RESISTANCE IN KILIFI, KENYA, 1987-2006Marnie R. Briceno¹, Laura K. Certain¹, Alexis M. Nzila², **Carol Hopkins Sibley**¹¹University of Washington, Seattle, WA, United States, ²Kemri/Wellcome Trust Research Program, Centre for Geographic Medicine Research - Coast, Kilifi, Kenya

(ACMCIP Abstract)

829

THE IMPACT OF INCOMPLETE WITHDRAWAL OF CHLOROQUINE USE ON THE RATE OF DECLINE IN CHLOROQUINE RESISTANT PLASMODIUM FALCIPARUM PARASITES UNDER DIFFERENT TRANSMISSION CONDITIONS**Michelle L. Gatton**¹, Qin Cheng²¹Queensland Institute of Medical Research, Herston, Australia, ²Australian Army Malaria Institute, Brisbane, Australia

830

EFFICACY OF INTERMITTENT TREATMENT WITH SULFADOXINE-PYRIMETHAMINE ALONE OR SULFADOXINE-PYRIMETHAMINE PLUS ARTESUNATE FOR PREVENTION OF PLACENTAL MALARIA IN TANZANIA**John R. MacArthur**¹, Abdunoor M. Kabanywany², Abdullah Baja², Vera Juma², Charles Maswi², Peter B. Bloland¹, S. Patrick Kachur¹, Salim Abdulla²¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Centers for Disease Control and Prevention/Ilfakara Health Research and Development Centre Malaria Programme in Tanzania, Dar-es-Salaam, United Republic of Tanzania

831

PFNHE POLYMORPHISM IN WILD ISOLATES OF P. FALCIPARUM FROM DIFFERENT CONTINENTS WITH A LOW SENSITIVITY TO QUININE**Stephane Pelleau**¹, Jacques Le bras², Frederic Arieu³, Sandra Corre¹, Yacine Seck¹, Phawath Lim³, Ndeye Bob Sakha¹, Ronan Jambou¹¹Institut Pasteur de Dakar, Dakar, Senegal, ²Hopital Bichat Claude Bernard, Paris, France, ³Institut Pasteur du Cambodge, Phnom Penh, Cambodia

(ACMCIP Abstract)

832

EXAMINATION OF MOLECULAR MARKERS OF RESISTANCE IN ARTEMISININ COMBINATION THERAPY (ACT) FAILURES FOUND ALONG THE THAI/CAMBODIAN BORDER**Kurt E. Schaecher**, Harald Noedl, Anintita Laoboonchai, Mark Fukuda

Armed Forces Research Institute of Research, Bangkok, Thailand

833

CHLOROQUINE - RESISTANCE MOLECULAR MARKERS (PF CRT T76 AND PFMDR-1 Y86) AND AMODIAQUINE RESISTANCE IN BURKINA FASO**Halidou Tiinto**¹, Guekoun Lougué², Issaka Zongo³, Robert Tinga Guiguemdé², Umberto D'Alessandro⁴, Jean Bosco Ouédraogo¹¹IRSS/Centre Muraz, Bobo Dioulasso, Burkina Faso, ²Centre Muraz, Bobo Dioulasso, Burkina Faso, ³IRSS, Bobo Dioulasso, Burkina Faso, ⁴Institute of Tropical Medicine, Antwerp, Belgium

834

STABLE RELATIONSHIP BETWEEN MOLECULAR MARKERS FOR SULFADOXINE-PYRIMETHAMINE RESISTANCE AND CLINICAL OUTCOMES AS EFFICACY DECLINES**Matthew B. Laurens**¹, Amber D. Gaither², Fraction K. Dzinjalama³, Phillip C. Thesing¹, Terrie E. Taylor⁴, Christopher V. Plowe¹, Miriam K. Laufer¹¹University of Maryland School of Medicine, Baltimore, MD, United States,²University of Maryland Baltimore County, Catonsville, MD, United States,³University of Malawi College of Medicine, Blantyre, Malawi, ⁴Michigan State University, East Lansing, MI, United States

835

IN VITRO ANTIMALARIAL DRUG RESPONSE OF FRESH P. FALCIPARUM ISOLATES FROM MALI**Souleymane Dama**¹, Bakary Fofana¹, Bakary Sidibe¹, Demba Dembele¹, Sekou Toure¹, Jean Bosco Ouedraogo², Ogobara K. Doumbo¹, Abdoulaye A. Djimde¹¹University of Bamako, Bamako, Mali, ²Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso

836

AN ABCG HOMOLOGUE GENE IN MULTI-DRUG RESISTANT PLASMODIUM YOELII**Ivan Ferrer-Rodriguez**¹, Bárbara González¹, Glenda Rodríguez¹, Edalish Gascot¹, Gloriene González¹, Adelfa E. Serrano²¹Inter American University of Puerto Rico, Bayamón, PR, United States,²Department of Microbiology and Medical Zoology, University of Puerto Rico, School of Medicine, San Juan, PR, United States

837

COLOMBIAN NETWORK FOR SURVEILLANCE OF P. FALCIPARUM IN VITRO SUSCEPTIBILITY TO ANTIMALARIAL DRUGS**Diego Echeverry**¹, Samantha Aponte¹, Claudia Quelal², Dario Ibarguen³, Mariela Huertas³, Melisa Rios⁴, Luz Mila Murcia⁴, Ligia del Pilar Pérez⁴, Pilar Pérez², Zulma Bejarano³, Pedro Gil⁵, Anders Björkman⁵, Lyda Osorio¹¹International Center for Medical Research and Training (CIDEIM), Cali, Colombia, ²Control de Vectores-Instituto Departamental de Salud de Nariño, Tumaco, Colombia, ³Laboratorio Departamental-DASALUD Chocó, Quibdo, Colombia, ⁴Secretaría de Salud del Amazonas, Leticia, Colombia, ⁵Malaria Research laboratory-Karolinska Institute, Stockholm, Sweden

838

DISTINCTION OF RECRUDESCENCE AND RE-INFECTION BY MSP2 GENOTYPING: AN EMPIRICAL STANDARDIZATION OF CLASSIFICATION CRITERIA**Petrica Rouse**¹, Mtawa Mkulama², Philip E. Thuma², Sungano Mharakurwa²¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²The Malaria Institute at Macha, Choma, Zambia

839

ASSESSMENT OF EXPRESSION OF THE *PLASMODIUM FALCIPARUM* CHLOROQUINE RESISTANCE TRANSPORTER GENE (PFCRT) IN THE ASEXUAL STAGES OF MALARIA PARASITES USING REAL-TIME PCR**Tunika I. Okatcha, Donald J. Krogstad**

Tulane University, New Orleans, LA, United States

Malaria - Epidemiology

840

GENETIC DIVERSITY OF MEROZOITE SURFACE PROTEIN-1 GENE OF THE KOREAN ISOLATES OF *PLASMODIUM VIVAX***Eun Taek Han**¹, Jun Hu Chen¹, Jong Yil Chai²¹Department of Parasitology Kangwon National University College of Medicine, Chuncheon-si, Gangwon-do Republic of Korea, ²Department of Parasitology and Tropical Medicine, Seoul National University College of Medicine, Seoul, Republic of Korea

841

ZAMBIAN INDOOR RESIDUAL SPRAYING (IRS) PROGRAM: A GEOGRAPHIC INFORMATION SYSTEM (GIS) TO SUPPORT IRS PLANNING AND MANAGEMENT**Christopher Lungu**¹, Chadwick Sikaala¹, Brian Chirwa¹, Mercy Mwanza¹, Chilandu Mukuka¹, John M. Miller²¹Zambia Ministry of Health, Lusaka, Zambia, ²PATH, Seattle, WA, United States

842

ESTABLISHMENT AND STRENGTHENING OF SITES FOR MALARIA VACCINE TRIALS IN KOROGWE DISTRICT, TANGA REGION, NORTH-EAST TANZANIA: DSS, MALARIA SURVEILLANCE, MALARIA EPIDEMIOLOGY AND HUMAN IMMUNE RESPONSES TO MSP3**Bruno P. Mmbando**, Method D. Segeja, Deus Ishengoma, John P. Lusingu, Hamisi A. Msangeni, Samwel H. Sembuche, Misago Seth, Filbert Francis, Ezekiel K. Malecela, Juma A. Akida, Rashidi Madebe, Masunga M. Chille, Johari Sadi, Acleus S. Rutta, Mathias L. Kamugisha, Martha M. Lemnge

National Institute for Medical Research, Tanga, United Republic of Tanzania

843

USE OF PREVENTIVE MEASURES FOR MALARIA AMONG WOMEN DELIVERING IN A RURAL DISTRICT HOSPITAL IN NORTH-EASTERN TANZANIA**John P. Lusingu**¹, Baliyima Lelo¹, Bruno P. Mmbando¹, Lasse S. Vestergaard², Andrew Y. Kitua³, Martha M. Lemnge¹, Thor G. Theander⁴¹National Institute for Medical Research, Tanga, United Republic of Tanzania, ²Serum Statens Institute, Copenhagen, Denmark, ³National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ⁴CMP, University of Copenhagen, Copenhagen, Denmark

844

OPTIMIZING MALARIA CONTROL SUPPLY SYSTEM PLANNING AND MANAGEMENT FOR SCALING UP NATION-WIDE ITN DISTRIBUTION**Paul C. Libiszowski**¹, Cecelia Katebe², Kafula Silumbe³, John Miller⁴, Abdirahman Mohamed⁴, Fay Venegas⁴, Richard W. Steketee¹¹PATH, Ferney-Voltaire, France, ²Zambia Ministry of Health, Lusaka, Zambia, ³PATH-MACEPA, Lusaka, Zambia, ⁴PATH, Seattle, WA, United States

845

THE COUNTER-INTUITIVE INFLUENCE OF SOCIAL ECONOMIC STATUS AND EDUCATION LEVEL UPON MALARIA PREVALENCE: ARE RICHER PEOPLE AT GREATER RISK OF INFECTION?**Yvonne Geissbühler**¹, Khadija Kannady², Prosper Chaki³, Nicodem Govella³, Deo Mtasiwa⁴, Steven Lindsay⁵, Ulrike Fillinger⁵, Marcel Tanner¹, Marcia Castro⁶, Gerry Killeen³¹Swiss Tropical Institute, Basel, Switzerland, ²Dar es Salaam Urban Malaria Control Programme, Dar es Salaam, United Republic of Tanzania, ³Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ⁴Dar es Salaam City Council, Dar es Salaam, United Republic of Tanzania, ⁵Durham University, Durham, United Kingdom, ⁶Harvard University, Boston, MA, United States

846

THE AGE-RELATED PATTERN OF INFECTIOUSNESS WITH *P. FALCIPARUM* ASSESSED BY MEMBRANE FEEDING ASSAYS: ASSOCIATION WITH SEXUAL STAGE-SPECIFIC ANTIBODIES OF POPULATIONS LIVING UNDER NATURAL MALARIA TRANSMISSION PRESSURE IN BURKINA FASO**André Lin Ouedraogo**¹, Awa Gnémé¹, Edith Ilboudo-Sanogo¹, Roeffen Will², Petra Schneider², Jan Peter Verhave², Issa Nébédé¹, Nadine Cuzin-Ouattara¹, Robert Sauerwein²¹Centre National de Recherche et de Formation sur le paludisme (CNRFP), Ouagadougou, Burkina Faso, ²Medical Microbiology, Radboud University Medical Centre, Nijmegen, The Netherlands

(ACMCIP Abstract)

847

USING DENATURING HPLC TO GENOTYPE *P. FALCIPARUM* GENES - APPLICATION TO THE VACCINE CANDIDATE PFMSP3**Stephen J. Jordan, Michael R. Crowley, OraLee H. Branch, Julian C. Rayner**

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

848

THE DAR ES SALAAM URBAN MALARIA CONTROL PROGRAMME: EARLY LESSONS AFTER ONE YEAR OF SYSTEMATIC LARVICIDING

Khadija Kannady¹, Ulrike Fillinger², Yvonne Geissbühler³, Prosper Chaki⁴, Stefan Dongus³, Nicodem Govella⁴, Deo Mtasiwa⁵, Hassan Mshinda⁴, Marcel Tanner³, Steven Lindsay², Marcia Castro⁶, Gerry Killeen⁴

¹Dar es Salaam Urban Malaria Control Programme, Dar es Salaam, United Republic of Tanzania, ²Durham University, Durham, United Kingdom, ³Swiss Tropical Institute, Basel, Switzerland, ⁴Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ⁵Dar es Salaam City Council, Dar es Salaam, United Republic of Tanzania, ⁶Harvard University, Boston, MA, United States

849

CAN RIVER BLINDNESS VILLAGE WORKERS IMPROVE THE QUALITY OF LLIN DISTRIBUTION? A MOSQUITO NET COVERAGE AND MALARIA PREVALENCE IN OROMIYA AND SNNP REGIONS OF ETHIOPIA, 2006-2007

Patricia Graves¹, Yeshewamebrat Ejigsemahu², Estifanos Biru², Aryc Mosher¹, Jeremiah Ngondi¹, Teshome Gebre², Tekola Endeshaw², Paul Emerson¹, Afework Hailemariam³, Frank O. Richards¹

¹Carter Center, Atlanta, GA, United States, ²Carter Center, Addis Ababa, Ethiopia, ³Federal Ministry of Health, Addis Ababa, Ethiopia

850

WITHIN-HOST AND POPULATION-LEVEL GENETIC DIVERSITY OF *PLASMODIUM VIVAX* IN PERU

Patrick L. Sutton¹, Simon Kang'a², Jean N. Hernandez³, Emilio F. Merino², Carlos E. Vidal⁴, Jane Carlton², OraLee H. Branch¹

¹University of Alabama at Birmingham, Department of Medicine, Birmingham, AL, United States, ²University of New York, Department of Medical Parasitology, New York, NY, United States, ³Universidad Nacional de la Amazonia Peruana, Iquitos, Peru, ⁴Ministerio de Salud, Direccion de Salud-Loreto, Iquitos, Peru

851

SPATIAL ASPECTS OF MALARIA CONTROL WITH LARVICIDES AND ENVIRONMENTAL MANAGEMENT IN DAR ES SALAAM, TANZANIA

Marcia C. Castro¹, Khadija Kannady², Burton H. Singer³, Deo Mtasiwa², Hassan Mshinda⁴, Marcel Tanner⁵, Steve W. Lindsay⁶, Ulrike Fillinger⁶, Gerry F. Killeen⁴

¹Harvard School of Public Health, Boston, MA, United States, ²Dar es Salaam City Council, Dar es Salaam, United Republic of Tanzania, ³Princeton University, Princeton, NJ, United States, ⁴Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ⁵Swiss Tropical Institute, Basel, Switzerland, ⁶Durham University, Durham, United Kingdom

852

CIRCUMSPOROZOITE AND MSP1 POLYMORPHISM AMONG *PLASMODIUM VIVAX* ISOLATES FROM SOUTHERN MEXICO

Lilia Gonzalez-Ceron¹, Jose A. Nettel-Cruz¹, Ciro Montero-Solis¹, Frida Santillan¹, Marco A. Sandoval¹, Rosa Gomez²

¹National Institute for Public Health, Tapachula, Chiapas, Mexico, ²National Institute for Public Health, Cuernavaca, Mor, Mexico

853

GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* IN SITES WITH VARYING TRANSMISSION PATTERNS IN A WESTERN KENYA HIGHLAND

David M. Menge¹, Kacey C. Ernst², John Vulule³, Chandy C. John¹

¹Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota, Minneapolis, MN, United States, ²University of Michigan School of Public Health, Ann Arbor, MI, United States, ³Center for Vector Biology and Control Research, Kenya Medical Research Institute, Kisumu, Kenya

Malaria – Molecular Biology

854

IMPLICATIONS OF GENOME WIDE ALLELIC DIVERSITY SCANS FOR HIGH RESOLUTION GENETIC MAPPING IN *PLASMODIUM FALCIPARUM*

Sajeewani U. Samarakoon, Jigar J. Patel, Michael T. Ferdig

University of Notre Dame, South Bend, IN, United States

855

CHARACTERISATION OF THE MITOCHONDRIAL ATP SYNTHASE/HYDROLASE COMPLEX OF THE MODEL PROTIST *TETRAHYMENA THERMOPHILA*

Praveen Balabaskaran Nina, Michael W. Mather, Akhil B. Vaidya

Drexel University College of Medicine, Philadelphia, PA, United States

(ACMCIP Abstract)

856

PROSPECTIVE STUDIES OF CHILDREN WITH ASYMPTOMATIC *P. FALCIPARUM* INFECTION IN MISSIRA, MALI: GENETIC HETEROGENEITY REVEALED BY SEQUENCING

B. M. Mack¹, Ousmane Aliou Koita², Mamadou Weleba Bagayoko², Aliou Coulibaly², A. Sissako², J. M. Colborn¹, Donald J. Krogstad¹

¹Tulane University, New Orleans, LA, United States, ²University of Bamako Faculty of Science, Bamako, Mali

857

MITOCHONDRIAL ATPASE ACTIVITY IN INTRAERYTHROCYTIC MALARIA PARASITES

Michael W. Mather, Joanne M. Morrissey, Praveen Balabaskaran Nina, Akhil B. Vaidya

Drexel University College of Medicine, Philadelphia, PA, United States

(ACMCIP Abstract)

858

ASSESSING THE ROLE OF MITOCHONDRIAL ELECTRON TRANSPORT IN *IN VIVO* SURVIVAL OF *PLASMODIUM BERGHEI*

Suresh M. Ganesan, Joanne M. Morrissey, Heather J. Painter, Mike W. Mather, Akhil B. Vaidya

Drexel University College of Medicine, Philadelphia, PA, United States

(ACMCIP Abstract)

859

CAN THE MITOCHONDRIAL GENOME IN ERYTHROCYTIC *PLASMODIUM FALCIPARUM* BE DEPLETED?

Hangjun Ke, Heather J. Painter, Praveen Balabaskaran, Suresh Ganesan, Joanne M. Morrisey, Michael W. Mather, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

(ACMCIP Abstract)

860

COMPARATIVE STUDY OF THE GENETIC DIVERSITY OF THE RHOPTRY-ASSOCIATED PROTEIN 1 (RAP-1) IN *PLASMODIUM SPP.*

Maria A. Pacheco, Elizabeth M. Ryan, **Ananias A. Escalante**
Arizona State University, Tempe, AZ, United States

(ACMCIP Abstract)

861

CHARACTERIZATION OF *PLASMODIUM FALCIPARUM* SPOROZOITE GENE PFA0490W

Michael M. Kariuki, Ruguang Ou, Alexis N. LaCrue, Reneè N. Roberts, Maggie S. Schlarman, Brenda T. Beerntsen
University of Missouri-Columbia, Columbia, MO, United States

(ACMCIP Abstract)

862

STRUCTURE AND FUNCTION OF *PLASMODIUM FALCIPARUM* MALATE DEHYDROGENASE: ANALYSIS OF N-TERMINAL DINUCLEOTIDE BINDING FOLD BY SITE-DIRECTED MUTAGENESIS

Anupam Pradhan, Prashant V. Desai, Mitchell A. Avery, Larry A. Walker, **Babu L. Tekwani**
School of Pharmacy, University of Mississippi, University, MS, United States

(ACMCIP Abstract)

863

POLYMORPHISMS OF *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN IN ISOLATES FROM THAI PATIENTS

Panita Gosi¹, Mark Fukuda¹, Kurt Schaecher¹, David Lanar², Srisin Khusmith³, Thareerat Khalambaheti³, Scott Miller²

¹*United States Army Medical Component-Armed Forces Research Institute of the Medical Sciences, Bangkok, Thailand*, ²*Walter Reed Army Institute of Research, Silver Spring, MD, United States*, ³*Mahidol University, Bangkok, Thailand*

Mosquitoes – Molecular Genetics

864

FIRST REPORT ON POPULATION STRUCTURE FOR THE LEISHMANIA MAJOR VECTOR, *PHLEBOTOMUS PAPTASI* SANDFLY USING MICROSATELLITE LOCI

Omar Y. Hamarshah, Wolfgang Presber, Gabriele Schöonian
Charite Universitätsmedizin Berlin, berlin, Germany

866

MOLECULAR DIFFERENTIATION OF ANOPHELINE SPECIES FROM NORTHEAST PERU

Ryan Matson¹, Carlos Tong², Margaret Kosek³, Robert Gilman³, David Florin⁴, Joseph Vinetz¹

¹*University of California, San Diego, La Jolla, CA, United States*, ²*Navy Medical Research Center Detachment, Iquitos, Peru*, ³*Johns Hopkins School of Public Health, Baltimore, MD, United States*, ⁴*Navy Medical Research Center Detachment, Lima, Peru*

867

GENETIC RELATIONSHIPS AMONG *Aedes aegypti* COLLECTIONS IN VENEZUELA AS DETERMINED BY SINGLE NUCLEOTIDE AND DELETION-INSERTION POLYMORPHISMS

Ludmel Urdaneta-Marquez¹, William C Black¹, Flor Herrera², Yasmin Rubio-Palis², Christopher Bosio¹

¹*Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, CO, United States*, ²*Centro de Investigaciones Biomedicas (BIOMED), Universidad de Carabobo-Nucleo Aragua, Maracay, Venezuela*

868

DENSITY AND SPECIES COMPOSITION OF *ANOPHELES GAMBIAE S.L* IN BANAMBANI, MALI

Mahamoudou B. Toure¹, Nickolas Manoukis², Boubacar Guindo³, Ibrahim M. Sissoko³, Sekou F. Traore³, Seydou Doumbia³, Charles E. Taylor¹

¹*UCLA, Los Angeles, CA, United States*, ²*National Institutes of Health, Washington DC, United States*, ³*MRTC - FMPOS, Bamako, Mali*

869

A PHYSICAL MAP FOR THE ASIAN MALARIA VECTOR *ANOPHELES STEPHENSI*

Ai Xia¹, Maria V. Sharakhova¹, Zhijian Tu¹, Yogesh S. Shouche², Igor V. Sharakhov¹

¹*Virginia Tech, Blacksburg, VA, United States*, ²*National Centre for Cell Science, Pune, India*

870

GENETIC LINKAGE MAPPING IN THE WEST NILE VIRUS VECTOR *CULEX TARSALIS*

Meera Venkatesan¹, Morgan Sellers², Jason L. Rasgon¹

¹*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ²*Johns Hopkins University, Baltimore, MD, United States*

871

PRELIMINARY DATA ON INSERTION POLYMORPHISMS OF SINE200 ALONG THE 2L CHROMOSOMAL ARM IN *ANOPHELES GAMBIAE*

Emiliano Mancini¹, Federica Santolamazza¹, Yumin Qi², Zhijian Tu², Alessandra della Torre¹

¹*Dipartimento di Scienze di Sanità Pubblica, Università di Roma "La Sapienza", Rome, Italy*, ²*Department of Biochemistry, Virginia Polytechnic Institute and State University, Blacksburg, VA, United States*

872

PATTERNS OF SELECTION ON ANTI-MALARIAL IMMUNE GENES: ADAPTIVE EVOLUTION IN *LRIM1* IN *ANOPHELES ARABIENSIS*

Michel A. Slotman¹, Aristeidis Parmakelis¹, Jonathon C. Marshall¹, Nikolaos Poulakakis¹, Parfait H. Awono-Ambene², Christophe Antonio-Nkondjio², Frederic Simard², Adalgisa Caccone¹, Jeffrey R. Powell¹

¹Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT, United States, ²Organisation de Coordination pour la Lutte Contre les Endémies en Afrique Centrale, Yaounde, Cameroon

873

DIFFERENTIAL GENE EXPRESSION AMONG SUSCEPTIBLE AND REFRACTORY STRAINS OF *Aedes aegypti* MOSQUITOES FOLLOWING DENGUE 2 INFECTED BLOOD MEALS

Irene N. Kasumba, David Severson

Center for Global Health and Infectious Diseases, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States

874

COMPARATIVE TIME COURSE GENE-EXPRESSION PROFILING IN DENGUE SUSCEPTIBLE (MOYO-S) AND REFRACTORY (MOYO-IN DRY) STRAINS OF *Aedes aegypti* IN RESPONSE TO DENGUE INFECTION

Chitra Chauhan, Brent Harker, Becky deBruyn, Consuelo Gomez-Machorro, Diane Lovin, Jeanne Romero-Severson, David W. Severson

The Center for Global Health and Infectious Diseases, University of Notre Dame, Notre Dame, IN, United States

875

IMPLICATIONS OF HYBRIDIZATION, FEEDING BEHAVIOR AND PARITY RATES OF *Culex pipiens* ON WEST NILE VIRUS ACTIVITY AT STABLE ENZOOTIC STUDY SITES

Linda-Lou O'Connor¹, John B. Gingrich¹, Dina Fonseca², Thomas R. Unnasch³

¹University of Delaware, Newark, DE, United States, ²Rutgers University, New Brunswick, NJ, United States, ³University of Alabama at Birmingham, Birmingham, AL, United States

876

POLYMORPHISM IN THE GENE ENCODING *GAMBICIN* AND *PLASMODIUM FALCIPARUM* INFECTION SUSCEPTIBILITY IN *ANOPHELES GAMBIAE*

Rodrigo Gonzalez-Cerdas¹, Michelle M. Riehle², Kenneth D. Vernick², Jen Hume¹, Jose Ribeiro¹, Tovi Lehmann¹

¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Center for Microbial and Plant Genomics and Department of Microbiology, University of Minnesota, St. Paul, MN, United States

(ACMCIP Abstract)

877

MOLECULAR IDENTIFICATION OF THE MEMBERS OF THE *ANOPHELES ANNULARIS* GROUP OF MOSQUITOES (DIPTERA: CULICIDAE) USING RIBOSOMAL DNA ITS2 AND DOMAIN-3

Mohammad T. Alam¹, Manoj K. Das², Vas Dev³, Yagya D. Sharma¹

¹All India Institute of Medical Sciences, New Delhi, India, ²National Institute of Malaria Research (Field Station), Ranchi, India, ³National Institute of Malaria Research (Field Station), Sonapur, India

878

DEMOGRAPHIC HISTORY CAN INFLUENCE PRESENT ESTIMATES OF GENE FLOW: A CASE STUDY OF THE WEST NILE VIRUS VECTOR *Culex tarsalis*

Jason L. Rasgon, Meera Venkatesan, M. Claire Hauer

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

Mosquitoes – Vector Biology

879

FREQUENCY OF MULTIPLE HUMAN BLOODMEALS TAKEN BY FEMALE *ANOPHELES ARABIENSIS* MOSQUITOES IN MACHA, ZAMBIA

Laura C. Norris¹, Christen M. Fornadel¹, Rebekah J. Kent², Douglas E. Norris¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States

880

PASSERINE FILARIASIS AND THE RAPID SPREAD OF WEST NILE VIRUS - A REAL-LIFE EXAMPLE OF MICROFILARIAL ENHANCEMENT OF ARBOVIRAL TRANSMISSION BY MOSQUITOES?

Jefferson A. Vaughan¹, Jeffrey A. Bell¹, Christina M. Brewer¹, Vasyl V. Tkach¹, Hassan K. Hassan², Thomas R. Unnasch², Michael J. Turell³

¹University of North Dakota, Grand Forks, ND, United States, ²University of Alabama, Birmingham, AL, United States, ³United States Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States

881

IDENTIFYING THE GEOGRAPHICAL CONVERGENCE OF *ANOPHELES* AND *PLASMODIUM*

Desmond H. Foley, Leopoldo M. Rueda, Richard C. Wilkerson

Walter Reed Army Institute of Research, Suitland, MD, United States

882

GENETIC POPULATION STRUCTURE IN THE MALARIA VECTOR ANOPHELES MARAJOARA IN NORTHEASTERN SOUTH AMERICA

Jan E. Conn¹, Cong Li², Marinete M. Povoa³, Maria Anice Sallum⁴, Jose Bento Lima⁵, Richard C. Wilkerson⁶

¹Wadsworth Center, New York State Department of Health, Slingerlands, NY, United States, ²Department of Entomology, Division of Communicable Diseases and Immunology, Walter Reed Army Institute of Research, Suitland, MD, United States, ³Programa de Pesquisas em Malaria, Instituto Evandro Chagas, Belem, Brazil, ⁴Departamento de Epidemiologia, Universidade de Sao Paulo, Sao Paulo, Brazil, ⁵Departamento de Entomologia, Fundacao Oswaldo Cruz, Rio de Janeiro, Brazil, ⁶Department of Entomology, Division of Communicable Diseases and Immunology, Walter Reed Army Institute of Research, Suitland, MD, United States

883

MORTALITY DECELERATION IN LABORATORY REARED, ADULT ANOPHELES STEPHENSI MOSQUITOES

Jefferson A. Vaughan¹, Jeffrey A. Bell¹, Robert H. Zimmerman²

¹University of North Dakota, Grand Forks, ND, United States, ²FMEL, University of Florida, Vero Beach, FL, United States

884

RISK FACTORS FOR THE PRESENCE OF AEDES AEGYPTI IN LIMA, PERU

Carmen Flores-Mendoza¹, Fernando Chapilliquen², Luis Cubillas³, Walter Leon⁴, Pablo Villaseca⁴, Fanny Castro¹, Juan Perez¹, Ruth Centeno¹, Karyn Cruz⁵, Julio Lacma⁵, Cecilia Montes-Jave⁶, Willy Lescano¹, David Florin¹

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Direccion General de Epidemiologia, Ministerio de Salud, Peru, ³Direccion General de Salud Lima Norte, Ministerio de Salud, Peru, ⁴Instituto Nacional de Salud, Lima, Peru, ⁵Universidad Nacional Federico Villareal, Lima, Peru, ⁶Naval Medical Research Center Detachment, Lima, Peru

885

IMMUNE RESPONSIVE SERINE PROTEASE FROM ANOPHELES GAMBIAE PROMOTES PLASMODIUM FALCIPARUM DEVELOPMENT

Janneth Rodrigues, Carolina Barillas-Mury

National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

886

BLOOD MEAL PREFERENCE AND ISOLATION OF ALPHAVIRUSES AND FLAVIVIRUSES FROM MOSQUITOES IN THE CAUCA VALLEY, COLOMBIA, SOUTH AMERICA

Ian Mendenhall¹, Carlos Valderamma², Richard Johnston-Gonzalez³, William Cardona², Olga Barón⁴, Dawn Wesson¹, Clara Ocampo⁴

¹Tulane University - School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²Wildlife Conservation Society, Cali, Colombia, ³Calidris, Cali, Colombia, ⁴Centro Internacional de Entrenamiento e Investigaciones Médicas, Cali, Colombia

887

A NEW ISOLATE OF BACILLUS THURINGIENSIS SUBSP. ISRAELENIS HIGHLY EFFECTIVE AGAINST ANOPHELES GAMBIAE, AEDES AEGYPTI AND CULEX PIPIENS

Mohamed Ibrahim, Lee A. Bulla
Biological Targets, Inc., Pilot Point, TX, United States

Mosquitoes – Vector Biology - Epidemiology

888

SPATIOTEMPORAL RISK PATTERNS AND ECOEPIDEMIOLOGY OF WEST NILE VIRUS DISEASE, COLORADO, 2002-2006

Anna M. Winters¹, Chester G. Moore¹, Andrew M. Meyer¹, W. John Pape², Lars Eisen¹

¹Colorado State University, Fort Collins, CO, United States, ²Communicable Disease Program, Colorado Department of Public Health and Environment, Denver, CO, United States

889

A NOVEL LETHAL TRAP FOR GRAVID AEDES AEGYPTI AND AEDES ALBOPICTUS

Charles Apperson¹, Darek Czokajlo², Philipp Kirsch², Luma Abu Ayyash¹, Dawn Wesson³, Coby Schal¹

¹North Carolina State University, Raleigh, NC, United States, ²APTIV, Inc., Portland, OR, United States, ³Tulane University, New Orleans, LA, United States

890

DETECTING WUCHERERIA BANCROFTI IN AEDES POLYNESIENSIS MOSQUITOES FROM AMERICAN SAMOA: A COMPARISON OF PCR WITH HAEMALUM STAINING AND DISSECTION

Eric W. Chambers¹, Melissa F. Avery¹, Mark A. Schmaedick², Patrick J. Lammie¹, Thomas R. Burkot¹

¹Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Division of Community and Natural Resources, American Samoa Community College, Pago Pago, American Samoa

891

INFLUENCE OF MAIZE POLLEN ON ANOPHELES PRODUCTIVITY AND MALARIA TRANSMISSION DYNAMICS

Richard J. Pollack¹, Rebecca M. Robich¹, Anthony E. Kiszewski¹, Asnakew Kebede², Yemane Ye-Ebiyo³, Afework T. Hailemariam⁴, Michael DiBlasi², James McCann², Andrew Spielman¹

¹Harvard School of Public Health, Boston, MA, United States, ²Boston University, Boston, MA, United States, ³Center for National Health Development in Ethiopia, Addis Ababa, Ethiopia, ⁴Federal Ministry of Health, Addis Ababa, Ethiopia

892

USE OF FREE MAPPING TOOLS TO SUPPORT THE DEVELOPMENT OF A LOCAL DENGUE INFORMATION SYSTEM

Darwin Elizondo-Quiroja, Saul Lozano-Fuentes, Barry Beaty, Lars Eisen

Colorado State University, Fort Collins, CO, United States

893

PRELIMINARY ANALYSIS OF SPATIAL PATTERNS OF DENGUE ACTIVITY IN THREE STATES IN MEXICO

Saul Lozano-Fuentes¹, Darwin Elizondo-Quiroja¹, Jose Farfan-Ale², Maria Alba Lorono-Pino², Ildefonso Fernandez-Salas³, Julian Garcia-Rejon², Maria del Rosario Najera-Vazquez⁴, Salvador Gomez-Carro⁴, Marco Dominguez-Galera⁵, Pedro Mis-Avila⁵, Jose Joaquin Calderon-Martinez⁵, Barry Beaty¹, Lars Eisen¹

¹Colorado State University, Fort Collins, CO, United States, ²Universidad Autonoma de Yucatan, Merida, Mexico, ³Universidad Autonoma de Nuevo Leon, Monterrey, Mexico, ⁴Servicios de Salud Yucatan, Merida, Mexico, ⁵Servicios de Salud Quintana Roo, Chetumal, Mexico

894

PROFILE OF MOSQUITO LARVAL HABITATS IN URBAN PUNTARENAS, COSTA RICA

Adriana Troyo¹, Olger Calderon-Arguedas², Adrian Avendaño², Mayra E. Solano², Douglas O. Fuller¹, John C. Beier¹

¹University of Miami, Coral Gables, FL, United States, ²Universidad de Costa Rica, San Jose, Costa Rica

895

ITN INTERVENTIONS ACROSS ENVIRONMENTAL AND TRANSMISSION SETTINGS: THE FUNDAMENTAL ROLE OF SPATIAL CONNECTIVITY IN DETERMINING EFFECTIVENESS

Manish A. Desai¹, Joseph N. Eisenberg²

¹University of California at Berkeley, Berkeley, CA, United States, ²University of Michigan, Ann Arbor, MI, United States

896

LANDSCAPE CHARACTERIZATION OF ANOPHELINE LARVAL HABITATS IN MAPANZA, ZAMBIA

Julie Clennon¹, Aniset Kamanga², Philip Thuma², Sungano Mharakurwa², Clive Shiff¹, Christen Fornadel¹, Douglas Norris¹, Gregory Glass¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²The Malaria Institute at Macha, Choma, Zambia

897

EFFICACY OF VECTOAC WG, A *BACILLUS THURINGIENSIS ISRAELENIS* FORMULATION, TO CONTROL DENGUE MOSQUITO VECTORS IN CAMBODIA

To Setha¹, Ngan Chantha¹, Doung Socheat¹, **Seleena Benjamin**²

¹National Malaria Center, Ministry of Health, Phnom Penh, Cambodia, ²Valent BioSciences Corporation, Kuala Lumpur, Malaysia

898

EFFECTS OF RESIDUAL DOMICILIARY SPRAYINGS WITH PYRETHROIDS ON POPULATIONS OF *LUTZOMYIA SPP.* IN AN ENDEMIC AREA OF CARRION'S DISEASE, IN THE NORTHERN FOREST OF PERU

Mario Troyes¹, Nelson Solorzano², Paul E. Pachas³, Carlos Ticona⁴, Fernando Chapilliquen³, Victor Arenas⁴, Roberto Fernandez⁵

¹Jaen Directorate of Health, Cajamarca Department, Peru, ²Caraz Hospital, Ancash Department, Peru, ³General Directorate of Epidemiology-Ministry of Health, Lima, Peru, ⁴San Ignacio Health Center, Cajamarca Department, Peru, ⁵Naval Medical Research Center Detachment, Lima, Peru

Other Bacterial Infections

899

PHYSICAL, CHEMICAL AND MICROBIAL CHARACTERIZATION OF SOME LOCALLY MANUFACTURED CANNED TUNA IN OIL EXPOSED TO THE SUN FOR A LONGER PERIOD

Miriam A. Sagoe¹, Kofi Essel²

¹Noguchi Memorial Institute for Medical Research, Accra, Ghana, ²Food and Drugs Board, Accra, Ghana

900

THE ANTIBIOTIC SUSCEPTIBILITY RATES IN THE GRAM NEGATIVE BACILLI GROWING IN URINE CULTURES AND THE PRESENCE OF EXTENDED SPECTRUM BETA LACTAMAZ (ESBL)

Sukran Kose, Derya Tumer, Gulgun Akkoclu

Tepecik Research and Educational Hospital, Izmir, Turkey

901

BARTONELLA SP. INFECTION OF RED-BACKED VOLES TRAPPED FROM AN INTERIOR ALASKAN SITE WHERE TICKS ARE ABSENT

Kotaro Matsumoto¹, Joseph A. Cook², Heidi K. Goethert¹, Sam R. Telford¹

¹Tufts Cummings School of Veterinary Medicine, North Grafton, MA, United States, ²University of New Mexico Museum, Albuquerque, NM, United States

902

A FATAL OUTCOME TREATING PLEURAL TUBERCULOSIS: IS TREATMENT WORSE THAN THE DISEASE?

Tariq A. Khan, Deborah Asnis, Sumathi Kemisetti

Flushing Hospital Medical Center, Flushing, NY, United States

903

BACTERIAL CONTAMINATION IN CEBICHE PURCHASED FROM RESTAURANTS AND STREET VENDORS IN LIMA, PERU: PRELIMINARY RESULTS

Victor E. Gonzaga¹, Andrés G. Lescano¹, Margarita Molina², William E. Oswald³, Ana I. Gil², Claudia F. Lanata², Héctor H. Garcia⁴, David L. Blazes¹

¹Naval Medical Research Center Detachment (Naval Medical Research Center Detachment), Lima, Peru, ²Instituto de Investigación Nutricional, Lima, Peru, ³Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Department of Microbiology, School of Sciences, Universidad Peruana Cayetano Heredia, Lima, Peru

904

RAPID AND SPECIFIC DIAGNOSTICS OF RICKETTSIAL INFECTIONS BY A PCR-BASED HYBRIDIZATION CHIP ASSAY

Roman Wölfel, Gerhard Dobler

Bundeswehr Institute of Microbiology, Munich, Germany

905

CLASS-SPECIFIC ANTIBODY RESPONSES IN HUMAN BRUCELLA

Hind I. Shaheen, Hanan I. El-Mohamady, Sylvia Ghabour, Mathew Weiner, Isabelle Nakhlla, Adam Armstrong
U.S. Naval Medical Research Unit-3, Cairo, Egypt

906

CASE REPORT: TRAVELER'S BRUCELLA- SPECIFIC IGA AND IGM ANTIBODIES AS EARLY SERODIAGNOSTIC MARKERS OF INFECTION

Hanan Mohamady, Hind I. Shaheen, John Klena, Isabelle Nakhlla, Mathew Weiner, Adam Armstrong
US Naval Medical Research Unit-3, Cairo, Egypt

907

CASE REPORT OF SALMONELLA TYPHI INFECTION IN A U.S. TRAVELER

Mohammed O. Shareef, Gulvahid Shaikh, Tabassum Yasmin
Nassau University Medical Center, East Meadow, NY, United States

908

ACUTE INFECTION CAUSED BY A NOVEL BARTONELLA SPECIES: DESCRIPTION OF THE FIRST THREE HUMAN CASES OF B. TAMIAE -THAILAND

Henry C. Baggett¹, Michael Kosoy², Saithip Sutthirattana¹, Anussorn Sitdhirasdr³, Christina Morway², Kelly Sheff², Scott F. Dowell⁴, Susan Maloney¹, Tamara L. Fisk⁵, Ying Bai², Leonard Peruski¹

¹International Emerging Infections Program, Thailand Ministry of Public Health-U.S. Centers for Disease Control and Prevention Collaboration, Nonthaburi, Thailand, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States, ³Thailand Ministry of Public Health, Nonthaburi, Thailand, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Emory University School of Medicine, Atlanta, GA, United States

909

THE DEVELOPMENT OF AN AGE-STRUCTURED MODEL FOR TRACHOMA TRANSMISSION DYNAMICS AND CONTROL

Manoj Gambhir
Imperial College London, London, United Kingdom

910

PREVALENCE OF BACTERIAL ISOLATES FROM BLOOD CULTURES OF INFANTS ATTENDING PEDIATRIC WARDS IN UNIVERSITY OF BENIN TEACHING HOSPITAL, BENIN CITY, NIGERIA

Francis Oronsaye
University of Benin School of Medicine, Benin City, Edo State, Nigeria

911

HUMAN BRUCELLA ABORTUS INFECTION IN THAILAND: A REPORT OF THE FIRST TWO CASES

Somsak Thamthitawat¹, Teerasak Chuxnum², Henry C. Baggett¹, Kumnuan Ungchusak², Leonard F. Peruski¹, Possawat Jorakate¹, Sathapana Naorat¹, Monaya Ekgat³, Piyada Wangrungrarb⁴, Susan A. Maloney¹

¹International Emerging Infections Program, Nonthaburi, Thailand, ²Bureau of Epidemiology, Ministry of Public Health, Nonthaburi, Thailand, ³National Institute of Animal Health, Department of Livestock Development, Bangkok, Thailand, ⁴National Institute of Health, Ministry of Public Health, Nonthaburi, Thailand

912

A MOUSE DERMAL MODEL TO STUDY EARLY INNATE IMMUNE EVENTS IN THE SKIN AFTER TRANSMISSION OF YERSINIA PESTIS

Christopher F. Bosio, Clayton O. Jarrett, B. Joseph Hinnebusch
Rocky Mountain Laboratories, Hamilton, MT, United States

913

DEVELOPMENT OF REAL-TIME PCR ASSAYS FOR DETECTION AND CHARACTERIZATION OF BARTONELLA SPECIES IN HUMAN AND RODENT BLOOD SAMPLES FROM THAILAND

James M. Colborn, Michael Y. Kosoy
Centers for Disease Control and Prevention, Fort Collins, CO, United States

Pneumonia and Respiratory Infections

914

ECONOMIC BURDEN OF COMMUNITY ACQUIRED PNEUMONIA IN CHILDREN LESS THAN FIVE YEARS OLD IN EGYPT

Mohamed A. Azab
NAMRU-3, Cairo, Egypt

915

COMMUNITY-ACQUIRED NON-TYPHOIDAL SALMONELLA BACTEREMIA AND PATTERNS OF ANTIMICROBIAL RESISTANCE IN THAILAND, 2005-2007

Prasert Salika¹, Leelaowadee Sangsuk², Possawat Jorakate¹, Anek Kaewpan¹, Wanna Wongjindanon¹, Surang Dejsirilert², Somsak Thamthitawat¹, Henry Baggett¹, Susan Maloney¹, **Leonard Peruski**¹
¹International Emerging Infections Program, Bangkok, Thailand, ²Ministry of Public Health, Bangkok, Thailand

916

TOWARDS RAPID DIAGNOSIS OF PULMONARY TUBERCULOSIS IN MALAWIAN PRISONS

Mwai Makoka
University of Malawi College of Medicine, Blantyre, Malawi

917

GROUP A STREPTOCOCCUS PHARYNGITIS AMONG SCHOOLCHILDREN IN BAMAKO, MALI

Mahamadou M. Keita¹, Samba O. Sow¹, Boubou Tamboura¹, Melissa Rosenberg², **Milagritos D. Tapia**², Mariam Samake¹, James Dale³, Karen L. Kotloff²

¹Centre pour le Developpement des Vaccins - Mali, Bamako, Mali,

²University of Maryland School of Medicine, Baltimore, MD, United States,

³University of Tennessee, Memphis, TN, United States

918

ETIOLOGY OF COMMUNITY-AQUIRED PNEUMONIA IN EGYPTIAN CHILDREN LESS THAN FIVE YEARS OLD

Fouad G. Youssef

NAMRU-3, Cairo, Egypt

919

CORRELATION OF HYPERHOMOCYSTEINEMIA AND CHLAMYDIA PNEUMONIAE IGG SEROPOSITIVITY WITH CORONARY ARTERY DISEASE IN A GENERAL POPULATION

Katayoun Vahdat, Seyed Mojtaba Jafari

Professor Haghighi Department of Tropical Medicine, The Persian Gulf Health Research Center/Bushehr University of Medical Sciences, Bushehr, Islamic Republic of Iran

920

DELETION OF CD36 CONFERS PROTECTION AGAINST MYCOBACTERIAL INFECTION

Xioaming Li, **Michael T. Hawkes**, Maryanne Crockett, Angelina Diassiti, Jun Liu, Kevin Kain

McLaughlin-Rotman Centre for Global Health, Departments of Medicine and Medical Genetics and Microbiology, University of Toronto, Toronto, ON, Canada

921

LEGIONELLA PREVALENCE IN SPRING RECREATION AREAS OF TAIWAN

Bing-Mu Hsu¹, Puo-Hua Ma¹, Chien-Shien Chen²

¹National Chung Cheng University, Chia-Yi, Taiwan, ²Tatung University, Taipei, Taiwan

922

PIRFENIDONE AS ADJUNCTIVE THERAPY PROVIDES SURVIVAL ENHANCEMENT IN A LETHAL MURINE MODEL OF SYSTEMIC STREPTOCOCCUS PNEUMONIAE

Edgar M. Musie

University of Virginia, Charlottesville, VA, United States

923

IN VIVO AND IN VITRO EFFICACY OF TA-18 AGAINST HANTAVIRUS INFECTION

Qianjun Li¹, Dong Hoon Chung¹, Yong-Kyu Chu¹, Sidath Kumarapperuma², Yanjie Sun¹, Jeffery Arterburn², William Parker¹, Colleen Jonsson¹

¹Southern Research Institute, Birmingham, AL, United States, ²New Mexico State University, La Cruces, NM, United States

Viruses - Other

924

PERFORMANCE EVALUATION OF SURVEILLANCE AND RAPID RESPONSE TEAMS IN THAILAND

Prabda Prapasiri¹, Wiput Phoolchareon², Yaowaluk Ngoenwiwatkul³

¹Centers for Disease Control and Prevention/IEIP, Nonthaburi, Thailand, ²Thai Health Policy Foundation, Bangkok, Thailand, ³Faculty of Dentistry, Mahidol University, Bangkok, Thailand

925

ETIOLOGIES OF ACUTE FEBRILE ILLNESS IN BISHKEK, KYRGYZSTAN

Sam Yingst¹, Kalya Kasymbekova², Emad Mohareb¹, Magdi Saad¹, Marshall Monteville¹

¹NAMRU-3, Cairo, Egypt, ²Department of State Sanitary and Epidemiological Service, Bishkek, Kyrgyzstan

926

MOSQUITO FEEDING PREFERENCE FOR COLD-BLOODED VERTEBRATES IN ALABAMA

Gregory S. White¹, Hassan K. Hassan¹, Sean Graham², Craig Guyer², **Thomas R. Unnasch**¹

¹University of Alabama at Birmingham, Birmingham, AL, United States, ²Auburn University, Auburn, AL, United States

927

THE MINIMAL DOMAIN OF THE EASTERN EQUINE ENCEPHALITIS VIRUS CAPSID NECESSARY FOR INHIBITION OF HOST GENE EXPRESSION IS REQUIRED FOR VIRAL PATHOGENESIS

Patricia V. Aguilar¹, Lawrence W. Leung¹, Eryu Wang², Scott C. Weaver², Christopher F. Basler¹

¹Mount Sinai School of Medicine, New York, NY, United States, ²University of Texas Medical Branch, Galveston, TX, United States

928

EVALUATION OF THE AOTUS NANCYMAE NEW WORLD MONKEY AS AN ANIMAL MODEL FOR EASTERN EQUINE ENCEPHALITIS

Benjamin J. Espinosa¹, Scott C. Weaver², Slodovan Paessler², Douglas Brinning², Milagros Salazar¹, Tadeusz Kochel¹

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²UTMB Center for Biodefense and Emerging Infectious Diseases, University of Texas Medical Branch, TX, United States

(ACMCIP Abstract)

929

CO-CIRCULATION OF TWO DIFFERENT HANTAVIRUSES IN A HECTARE SIZED MARK-RECAPTURE SITES IN INTERIOR ATLANTIC FOREST IN PARAGUAY

Yong-Kyu Chu¹, Robert Owen², Douglas Goodin³, Linda Allen⁴, Colleen Jonsson¹

¹Southern Research Institute, Birmingham, AL, United States, ²Department of Biological Sciences, Texas Tech University, Lubbock, TX, United States,

³Department of Geography, Kansas State University, Manhattan, KS, United States, ⁴Department of Mathematics and Statistics, Texas Tech University,

Lubbock, TX, United States

930

SEROLOGICAL EVIDENCE FOR URBAN TRANSMISSION OF VENEZUELAN EQUINE ENCEPHALITIS (VEE) VIRUS IN THE IQUITOS, CITY, PERU

A. C. Morrison, C. Rocha, R. Carrión, H. Astete, V. Lopez, K. Escobedo, C. Caray, Dominique Eza, A. Huaman, J. M. Montgomery, Tadeusz Kochel

U.S. Naval Medical Research Center Detachment, Lima, Peru

931

MOLECULAR EPIDEMIOLOGY OF HUMAN HERPESVIRUS 8 IN HIV-POSITIVE PATIENTS WITH KAPOSI'S SARCOMA ATTENDED IN RIBEIRÃO PRETO, BRAZIL

Paula R. Machado, Kleber J. Farias, Luiza A. Castro, **Benedito A. Fonseca**

School of Medicine of Ribeirão Preto, Ribeirão Preto, S.P., Brazil

932

PHYLOGEOGRAPHIC DIVERSITY OF COLORADO SIN NOMBRE VIRUS STRAINS

Mark T. Hughes, Jeffrey B. Doty, Charles H. Calisher, Barry J. Beaty

Colorado State University, Fort Collins, CO, United States

933

PREVENTING PERSON TO PERSON TRANSMISSION OF NIPAH VIRUS: CULTURAL CONTEXT

Rasheda Khan¹, Nazmun Nahar¹, Lauren Blum², M. J. Hossain¹, Emily S. Gurley¹, Stephen Luby¹

¹ICDDR, Dhaka, Bangladesh, ²United States Agency for International Development, Kinshasa, Democratic Republic of the Congo

Poster Session C ACMCIP Abstracts – Molecular, Cellular and Immunoparasitology

727, 775, 780, 785, 789, 792, 798, 799, 800, 801, 82, 84, 86, 88, 823, 824, 825, 826, 827, 828, 831, 846, 855, 857, 858, 859, 860, 861, 862, 876, 928

Burroughs Wellcome Fund – ASTMH Fellowship Committee Meeting

Room 336

Wednesday, November 7, 2007 Noon – 2 p.m.

Certificate Exam Committee Meeting

Room 410

Wednesday, November 7, 2007 12:15 p.m. – 1:15 p.m.

Mid-Day Session 129

Career Issues: Global Health Research in the Tropical Developing World

Supported with funding from The Burroughs Wellcome Fund

Salon CD

Wednesday, November 7, 2007 12:15 p.m. - 1:15 p.m.

A one-hour panel discussion featuring speakers from the previous session discussing three big questions: What do you wish you had known before you started working with your colleagues in a developing world research setting? What could a little more flexibility — in time, money or resources — let you do that you might otherwise not be able? What are your career concerns as you face (and have faced) the milestones and expected benchmarks of faculty advancement?

A light lunch will be provided.

CHAIR

Victoria P. McGovern

Burroughs Wellcome Fund, Research Triangle Park, NC, United States

MODERATOR

Robert Gilman

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

12:15 p.m.**PANELIST**

Danny A. Milner

The Brigham & Women's Hospital, Boston, United States

12:30 p.m.**PANELIST**

Risa Hoffman

UCLA School of Medicine, Los Angeles, United States

12:45 p.m.**PANELIST**

Regina LaRocque

Brigham and Women's Hospital, Boston, United States

1 p.m.**PANELIST**

Mina Hosseinipour

University of North Carolina School of Medicine, Chapel Hill, NC, United States

Mid-Day Session 130**PubMed and HINARI: Searching and Getting the Articles You Want***Salon F***Wednesday, November 7, 2007 12:15 p.m. - 1:15 p.m.**

PubMed is a Web interface enabling the users to search MEDLINE, the U.S. National Library of Medicine's premier bibliographic database covering the fields of medicine, nursing, dentistry, veterinary medicine, the health care system and the preclinical sciences. Health InterNetwork is a partnership between the World Health Organization and several major biomedical publishers providing registered institutions in certain developing countries free full text access to more than 3680 scientific journals. Attendees will learn the basics and some advanced techniques of searching PubMed and retrieving the full text article online through PubMed free full text filter, PubMed Central and especially HINARI. Also, saved search strategies and automated e-mail updates with links to full text for HINARI via MyNCBI will be introduced. <http://www.who.int/hinari/> and <http://www.pubmed.gov/>.

SPEAKER

Chuong Huynh

*National Institutes of Health, Bethesda, MD, United States***Mid-Day Session 131****Scientists Making Media: How Do We Do It?***Salon G***Wednesday, November 7, 2007 12:15 p.m. - 1:15 p.m.**

This symposium will bring together experts in the field of video and animation production for biological sciences and real life documentaries. In a new era of visual resources for learning and publishing, scientists are not aware of ways of illustrating, animating or videomaking. Major scientific journals, institutes of research and universities are using visual means of propagating knowledge. But there are scarce federal funding resources available to do these kinds of productions, despite the needs. In this symposium we will get an idea of where and how to find resources to create our own videos and how to best use them for educational purposes. Also, how public TV has created major open source materials for science educators and how much more it could be done to synchronize science research and society will be examined. Finally, the session will explore how Geographic Information System (GIS) is implemented in science and highlight two examples of media production: animation and documentaries to the service science.

CHAIR

Irene Bosch

*UMASS Medical School, Worcester, MA, United States***12:15 p.m.****INTRODUCTION**

Irene Bosch

*University of Massachusetts Medical School, Worcester, MA, United States***12:20 p.m.****USE OF GEOGRAPHIC INFORMATION SYSTEM (GIS) IN SCIENCE TODAY**

James Higgins

*ESRI, Chesterbrook, PA, United States***12:35 p.m.****TEACHERS DOMAIN AT WGBH EDUCATION FOUNDATION**

Denise Blumenthal

*WGBH, Boston, MA, United States***12:50 p.m.****DOCUMENTARIES AND ACADEMIA**

Calogero Salvo

*Salvo Production, NY, United States***1 p.m.****ANIMATION IN BIOLOGICAL SCIENCES**

David Bolinsky

*xVIVO, Rocky Hill, CT, United States***Mid-Day Session 132****National Institutes of Health Grants: Grantsmanship, Review and Funding Opportunities***Salon KL***Wednesday, November 7, 2007 12:15 p.m. - 1:15 p.m.**

Tailored to the interests of young investigators, this session will focus on identifying funding opportunities, the art of competitive grant-writing, and the peer-review process at the National Institutes of Health.

CHAIR

John C. Pugh

*National Institutes of Health, Bethesda, MD, United States***SPEAKERS**

Lawrence Bergman

Drexel University College of Medicine, Philadelphia, PA, United States

Alexander Politis

National Institutes of Health, Bethesda, MD, United States

Martin John Rogers

National Institutes of Health, Bethesda, MD, United States

Detailed Program

Mid-Day Session 132A

Workers in Tropical Medicine Video: Karl M. Johnson, MD: Life and Legend of a Leader in Tropical Virology

Franklin 1

Wednesday, November 7, 2007 12:15 p.m. - 1:15 p.m.

This 60-minute film presents an interview of Dr. Karl Johnson, focusing on his career in tropical medicine. The interview was conducted by Barnett L. Cline, MD, PhD.

CHAIR

Barnett Cline

Tulane University, Blanco, TX, United States

DIRECTOR AND PRODUCER

Patrick Dunavan

HealthQuest Media Inc., Los Angeles, CA, United States

Meet the Professors 133

Meet the Professors E: International Travel to Give or Receive Health Care

Franklin 3/4

Wednesday, November 7, 2007 12:15 p.m. - 1:15 p.m.

This session will explore issues in medical tourism, such as seeking health care abroad and traveling to provide medical care.

CHAIR

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

12:15 p.m.

MEDICAL TOURISM: EPIDEMIOLOGY OF SEEKING HEALTH CARE ABROAD

Christie Reed

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

12:30 p.m.

MEDICAL TOURISM: TRAVELING TO PROVIDE MEDICAL CARE

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

12:45 p.m.

ACCREDITATION OF HOSPITALS WORLDSIDE AND PATIENT SAFETY SOLUTIONS

David Jaimovich

Joint Commission International, Chicago, IL, United States

1 p.m.

CONCLUSION AND QUESTIONS

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

Poster Session C Viewing

Franklin Hall B

Wednesday, November 7, 2007
1:30 p.m. - 7 p.m.

Symposium 135

A Multi-Faceted Investigation of an Outbreak of Rift Valley Fever in Kenya, 2006-2007 - Part I

Salon AB

Wednesday, November 7, 2007 1:30 p.m. - 3:15 p.m.

An outbreak of Rift Valley Fever, causing severe illness in more than 600 people and resulting in more than 150 deaths, occurred in several locations in Kenya from November 2006 until early March 2007. The symposium will review the epidemic and present findings from the multi-faceted investigation which included epidemiologic and clinical investigations, economic impact, entomologic surveys, virologic/genetic studies, veterinary surveillance and will include geographic modeling incorporating data from the above studies in combination with satellite imagery providing moisture and soil information. The focus ultimately will be on what information was collected, which will enable public health officials to forecast future outbreaks in order to implement effective public health prevention measures before an outbreak occurs (including the potential for livestock immunization, targeted larvicidal campaigns and behavior modification/risk reduction)

CHAIR

Robert Breiman

Centers for Disease Control and Prevention-KEMRI, Nairobi, Kenya

Tom Ksiazek

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

1:30 p.m.

THE 2006-2007 OUTBREAK

David Mutonga

Ministry of Health, Nairobi, Kenya

1:50 p.m.

FINDINGS FROM RISK FACTOR STUDIES IN HUMANS

Hannah Gould

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

2:05 p.m.

FINDINGS FROM RISK FACTOR STUDIES IN HUMANS

Eileen Farnon

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

2:20 p.m.

VETERINARY FINDINGS OF THE OUTBREAK

R.M. Murithi

Ministry of Livestock and Fisheries Development, Nairobi, Kenya

2:45 p.m.

ENTOMOLOGIC FINDINGS

Rosemary Sang

Kenya Medical Research Institute, Nairobi, Kenya

Symposium 136**Vaccinology and Neglected Tropical Diseases***Salon CD***Wednesday, November 7, 2007 1:30 p.m. - 3:15 p.m.**

Neglected tropical diseases, occurring primarily in developing countries and associated with limited economic resources, remain serious social problems despite improved treatments and public health interventions. Development of effective vaccination strategies may result in disease eradication, but is limited by available science, immunology and financial resources. This symposium will introduce the science of vaccines and their potential uses in several neglected diseases of the tropics.

CHAIR

M. Patricia Joyce

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

Peter J. Hotez

*The George Washington University, Washington, DC, United States***1:30 p.m.****HOOKWORM VACCINES**

Peter J. Hotez

*The George Washington University, Washington, DC, United States***1:55 p.m.****SCHISTOSOMIASIS VACCINES**

Alex Loukas

*Queensland Institute of Medical Research, Brisbane, Australia***2:20 p.m.****LEPROSY VACCINES**

M. Patricia Joyce

*Centers for Disease Control and Prevention, Atlanta, GA, United States***2:50 p.m.****BURULI ULCER VACCINES**

Kris Huygen

*WIV-Pasteur Institute Brussels, Brussels, Belgium***Scientific Session 137****Malaria - Drug Resistance: Modeling and High Throughput Analysis***Salon E***Wednesday, November 7, 2007****1:30 p.m. - 3:15 PM****CHAIR**

Jean Bosco Ouedraogo

Institut de Recherche en Sciences de la Sante, Bobo-Dioulasso, Burkina Faso

Stephanie G. Valderramos

*Albert Einstein College of Medicine, Bronx, NY, United States***1:30 p.m.****934****ARTEMISININ RESISTANCE IN CAMBODIA?**

Harald Noedl¹, Lon Chan Thap², Youry Se¹, Duong Socheat², Sok Peou², Kurt Schaecher¹, Sabaithip Sriwichai¹, Paktiya Teja-Isavadharm¹, Bryan Smith¹, Krisada Jongsakul¹, Sittidech Surasri¹, Mark M. Fukuda¹

¹United States Army Medical Component-Armed Forces Research Institute of the Medical Science, Bangkok, Thailand, ²National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia

1:45 p.m.**935****A HIGH THROUGHPUT IN VITRO IC₅₀ ASSAY FOR PLASMODIUM FALCIPARUM FIELD SAMPLES: ADAPTATION OF A DAPI ASSAY**

Daouda Ndiaye¹, Mary Lynn Baniecki², El-Hadji Badiane¹, Moussa Dieng Sarr³, Omar Ndir¹, Souleymane Mboup¹, Johanna Daily², Dyann Wirth²

¹Cheikh Anta Diop University, Dakar, Senegal, ²Harvard School of Public Health, Boston, MA, United States, ³Service de Lutte antiparasitaire de Thies (S.L.A.P), Thies, Senegal

2 p.m.**936****MODELLING ANTIMALARIAL DRUG RESISTANCE AND THE COST-EFFECTIVENESS OF DIFFERENT COVERAGE RATES WITH ARTEMISININ COMBINATION THERAPIES (ACTS)**

Shunmay Yeung¹, Wirichada Pongtavornpinyo¹, Ian M. Hastings², Anne Mills³, Nicholas J. White¹

¹Oxford-Mahidol Tropical Medicine Programme, Bangkok, Thailand, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³London School of Hygiene and Tropical Medicine, London, United Kingdom

2:15 p.m.**937****THE IMPACT OF HIV-1 ON THE MALARIA PARASITE BIOMASS IN SUB-SAHARAN AFRICA AND ITS POSSIBLE CONTRIBUTION TO THE EMERGENCE AND SPREAD OF ANTIMALARIAL DRUG RESISTANCE**

Jean-Pierre Van Geertruyden¹, Joris Menten¹, Robert Colebunders¹, Eline Korenromp², Umberto D'Alessandro¹

¹Prince Leopold Instituut voor tropische geneeskunde, Antwerpen, Belgium, ²Department of Public Health, University Medical Centre Rotterdam, Rotterdam, The Netherlands

2:30 p.m.**938****RARE DRUG RESISTANCE ALLELES THRIVE IN MOSQUITO PHASE OF PLASMODIUM FALCIPARUM**

Sungano Mharakurwa¹, Taida Kumwenda¹, Mtawa Mkulama¹, Musapa Mulenga¹, Sandra Chishimba¹, Jay Sikalima¹, Douglas Norris², Clive J. Shiff², Philip E. Thuma¹

¹The Malaria Institute at Macha, Choma, Zambia, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

2:45 p.m.

939

AMPLIFICATION OF THE PFMDR1 LOCUS IN *PLASMODIUM FALCIPARUM* IS LINKED TO PLEIOTROPIC TRANSCRIPTIONAL REGULATION

Joseph M. Gonzales¹, Jigar J. Patel¹, Napawan Ponmee², Lei Jiang², Pradip K. Rathod², Michael T. Ferdig¹

¹University of Notre Dame, Notre Dame, IN, United States, ²University of Washington, Seattle, WA, United States

3 p.m.

940

MUTANT PFCRT DOES NOT CONFER HIGH LEVELS OF CHLOROQUINE RESISTANCE TO ALL STRAINS OF *PLASMODIUM FALCIPARUM*

Stephanie Valderramos¹, Lise Musset², Juan-Carlos Valderramos², David A. Fidock²

¹Albert Einstein College of Medicine, Bronx, NY, United States, ²Columbia University, New York, NY, United States

Symposium 138

Gender and the Social Risks of Malaria: Implications for Malaria Control Strategies in Africa

Salon F

Wednesday, November 7, 2007 1:30 p.m. - 3:15 p.m.

Women and their children disproportionately bear the clinical burden of malaria and, as a result, most malaria control strategies directly target mothers, pregnant women and children under five. In order to ensure that these programs are effective, it is essential to consider the ways that sociocultural, economic and other structural risks interact with biological factors to make women particularly vulnerable to both the physiological and social burdens of malaria. In order to illustrate the implications of gendered aspects of malaria for the development and implementation of effective malaria control strategies, the speakers in this symposium will draw on case studies from Africa which highlight factors that constrain women's abilities to adopt recommended malaria prevention and treatment behaviors.

CHAIR

Amy E. Patterson

Emory University, Atlanta, GA, United States

1:30 p.m.

RURAL VULNERABILITIES AND ACCESS TO EFFECTIVE MALARIA TREATMENT: CASE STUDIES FROM KILOMBERO DISTRICT, TANZANIA

Brigit Obrist

Swiss Tropical Institute, Basel, Switzerland

2 p.m.

HEALTHY CROPS OR HEALTHY CHILDREN? WOMEN'S COMPETING PRIORITIES DURING THE CULTIVATION SEASON IN RURAL TANZANIA

Rene P. Gerrets

New York University, New York, NY, United States

2:25 p.m.

SINGLE MOTHERS, SOCIAL RISK AND THE MANAGEMENT OF CHILDHOOD MALARIA: CASE STUDY FROM COASTAL TANZANIA

Vinay Kamat

University of British Columbia, Vancouver, BC, Canada

2:45 p.m.

HOUSEHOLD DYNAMICS AND GENDERED RESPONSES TO CHILDHOOD MALARIA: CASE STUDIES FROM MALI

Amy Ellis

Johns Hopkins University, Baltimore, MD, United States

Symposium 138A

VFR: Travel to Visit Friends and Relatives in Developing Countries

Salon G

Wednesday, November 7, 2007 1:30 p.m. - 3:15 p.m.

Foreign-born residents comprise 11% of the U.S. population, and when combined with their U.S.-born spouses and children, comprise an increasing proportion of U.S. international travelers as they return to visit friends and relatives (VFR). The majority of diseases, such as malaria, measles and typhoid are imported into the U.S. by travelers although they are easily prevented, deaths continue to occur. Identification of the barriers to effective prevention is needed, as well as new strategies to reach both the VFR population and the health care providers who care for them both before and after travel.

CHAIR

Christie M. Reed

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

David R. Boulware

University of Minnesota, Minneapolis, MN, United States

1:30 p.m.

THE CHANGING EPIDEMIOLOGY OF U.S. TRAVEL: THE FOREIGN BORN TRAVELER RETURNING HOME

Christie M. Reed

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

1:50 p.m.

THE IMMIGRANT AS A TRAVELER: HOW DO WE REACH THEM?

Patricia F. Walker

University of Minnesota, Minneapolis, MN, United States

2:10 p.m.

THE IMMIGRANT AS A TRAVELER: HOW DO WE PREPARE THEM AS TRAVELERS?

David R. Boulware

University of Minnesota, Minneapolis, MN, United States

2:30 p.m.

ASPECTS OF IMMUNIZATIONS FOR VISITING FRIENDS AND RELATIVES (VFR) TRAVELERS

Lin H. Chen
Harvard University, Cambridge, MA, United States

2:50 p.m.

CONCLUSION AND QUESTIONS

David R. Boulware
University of Minnesota, Minneapolis, MN, United States

Symposium 139

Pathways to Dengue Vaccine Development

Salon H

Wednesday, November 7, 2007 1:30 p.m. - 3:15 p.m.

This symposium will describe the following: 1) the epidemiology of dengue virus infection; 2) review of burden of illness from eight specific sites; 3) recent advances in high throughput diagnostics; and 4) status of current vaccine development.

CHAIR

Joel Kuritsky
Pediatric Dengue Vaccine Initiative, Seoul, Republic of Korea

Harold Margolis
Pediatric Dengue Vaccine Initiative, Seoul, Republic of Korea

1:30 p.m.

INTRODUCTION

Harold Margolis
Pediatric Dengue Vaccine Initiative, Seoul, Republic of Korea

1:40 p.m.

BURDEN OF DENGUE INFECTION: A VIEW FROM THE FIELD

Bill Letson
Pediatric Dengue Vaccine Initiative, Seoul, Republic of Korea

2 p.m.

ECONOMIC AND HEALTH BURDEN OF DENGUE IN EIGHT COUNTRIES

Jose Suaya
Brandeis University, Waltham, MA, United States

2:20 p.m.

SECOND GENERATION DENGUE DIAGNOSTICS

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

2:35 p.m.

DENGUE VACCINE CANDIDATES: CURRENT STATUS

Jean Lang
sanofi pasteur, Lyon, France

2:50 p.m.

DENGUE VACCINE CANDIDATES: CURRENT STATUS

Bruce Innis
GlaxoSmithKline Biologicals, King of Prussia, PA, United States

Scientific Session 140

Mosquitoes - Biochemistry, Molecular Biology and Molecular Genetics I

Salon JJ

Wednesday, November 7, 2007

1:30 p.m. - 3:15 PM

CHAIR

Donald E. Champagne
University of Georgia, Athens, GA, United States

Sanjeev Kumar
National Institutes of Health, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

1:30 p.m.

941

A SECRETED ANOPHELES MIDGUT PEROXIDASE REGULATES PLASMODIUM FALCIPARUM DEVELOPMENT

Sanjeev Kumar, Lalita Gupta, Carolina Barillas-Mury
National Institutes of Health, Rockville, MD, United States

1:45 p.m.

942

LOCALIZATION OF NOVEL α -CARBONIC ANYDRASES FROM THE LARVAE OF ANOPHELES GAMBIAE AND AEADES AEGYPTI

Kristin E. Smith, Leslie A. VanEkeris, Paul J. Linser
University of Florida, Saint Augustine, FL, United States

2 p.m.

943

MEMBERS OF THE IMMUNOGLOBULIN SUPERFAMILY HELP CONTROL MALARIA AND BACTERIA IN ANOPHELES GAMBIAE MOSQUITOES

Lindsey S. Garver, George Dimopoulos
Malaria Research Institute, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

2:15 p.m.

944

PI-3 KINASE AND PTEN: DUELING INSULIN SIGNALING MOLECULES IN THE MOSQUITO AEADES AEGYPTI

Michael A. Riehle, Benjamin M. Pri-Tal, Jessica M. Brown
University of Arizona, Tucson, AZ, United States

Wednesday, November 7

2:30 p.m.

945

THE HERVES TRANSPOSABLE ELEMENT IN ANOPHELES GAMBIAERamanand Arun Subramanian¹, Tovi Lehmann², Peter A. Atkinson³, David A. O'Brochta¹¹UMBI, Rockville, MD, United States, ²National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ³University of California, Riverside, CA, United States

2:45 p.m.

946

EPIGENETIC REGULATION OF STACKED TRANSGENE IN YELLOW FEVER MOSQUITO, Aedes aegyptiNagaraja Sethuraman Balakathiresan¹, Fred Gould², David A. O'Brochta¹¹University of Maryland Biotechnology Institute, Rockville, MD, United States, ²Department of Entomology, College of Agriculture and Life Sciences, Raleigh, NC, United States

3 p.m.

947

ANALYSIS OF THE TRANSCRIPTOME OF Aedes aegypti MALE REPRODUCTIVE ACCESSORY GLANDS

Donald E. Champagne, Mark R. Brown

University of Georgia, Athens, GA, United States

Symposium 141**Schistosome Functional Genomics**

Salon KL

Wednesday, November 7, 2007 1:30 p.m. - 3:15 p.m.

This symposium is designed to review and update progress in the effort to develop genomic and functional genomic tools for schistosomiasis research. This symposium will describe new functional genomic databases and efforts to better understand basic parasite biology through linkage mapping, microarray and proteomic analyses.

CHAIR

David Williams

Illinois State University, Normal, IL, United States

Philip T. LoVerde

Southwest Foundation for Biomedical Research, San Antonio, TX, United States

1:30 p.m.

A NEW FUNCTIONAL GENOMICS DATABASE FOR S. MANSONI

Guilherme C. Oliveira

Fundação Oswaldo Cruz (FIOCRUZ), Belo Horizonte, Brazil

2 p.m.

CONSTRUCTION OF A LINKAGE MAP FOR SCHISTOSOMA MANSONI

Tim Anderson

Southwest Foundation for Biomedical Research, San Antonio, TX, United States

2:25 p.m.

GENE EXPRESSIONAL CHANGES DURING THE SCHISTOSOMA JAPONICUM LIFECYCLE

Geoffrey Gobert

Queensland Institute of Medical Research, Brisbane, Australia

2:50 p.m.

PROTEOMIC ANALYSIS OF SCHISTOSOMA MANSONI EGG SECRETIONS

David Williams

Illinois State University, Normal, IL, United States

Symposium 142**Progress in Vaccines and Immunotherapy for Leishmaniasis**

Liberty AB

Wednesday, November 7, 2007 1:30 p.m. - 3:15 p.m.

This symposium focuses on advances in the development and clinical application of vaccines and immunotherapy against leishmaniasis. Clinical data from trials in Africa and South America will be presented using novel vaccines and immunotherapeutic approaches to treat various forms of leishmaniasis, including visceral, post kala-azar dermal, cutaneous and mucosal.

CHAIR

Steven G. Reed

Infectious Disease Research Institute, Seattle, WA, United States

1:30 p.m.

INTRODUCTION

Steven G. Reed

Infectious Disease Research Institute, Seattle, WA, United States

1:55 p.m.

LEISHMANIA VACCINE DEVELOPMENT

Steven Reed

Infectious Disease Research Institute, Seattle, WA, United States

2:15 p.m.

TREATMENT OF LEISHMANIA INFECTION WITH THE TLR 7/8 AGONIST, IMIQUIMOD: FROM MOLECULAR STUDIES TO HUMAN CLINICAL TRIALS

Greg Matlashewski

McGill University, Montreal, QC, Canada

2:35 p.m.

CLINICAL STUDIES IN SUDAN: LEISHMANIA VACCINE

Hashim Ghalib

World Health Organization, Geneva, Switzerland

2:55 p.m.**CLINICAL DEVELOPMENT OF THE LEISH-111F + MPL-SE VACCINE**

Franco Piazza

*Infectious Disease Research Institute, Seattle, WA, United States***Scientific Session 143****Filariasis III - Immunology**

Liberty C

Wednesday, November 7, 2007**1:30 p.m. - 3:15 PM****CHAIR**

Siddhartha Mahanty

National Institutes of Health, Bethesda, MD, United States

Manish Ramesh

*University of Connecticut Health Center, Farmington, CT, United States***1:30 p.m.****948****TWO WEEKS OF REPEATED PARASITE EXPOSURES DO NOT INCREASE THE SUSCEPTIBILITY OF VACCINATED MICE TO HELMINTH INFECTIONS**

Marc P. Hübner, Marina N. Torrero, Edward Mitre

*Uniformed Services University of the Health Sciences, Bethesda, MD, United States***1:45 p.m.****949****GRANZYME A AND B EXPRESSION IS ASSOCIATED WITH IMMUNOSUPPRESSION IN HUMAN AND MURINE FILARIASIS**Wiebke Hartmann¹, Marlis Badusche¹, Markus Simon², Bernhard Fleischer¹, **Simone Kortzen**¹¹*Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany,*²*Metschnikoff Laboratory, Max-Planck-Institut fuer Immunbiologie, Freiburg, Germany***2 p.m.****950****MICROFILARIA POSITIVITY MODULATES THE EXPRESSION OF FCER1-A ON MONOCYTES IN FILARIA-INFECTED PATIENTS**

Cathy Steel, Thomas B. Nutman

*National Institutes of Health, Bethesda, MD, United States***2:15 p.m.****952****CYTOKINE RESPONSES TO MALARIAL ANTIGENS AND ACTIVATION OF TOLL-LIKE RECEPTOR (TLR) MEDIATED PATHWAYS IN HUMAN CO-INFECTIONS WITH FILARIAL PARASITES AND MALARIA**Benoit Dembele¹, Abhisake Kole², Abdallah Diallo¹, Simon Metenou², Siaka Konate¹, Yaya Coulibaly¹, Hussein Dolo¹, Michel E. Coulibaly¹, Lamine Soumaoro¹, Thomas B. Nutman², Amy Klion², Cheick Traore¹, Siddhartha Mahanty²¹*Filariasis Unit, Malaria Research and Training Centre, University of Bamako, Mali,* ²*Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States*

(ACMCIP Abstract)

2:30 p.m.**953****DEVELOPMENT OF A NEMATODE MICROMOTILITY ASSAY TO MEASURE KILLING OF FILARIAL PARASITES BY CULEX PIPPIENS PIPPIENS MIDGUT TISSUE HOMOGENATE**Sara M. Erickson¹, Lyric C. Bartholomay², Michael J. Kimber², Tim A. Day², Bruce M. Christensen¹¹*University of Wisconsin-Madison, Madison, WI, United States,* ²*Iowa State University, Ames, IA, United States***2:45 p.m.****QUESTION AND ANSWER PERIOD OR LATE BREAKER ABSTRACT PRESENTATION****3 p.m.****QUESTION AND ANSWER PERIOD OR LATE BREAKER ABSTRACT PRESENTATION****Scientific Session 144****Viruses I**

Franklin 3/4

Wednesday, November 7, 2007**1:30 p.m. - 3:15 p.m.****CHAIR**

Jonathan H. Epstein

The Consortium for Conservation Medicine, New York, NY, United States

Gregory Glass

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

Detailed Program

1:30 p.m.

954

THE EMERGENCE OF NIPAH VIRUS IN MALAYSIA: EPIDEMIOLOGY AND HOST ECOLOGY OF *PTEROPUS BATS*

Jonathan H. Epstein¹, Sohayati Abdul Rahman², Craig S. Smith³, Kim Halpin⁴, Syed Hassan Sharifah², Abdul Aziz Jamaluddin⁵, Hume E. Field³, Alex Hyatt⁴, The Henipavirus Ecology Research Group (HERG)¹, Peter Daszak¹

¹The Consortium for Conservation Medicine, New York, NY, United States, ²The Veterinary Research Institute, Ipoh, Malaysia, ³The Department of Primary Industries and Fisheries, Yeerongpilly, Australia, ⁴The Australian Animal Health Laboratory, Geelong, Australia, ⁵Department of Veterinary Services, Kuala Lumpur, Malaysia

1:45 p.m.

955

RECURRENT NIPAH VIRUS OUTBREAKS IN BANGLADESH, 2001-2007

Stephen Luby¹, Mahmudur Rahman², M. J. Hossain¹, Be-Nazir Ahmed², Emily Gurley¹, Shakila Banu¹, Nusrat Homira¹, Pierre E. Rollin³, James A. Comer³, Paul Rota³, Joel Montgomery³, Thomas G. Ksiazek³

¹International Center for Diarrhoeal Disease Research, B, Dhaka, Bangladesh, ²Institute for Epidemiology Disease Control and Research, Dhaka, Bangladesh, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

2 p.m.

956

UNDERSTANDING NIPAH VIRUS EMERGENCE IN PENINSULAR MALAYSIA: THE ROLE OF EPIDEMIC ENHANCEMENT IN DOMESTIC PIG POPULATIONS

Juliet R. Pulliam¹, Jonathan Dushoff², Hume E. Field³, Jonathan H. Epstein⁴, Henipavirus Ecology Research Group (HERG)⁴, Andrew P. Dobson⁵, Peter Daszak⁴

¹Emory University, Atlanta, GA, United States, ²McMaster University, Hamilton, ON, Canada, ³Biosecurity Sciences Laboratory, Department of Primary Industries and Fisheries, Queensland, Australia, ⁴Consortium for Conservation Medicine, New York, NY, United States, ⁵Princeton University, Princeton, NJ, United States

2:15 p.m.

957

OUTBREAK OF HUMAN RABIES IN MADRE DE DIOS AND PUNO, PERU DUE TO CONTACT WITH THE COMMON VAMPIRE BAT, *DESMODUS ROTUNDUS*

Jorge Gomez-Benavides¹, C. Manrique¹, F. Passara¹, C. Hualpa¹, V. A. Laguna², H. Zamalloa², S. Recuenco³, A. Diaz³, A. Velasco-Villa³, M. Niezgodna³, C. Rupprecht³, Tadeusz Kochel², J. M. Montgomery²

¹Dirección General de Epidemiología, Ministerio de Salud, Peru, ²Naval Medical Research Center Detachment, Lima Peru, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

2:30 p.m.

958

PHYLOGENETICALLY DISTINCT HANTAVIRUSES IN *SOEX CINEREUS* AND *SOEX MONTICOLUS* IN THE UNITED STATES

Satoru Arai¹, Laarni Sumibcay¹, Shannon N. Bennett¹, Joseph A. Cook², Jin-Won Song³, Cheryl Parmenter², Vivek R. Nerurkar¹, Terry L. Yates², Richard Yanagihara¹

¹University of Hawaii, Honolulu, HI, United States, ²University of New Mexico, Albuquerque, NM, United States, ³Korea University, Seoul, Republic of Korea

2:45 p.m.

959

THE ROLE OF PREDATORS IN REDUCING PARASITES IN PREY POPULATIONS: AN EXAMPLE IN URBAN USA

Gregory E. Glass¹, Robert D. Holt², Lynne C. Gardner-Santana¹, Jessica Chen³, Douglas E. Norris¹, Sabra L. Klein¹, Manojit Roy², Robert H. Purcell⁴

¹The W. Harry Feinstone Department of Molecular Microbiology and Immunology, The Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ²Department of Zoology, University of Florida, Gainesville, FL, United States, ³Department of Psychology, The Johns Hopkins University, Baltimore, MD, United States, ⁴Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

3 p.m.

960

OUTBREAK OF FATAL CARDIOPULMONARY FAILURE AMONG CHILDREN CAUSED BY AN EMERGING STRAIN OF ENTEROVIRUS 71 - NAKHORN RATCHASIMA PROVINCE, THAILAND, 2006

Rome Buathong¹, Wanna Hanshoaworakul¹, Sopon Iamsirithaworn¹, Yoawapa Pongsuwanna², Pilaipan Puthawathana³, Michael O'Reilly⁴, Kumnuan Ungchusak⁵

¹Field Epidemiology Training Program, Bureau of Epidemiology, Nonthaburi, Thailand, ²National Institute of Health, Department of Medical Science, Nonthaburi, Thailand, ³Department of Microbiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand, ⁴Thailand Ministry of Public Health-US Centers for Disease Control and Prevention Collaboration, Nonthaburi, Thailand, ⁵Bureau of Epidemiology, Department of Disease Control, Nonthaburi, Thailand

Coffee Break

Franklin Hall B

Wednesday, November 7, 2007 3:15 p.m. - 3:45 p.m.

Symposium 145

A Multi-Faceted Investigation of an Outbreak of Rift Valley Fever in Kenya, 2006-2007 - Part II

Salon AB

Wednesday, November 7, 2007 3:45 p.m. - 5:30 p.m.

An outbreak of Rift Valley Fever, causing severe illness in more than 600 people, resulting in more than 150 deaths, occurred in several locations in Kenya from November 2006 until early March 2007. The symposium (I and II) will review the epidemic and present findings from the multi-faceted investigation, which included epidemiologic and clinical investigations, economic impact, entomologic surveys, virologic/genetic studies, veterinary surveillance, and will include geographic modeling incorporating data from the above studies in combination with satellite imagery providing moisture and soil information. The focus ultimately will be on what information was collected, which will enable public health officials to forecast future outbreaks in order to implement effective public health prevention measures before an outbreak occurs (including the potential for livestock immunization, targeted larvicidal campaigns and behavior modification/risk reduction)

CHAIR

Robert Breiman

Centers for Disease Control and Prevention-KEMRI, Nairobi, Kenya

Thomas Ksiazek

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

3:45 p.m.

ENTOMOLOGY TESTING: MOLECULAR EPIDEMIOLOGY OF RVF ISOLATES AND NOVEL ARBOVIRUSES IDENTIFIED

John Lee

United States Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States

4:10 p.m.

HUMAN VIROLOGIC AND IMMUNOLOGIC FINDINGS - A WINDOW INTO ANTIBODY KINETICS, VIRAL LOAD AND CLINICAL PRESENTATION

M. Kariuki Njenga

Centers for Disease Control and Prevention-KEMRI, Nairobi, Kenya

4:35 p.m.

FORECASTING RVF OUTBREAKS-FINETUNING A MODEL

Kenneth Linthicum

United States Department of Agriculture, Gainesville, FL, United States

5 p.m.

SPATIAL MODELING OF THE RVF EPIDEMIC: THE ROLE OF KENYA-BASED GEOGRAPHIC, GEOLOGIC AND CLIMATOLOGIC FACTORS

Allen Hightower

Centers for Disease Control and Prevention-Kenya, Nairobi, Kenya

Scientific Session 146

Protozoa

Salon CD

Wednesday, November 7, 2007

3:45 p.m. - 5:30 PM

CHAIR

Thaddeus Graczyk

Johns Hopkins University, Baltimore, MD, United States

Barbara Mann

University of Virginia, Charlottesville, VA, United States

3:45 p.m.

961

EFFICACY OF PYRVINIUM PAMOATE AGAINST CRYPTOSPORIDIUM PARVUM INFECTION *IN VITRO* AND IN A NEONATAL MOUSE MODEL

Autumn S. Girouard¹, David J. Sullivan¹, Curtis R. Chong², Thaddeus K. Graczyk¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Johns Hopkins University School of Medicine, Baltimore, MD, United States

4 p.m.

962

IMPACT OF BATHERS ON LEVELS OF CRYPTOSPORIDIUM PARVUM OOCYSTS AND GIARDIA LAMBLIA CYSTS IN RECREATIONAL BEACH WATERS

Thaddeus K. Graczyk, Deirdre Sunderland, Leena Tamang, Patrick N. Breysse

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

4:15 p.m.

963

A MOLECULAR *IN VITRO* ASSAY TO ASSESS THE PARASITOCIDAL ACTIVITY OF TOLTRAZURIL AGAINST NEOSPOA CANINUM

Bruno Gottstein¹, Maria Strohbusch¹, Norbert Mueller¹, Andrew Hemphill¹, Gisela Greif²

¹Institute of Parasitology, Bern, Switzerland, ²Bayer HealthCare, Leverkusen, Germany

(ACMCIP Abstract)

4:30 p.m.

964

**THE STUDY OF ASSOCIATIONS BETWEEN *ENTAMOEB*
HISTOLYTICA INFECTION AND DISEASE WITH SINGLE
NUCLEOTIDE POLYMORPHISMS (SNPS) IN IMMUNE
RESPONSE GENES**

Priya Duggal¹, Kristine Peterson², Rashidul Haque³, Dinesh Mondal³,
Alan Sher⁴, Stacy M. Ricklefs⁵, Steve Porcella⁵, **William A. Petri**²

¹National Human Genome Research Center, National Institute of Health,
Baltimore, MD, United States, ²University of Virginia, Charlottesville, VA,
United States, ³International Centre for Diarrheal Disease Research, Dhaka,
Bangladesh, ⁴National Institute of Health, National Institute of Allergy and
Infectious Diseases, Bethesda, MD, United States, ⁵National Institute of
Health, National Institute of Allergy and Infectious Diseases, Rocky Mountain
Laboratories, Hamilton, MT, United States

4:45 p.m.

965

**THE IMPORTANCE OF IRON IN ANAEROBIC METABOLISM OF
ENTAMOEB
HISTOLYTICA AND *ENTAMOEB*
*INVADENS***

Avelina Espinosa, Shannon Arnold

Roger Williams University, Bristol, RI, United States

(ACMCIP Abstract)

5 p.m.

966

**REAL-TIME PCR ASSAY FOR DETECTION OF *E. HISTOLYTICA*
DNA IN SALIVA AND URINE SPECIMENS OF AMEBIC LIVER
ABSCESS (ALA) PATIENTS**

Rashidul Haque¹, Mamun Kabir¹, Dinesh Mondal¹, Shakil
Ahamed¹, William A. Petri²

¹International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh,
²University of Virginia Department of Medicine, Division of Infectious
Diseases and International Health, Charlottesville, VA, United States

5:15 p.m.

967

**DRUG DISCOVERY: TARGETING ATTACHMENT IN *GIARDIA*
LAMBLIA PATHOGENESIS**

Colleen D. Walls, Heidi G. Elmendorf

Georgetown University, Washington, DC, United States

(ACMCIP Abstract)

Scientific Session 147

**Malaria - Molecular Markers of Drug Resistance
in the Field**

Salon E

Wednesday, November 7, 2007

3:45 p.m. - 5:30 PM

CHAIR

Qin Cheng

Australian Army Malaria Institute, Brisbane, Australia

Andrea M. McCollum

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

3:45 p.m.

968

**RELATIONSHIP BETWEEN TREATMENT OUTCOME AND
MOLECULAR MARKERS OF RESISTANCE IN *PLASMODIUM FAL-*
CIPARUM: A SYSTEMATIC REVIEW AND META-ANALYSIS OF
PUBLISHED DATA**

Stephane Picot¹, Piero L. Olliaro², Frédérique de Monbrison¹,
Pascal Ringwald²

¹University Claude Bernard, Lyon, France, ²World Health Organization,
Geneva, Switzerland

4 p.m.

969

**MOLECULAR EVOLUTION OF THE RETURN OF CHLOROQUINE-
SUSCEPTIBLE *FALCIPARUM* MALARIA IN MALAWI**

Miriam K. Laufer¹, Fraction K. Dzinjalama², Shannon L. Takala¹,
Terrie E. Taylor³, Christopher V. Plowe¹

¹University of Maryland School of Medicine, Baltimore, MD, United States,
²University of Malawi College of Medicine, Blantyre, Malawi, ³Michigan
State University, East Lansing, MI, United States

4:15 p.m.

970

**NO GENETIC BOTTLE-NECK IN *PLASMODIUM FALCIPARUM*
WILD TYPE *PF*
CR
T ALLELES RE-EMERGING IN HAINAN ISLAND,
CHINA FOLLOWING HIGH-LEVEL CHLOROQUINE RESISTANCE**

Nanhua Chen¹, Qi Gao², Shanqing Wang³, Guangze Wang³,
Michelle Gatton⁴, **Qin Cheng**¹

¹Australian Army Malaria Institute, Brisbane, Australia, ²Jiangsu Institute of
Parasitic Diseases, Wuxi, China, ³Hainan Provincial Center for Disease
Control and Prevention, Haikou, China, ⁴Queensland Institute of Medical
Research, Brisbane, Australia

4:30 p.m.

971

INDEPENDENT EVOLUTION OF MUTANT *DHFR* AND *DHPS* ALLELES IN AN AREA OF HIGH TRANSMISSION IN WESTERN KENYA

Andrea M. McCollum¹, Sean M. Griffing¹, Zhiyong Zhou¹, Dianne J. Terlouw², Simon Kariuki³, Altaf A. Lal¹, Feiko O. ter Kuile², Venkatachalam Udhayakumar¹, Ananias A. Escalante⁴

¹Centers for Disease Control and Prevention/CCID/INZVED/DPD/MB, Atlanta, GA, United States, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴Arizona State University, Tempe, AZ, United States

4:45 p.m.

972

DECLINE IN SULPHADOXINE-PYRIMETHAMINE RESISTANT *DHFR* AND *DHPS* ALLELES AFTER CHANGES IN DRUG POLICY IN THE AMAZON REGION OF PERU

Zhiyong Zhou¹, Sean M. Griffing¹, Alexandre Macedo de Oliveira¹, Andrea M. McCollum¹, Wilmer Marquino Quezada², Nancy Arrospide², Ananias A. Escalante³, Venkatachalam Udhayakumar¹

¹Centers for Disease Control and Prevention, Chamblee, GA, United States, ²National Institute of Health, Lima, Peru, ³Arizona State University, Tempe, AZ, United States

5 p.m.

973

ASSOCIATION OF MUTATIONS IN *PLASMODIUM VIVAX* *DHFR* AND *MDR1* AND *IN VIVO* RESISTANCE TO AMODIAQUINE PLUS SULPHADOXINE-PYRIMETHAMINE IN PAPUA NEW GUINEA

Jutta Marfurt¹, Frédérique de Monbrison², Sarah Brega², Laetitia Barbolat², Ivo Müller³, John C. Reeder³, Hans-Peter Beck¹, Stéphane Picot², Blaise Genton¹

¹Swiss Tropical Institute, Basel, Switzerland, ²Laboratoire de Parasitologie, Mycologie et Pathologie exotique, Université Claude Bernard, Lyon, France, ³Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

5:15 p.m.

974

THE CONTRIBUTION OF MÉDECINS SANS FRONTIÈRES TO THE ASSESSMENT OF EFFICACY OF ANTIMALARIAL TREATMENT, 1996-2004

Jean-Paul Guthmann¹, Francesco Checchi¹, Ingrid Van den Broek², Suna Balkan³, Michel Van Herp⁴, Eric Comte⁵, Oscar Bernal⁶, Jean-Marie Kindermans⁴, Elizabeth Ashley¹, Dominique Legros¹, Philippe J. Guerin¹

¹Epicentre, Paris, France, ²Médecins Sans Frontières, Amsterdam, The Netherlands, ³Médecins Sans Frontières, Paris, France, ⁴Médecins Sans Frontières, Bruxelles, Belgium, ⁵Médecins Sans Frontières, Geneva, Switzerland, ⁶Médecins Sans Frontières, Barcelona, Spain

Symposium 148**The RTS,S Malaria Vaccine: Status and Upcoming Activities on the Pathway to Registration**

Salon F

Wednesday, November 7, 2007 3:45 p.m. - 5:30 p.m.

The RTS,S malaria vaccine has reached Proof of Concept with the demonstration, in a landmark study conducted in Mozambique, of clinical efficacy in one-to-four-year-old children (Alonso et al., *The Lancet* 204, 2005). This milestone triggered an extensive program of Phase 2 studies aimed at confirming and extending the demonstration of efficacy to younger children and infants, evaluation of a new formulation of the vaccine, evaluation of various immunization schedules and assessment of immunological compatibility with co-administered standard EPI antigens. The program will set the stage for conducting a large multicenter Phase 3 study in Africa, scheduled to begin in the first half of 2008. This symposium will summarize the critical results available from the Phase 2 program, present the design and scientific rationale for the pivotal Phase 3 study and describe the multiple and interdependent activities necessary to ensure the timely availability of the vaccine following the completion of the Phase 3 study.

CHAIR

Barbara Savarese

PATH Malaria Vaccine Initiative, Bethesda, MD, United States

Ripley Ballou

GlaxoSmithKline Biologicals, Rixensart, Belgium

3:45 p.m.

RECENT CRITICAL RESULTS OBTAINED IN THE ONGOING PHASE 2 PROGRAM

Eusebio V. Macete

Centro de Investigacao em Saude de Manhica, Manhica, Mozambique

4:10 p.m.

DESIGN OF PIVOTAL PHASE 3 STUDY AND UNDERLYING SCIENTIFIC RATIONALE

Salim Abdulla

Ifakara Health Research and Development Centre, Bagamoyo, United Republic of Tanzania

4:35 p.m.

PRODUCT DEVELOPMENT ROADMAP: FROM INVESTIGATIONAL VACCINE TO PRODUCT REGISTRATION AND IMPLEMENTATION

Alan Brooks

PATH Malaria Vaccine Initiative, Bethesda, MD, United States

5 p.m.

PRODUCT DEVELOPMENT ROADMAP: FROM INVESTIGATIONAL VACCINE TO PRODUCT REGISTRATION AND IMPLEMENTATION

Joe Cohen

GlaxoSmithKline Biologicals, Rixensart, Belgium

Scientific Session 149**Mosquitoes - Biochemistry, Molecular Biology and Molecular Genetics II***Salon II*Wednesday, November 7, 2007
3:45 p.m. - 5:30 PM**CHAIR**

Leon E. Hugo

Queensland Institute of Medical Research, Brisbane, Australia

Roger Miesfeld

*University of Arizona, Tucson, AZ, United States***3:45 p.m.****975****TRANSCRIPTIONAL REGULATION OF PROTEASE GENE EXPRESSION IN THE MIDGUT OF *Aedes aegypti* MOSQUITOES****Roger L. Miesfeld**, Susan Kunz, Jun Isoe, James E. Pennington, James Morton*University of Arizona, Tucson, AZ, United States***4 p.m.****976****FUNCTIONAL CHARACTERIZATION OF LIPID SYNTHESIS, TRANSPORT, AND STORAGE IN *Aedes aegypti* MOSQUITOES****Jorge Zamora**, Kelsey Thorson, James E. Pennington, Jun Isoe, Rolf Ziegler, Roger L. Miesfeld*University of Arizona, Tucson, AZ, United States***4:15 p.m.****977****HEMOZOIN-ACTIVATED INNATE IMMUNE RESPONSES IN *Anopheles* MOSQUITOES****Leyla Akman-Anderson**¹, Martin Olivier², Shirley Luckhart¹¹University of California Davis, Davis, CA, United States, ²McGill University, Montreal, QC, Canada**4:30 p.m.****978****THE REGULATION OF *Anopheles gambiae* FEEDING BEHAVIOR BY ITS CIRCADIAN CLOCK****Suchismita Das**, George Dimopoulos*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States***4:45 p.m.****979****INVESTIGATIONS OF QUANTITATIVE GENE EXPRESSION ANALYSIS AS A METHOD FOR PREDICTING THE AGES OF MOSQUITOES****Leon E. Hugo**¹, Peter E. Cook², Scott L. O'Neill², Brian H. Kay¹, Peter A. Ryan¹¹Queensland Institute of Medical Research, Brisbane, Australia, ²School of Integrative Biology, University of Queensland, Brisbane, Australia**5 p.m.****980****A DENSONUCLEOSIS VIRUS FROM *Anopheles gambiae*****Xiaoxia Ren**, Jason Rasgon*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*

(ACMCIP Abstract)

5:15 p.m.**981****TOWARDS A VACCINE AGAINST CANINE VISCERAL LEISHMANIASIS BASED ON VECTOR SALIVARY ANTIGENS****Nicolas Collin**, Shaden Kamhawi, Regis B. Gomes, Clarissa Teixeira, Dia-eldin Elnaiem, Jesus G. Valenzuela*National Institute of Allergy and Infectious Disease, National Institutes of Health, Rockville, MD, United States*

(ACMCIP Abstract)

Scientific Session 150**Intestinal and Tissue Helminths III: Nematodes***Salon KL*Wednesday, November 7, 2007
3:45 p.m. - 5:30 PM**CHAIR**

James B. Lok

University of Pennsylvania, Philadelphia, PA, United States

Martin Montes

*Instituto de Medicina Tropical 'Alexander von Humboldt, Lima, Peru***3:45 p.m.****982****NEW MECHANISMS IN THE EXPULSION OF GUT NEMATODES: A IMMUNOCYTOCHEMICAL AND MICRO-ARRAY ANALYSIS****Charles Mackenzie**¹, John Stout², Anna Langerveld², Charles Ide², Rob Eversole²¹Michigan State University, Dimondale, MI, United States, ²Western Michigan University, Kalamazoo, MI, United States

4 p.m.

983

SELENIUM (SE) DEFICIENCY DIMINISHES DIAPHORASE ACTIVITY ASSOCIATED WITH ALTERNATIVELY ACTIVATED MACROPHAGES AND BLOCKS RESISTANCE TO *HELIGMOSOMOIDES POLYGYRUS*

Joseph Urban¹, Alan Smith¹, Sebastian Botero¹, Harry Dawson¹, Robert Anthony², William Gause³, Terez Shea-Donohue⁴

¹U.S. Department of Agriculture, Beltsville, MD, United States, ²The Rockefeller University, New York, NY, United States, ³University Medical and Dental School of New Jersey, Newark, NJ, United States, ⁴University of Maryland School of Medicine, Baltimore, MD, United States

(ACMCIP Abstract)

4:15 p.m.

984

EXPRESSION AND INTRA-CELLULAR LOCALIZATION OF FKTF-1 IN TRANSGENIC *STRONGYLOIDES STERCORALIS*

Michelle L. Castelletto, Holman C. Massey, James B. Lok
University of Pennsylvania, Philadelphia, PA, United States

(ACMCIP Abstract)

4:30 p.m.

985

IDENTIFICATION OF DIFFERENCES IN PROTEIN SECRETION FROM INFECTIVE LARVAE AND FREE-LIVING STAGES OF *STRONGYLOIDES RATTI* WITH PUTATIVE RELEVANCE FOR THE FORM OF LIFE

Hanns Soblik¹, Hanno Steen², Makedonka Mitreva³, Nadine Borchert¹, Peter U. Fischer⁴, Yasmina Tazir¹, Norbert W. Brattig¹

¹Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, ²Proteomics Center, Children's Hospital Boston, Boston, MA, United States, ³Genome Sequencing Center, Washington University, St. Louis, MO, United States, ⁴Department of Internal Medicine, Washington University, St. Louis, MO, United States

4:45 p.m.

986

CD4+CD25+FOXP3+ T-REGULATORY CELLS ARE EXPANDED IN HTLV-1 PATIENTS WITH *STRONGYLOIDIASIS*

Martin Montes¹, Cesar Sanchez¹, Eduardo Gotuzzo¹, A. Clinton White²

¹Instituto de Medicina Tropical 'Alexander von Humboldt' Universidad Peruana Cayetano Heredia, Lima, Peru, ²University of Texas Medical Branch in Galveston, Galveston, TX, United States

(ACMCIP Abstract)

5 p.m.

987

EXPRESSION, REFOLDING AND NEUTRALISATION OF CONFORMATIONALLY ACTIVE FORMS OF THE HOOKWORM VACCINE ANTIGEN, NA-APR-1

Mark S. Pearson¹, Darren Pickering¹, Peter Hotez², Alex Loukas¹

¹Queensland Institute of Medical Research, Herston, Queensland, Australia, ²George Washington University, Washington, DC, United States

(ACMCIP Abstract)

5:15 p.m.

988

IMPACT OF MASS DRUG ADMINISTRATION ON THE DEVELOPMENT OF POSSIBLE BENZIMIDAZOLE RESISTANCE OF HUMAN HOOKWORMS IN HAITI

Jan M. Schwenkenbecher¹, Patrick J. Lammie², Ray M. Kaplan¹

¹University of Georgia, Athens, GA, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

Symposium 151

Leishmaniasis: Post-Genome Era

Liberty AB

Wednesday, November 7, 2007 3:45 p.m. - 5:30 p.m.

This symposium is designed to discuss how researchers can take full use of *Leishmania* (*L. major*, *L. infantum* and *L. braziliensis*) and mammals (human and mouse) genome data. Four major aspects will be included. First, genetic explanation for why the three *Leishmania* spp. cause different clinical manifestations, i.e., cutaneous, visceral and mucocutaneous leishmaniasis; second, differential profile of gene expression in the developmental stages of *Leishmania* spp; third, changes in mammalian hosts induced by *Leishmania* spp. infection; and finally, mechanisms of drug resistance in leishmaniasis treatment.

CHAIR

Chaoqun Yao

University of Iowa, and VA Medical Center, Iowa City, IA, United States

3:45 p.m.

FIRST STEPS TOWARDS ELUCIDATING PROTEIN-PROTEIN INTERACTION NETWORKS IN TRYPANOSOMATID PARASITIC PROTOZOA

Gustavo Cerqueira

University of Maryland, College Park, MD, United States

4:10 p.m.

PROTEIN AND RNA CHANGES DURING *LEISHMANIA DONOVANI* PROMASTIGOTE-TO-AMASTIGOTE DIFFERENTIATION

Peter Myler

Seattle Biomedical Research Institute and University of Washington, Seattle, WA, United States

Detailed Program

4:35 p.m.

MICROARRAY ANALYSES OF MACROPHAGE GENE EXPRESSION DURING PHAGOCYTOSIS OF *LEISHMANIA CHAGASI*

Mary E. Wilson

University of Iowa, and VA Medical Center, Iowa City, IA, United States

5 p.m.

MECHANISMS OF DRUG RESISTANCE IN TREATING LEISHMANIASIS

Marc Ouellette

Laval University, Quebec City, QC, Canada

Symposium 152

Filariasis Elimination: Knowing When to Say "When"

Liberty C

Wednesday, November 7, 2007 3:45 p.m. - 5:30 p.m.

The Global Programme to Eliminate Lymphatic Filariasis (GPELF) is largely based on a strategy of mass drug administration (MDA) with antifilarial medications to reduce infection rates and levels in humans below those required for sustained transmission by mosquitoes. Initiated in several countries in 2000, GPELF rapidly expanded to reach more than 380 million people in 2005. This is easily the largest global health intervention initiated to date based on mass drug administration. A number of countries have completed 5 or more rounds of MDA, and GPELF is now facing difficult decisions on targets and endpoints for MDA programs. This symposium will address these timely questions from several different perspectives.

CHAIR

Gary J. Weil

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

Reda M. Ramzy

Ain Shams University, Cairo, Egypt

3:45 p.m.

MEASURING THE GLOBAL PROGRAMME TO ELIMINATE LYMPHATIC FILARIASIS: FROM MAPPING TO MONITORING TO ENDPOINTS

Eric A. Ottesen

Taskforce for Child Survival, Decatur, GA, United States

4:10 p.m.

THE IMPACT OF MASS DRUG ADMINISTRATION ON FILARIASIS PREVALENCE AND TRANSMISSION PARAMETERS WITH PROPOSED ENDPOINTS

Gary J. Weil

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

4:35 p.m.

WHEN CAN MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS BE STOPPED? A MODELING PERSPECTIVE

Wilma A. Stolk

Erasmus MC, Rotterdam, The Netherlands

5 p.m.

TALES FROM THE ENDGAME: RESEARCH PRIORITIES FOR MANAGING LATE STAGES OF FILARIASIS ELIMINATION PROGRAMS

Patrick J. Lammie

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

Symposium 153

Factors Associated on Emergence and Reemerging of Arboviruses

Franklin 1

Wednesday, November 7, 2007 3:45 p.m. - 5:30 p.m.

This symposium will update several aspects on emergence and/or reemergence of certain arboviruses. The speakers will discuss the recent findings on epidemiology, clinical and laboratory of Chikungunya fever, Mayaro fever, Oropouche fever and Rift Valley fever viruses, as well as the factors associated with their emergence/re-emergence and recent widespread to new areas.

CHAIR

Pedro F. Vasconcelos

Instituto Evandro Chagas, Belém, Brazil

Robert B. Tesh

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

3:45 p.m.

CHIKUNGUNYA FEVER

Ann Powers

Centers for Disease Control and Prevention, Fort Collins, CO, United States

4:10 p.m.

MAYARO FEVER

Robert B. Tesh

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

4:35 p.m.

OROPOUCHE FEVER

Márcio R. Nunes

Instituto Evandro Chagas, Belém, Brazil

5 p.m.

RIFT VALLEY FEVER

Tom G. Ksiazek

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

Symposium 154

Integrated Vector Management in Africa - Contributions of Molecular Entomology, Biochemistry and Social Science to Malaria Control

Franklin 2

Wednesday, November 7, 2007 3:45 p.m. - 5:30 p.m.

This symposium is designed to highlight the value of multiple disciplines in the application of integrated vector management for preventing malaria in Africa. The Special Programme for Research and Training in Tropical Diseases (WHO/TDR) and the Multilateral Initiative on Malaria (MIM) support several research programmes on malaria vectors. In Africa, there is increasing use of insecticide-treated bed nets, application of indoor residual spraying and an imminent re-introduction of dichlorodiphenyltrichloroethane (DDT) for vector control. The importance of *Anopheles funestus* in malaria transmission across Africa is also receiving increasing recognition. Results from research across several disciplines being conducted by groups across Africa will be presented. The results are highly relevant for integrated vector management in the Africa and in some cases, already informing the vector management strategy. The implications for malaria transmission and prevention will be discussed.

CHAIR

Olumide Ogundahunsi

World Health Organization, Geneva, Switzerland

Hilary Ranson

Imperial College, London, United Kingdom

3:45 p.m.

SOCIO-CULTURAL PRACTICES AND LONGEVITY/DURATION OF EFFICACY OF INSECTICIDE TREATED BED NETS IN BENIN, BURKINA FASO AND IVORY COAST

Julien M. Doannio

National Institute for Public Health, Abidjan, Cote d'Ivoire

4:15 p.m.

STATUS OF INSECTICIDE RESISTANCE IN KENYA

Luna Kamau

Kenya Medical Research Institute, Nairobi, Kenya

4:35 p.m.

INSECTICIDE SUSCEPTIBILITY DATA IN THE RATIONAL USE OF DDT FOR MALARIA VECTOR CONTROL IN NIGERIA

Taiwo Samson Awolola

Nigerian Institute for Medical Research, Lagos, Nigeria

5 p.m.

THE ECOLOGICAL GENETICS OF THE WEST AFRICAN ANOPHELES FUNESTUS

Sagnon N'Fale

CNRFP, Ouagadougou, Burkina Faso

Scientific Session 155

Viruses II

Franklin 3/4

Wednesday, November 7, 2007

3:45 p.m. - 5:30 PM

CHAIR

Kenneth J. Linthicum

U.S. Department of Agriculture, Gainesville, FL, United States

Kate Rubins

Whitehead Institute, Cambridge, MA, United States

3:45 p.m.

989

FORECASTING THE TEMPORAL AND SPATIAL DISTRIBUTION OF A RIFT VALLEY FEVER OUTBREAK IN EAST AFRICA: 2006-2007

Assaf Anyamba¹, Jean-Paul Chretien², Jennifer Small¹, Compton J. Tucker¹, Pierre Formenty³, Jason Richardson⁴, Seth Britch⁵, **Kenneth J. Linthicum**⁵

¹Goddard Space Flight Center, Biospheric Sciences Branch, Greenbelt, MD, United States, ²Department of Defense Global Emerging Infections Surveillance and Response System, Division of Preventive Medicine, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³Bio-risk Reduction for Dangerous Pathogens, Department of Epidemic and Pandemic Alert and Response, World Health Organization, Geneva, Switzerland, ⁴Department of Entomology and Vector-borne Disease, U.S. Army Medical Research Unit - Kenya, Nairobi, Kenya, ⁵USDA-ARS Center for Medical, Agricultural and Veterinary Entomology, Gainesville, FL, United States

4 p.m.

990

EXAMINATION OF RIFT VALLEY FEVER VIRUS ENTRY DETERMINANTS USING SIRNA

Claire Marie Filone, Robert W. Doms, Sara Cherry

University of Pennsylvania, Philadelphia, PA, United States

4:15 p.m.

991

CHARACTERIZATION OF A NOVEL BRAZILIAN VACCINIA VIRUS ISOLATED FROM HUMAN AND COMPARATIVE ANALYSIS WITH ORTHOPOXVIRUSES

Giliane Trindade¹, Ginny Emerson¹, Scott Sammons², Mike Frace², Dhvani Govil², Melissa Olsen-Rasmussen², Yu Li¹, Darin Carroll¹, Russell Regnery¹, Flavio Guimaraes da Fonseca³, Erna Kroon³, Inger Damon¹

¹CCID/DVRD/IPRB/Centers for Disease Control and Prevention, Atlanta, GA, United States, ²CCID, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Federal University of Minas Gerais State, Belo Horizonte, Minas Gerais, Brazil

(ACMCIP Abstract)

4:30 p.m.

992

PATHOGENESIS OF MONKEYPOX IN CYNOMOLGUS MACAQUES: DEVELOPMENT OF A NON-HUMAN PRIMATE MODEL FOR THERAPEUTIC AND VACCINE TESTING

Kate Rubins¹, Jay Goff², Eric Mucker², Chris Hartmann², David Miller², JoLynne Raymond², John Huggins², Lisa Hensley²
¹Whitehead Institute, Cambridge, MA, United States, ²US Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States

4:45 p.m.

993

EVALUATION OF CATIONIC LIPID DNA COMPLEX (CLDC) IN SMALL ANIMAL MODELS AS A PLATFORM FOR BOTH THERAPEUTIC TREATMENT AND VACCINE DEVELOPMENT FOR ALPHAVIRUS INFECTIONS

Christopher H. Logue¹, Chris Bosio², Steven Dow³, Kenneth E. Olson², Ann M. Powers¹

¹Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²AIDL - Colorado State University, Fort Collins, CO, United States, ³IDA - Colorado State University, Fort Collins, CO, United States

5 p.m.

994

GENETIC CHARACTERIZATION OF HIGHLY PATHOGENIC H5N1 AVIAN INFLUENZA A VIRUSES ISOLATED FROM SOUTHWESTERN NIGERIA

Comfort O. Aiki-Raji¹, **Patricia V. Aguilar**², David Swayne³, Yong-Kuk Kwon³, Sue Goetz³, David L. Suarez³, Oyekanmi Nash⁴, Christopher A. Adeyefa⁵, Festus D. Adu¹, Christopher F. Basler²

¹Department of Virology, University of Ibadan, Oyo State, Nigeria, ²Department of Microbiology, Mount Sinai School of Medicine, New York, NY, United States, ³Southeast Poultry Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture, Athens, GA, United States, ⁴Institute for Advanced Medical Research and Training, College of Medicine, University of Ibadan, Oyo State, Nigeria, ⁵Department of Veterinary Medicine, University of Ibadan, Oyo State, Nigeria

5:15 p.m.

995

GLOBAL TRENDS IN EMERGING INFECTIOUS DISEASES

Peter Daszak¹, Kate Jones², Marc Levy³, John Gittleman⁴, Nikki Patel¹, Valentina Mara³, Sara F. Nakielny⁵, Joanne Chan⁵, Maria N. Labo⁵

¹Consortium for Conservation Medicine, New York, NY, United States, ²Institute of Zoology, London, United Kingdom, ³Center for International Earth Science Information Network, Palisades, NY, United States, ⁴University of Georgia, Athens, GA, United States, ⁵Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Plenary Session IV: Presidential Address and Annual Business Meeting

Salon GH

Wednesday, November 7, 2007 6 p.m. - 7:30 p.m.

ASTMH presidential address and annual business meeting.

CHAIR

George Hillyer

University of Puerto Rico School of Medicine, San Juan, PR, United States

Edward T. Ryan

Massachusetts General Hospital, Boston, MA, United States

6 p.m.

INTRODUCTION

Richard W. Steketee

PATH Malaria Control and Evaluation Partnership in Africa, Seattle, WA, United States

6:15 p.m.

AFRICA TELLS US THE STORY: WHAT SUCCESS IN MALARIA CONTROL MEANS, NOW AND IN THE FUTURE

Carlos C. (Kent) Campbell

PATH Malaria Control and Evaluation Partnership in Africa (MACEPA), Seattle, WA, United States

6:45 p.m.

ASTMH ANNUAL BUSINESS MEETING

George Hillyer

University of Puerto Rico School of Medicine, San Juan, PR, United States

Poster Session C Dismantle

Franklin Hall B

Wednesday, November 7, 2007

7 p.m. - 8 p.m.

Thursday, November 8

Registration

Grand Ballroom Foyer

Thursday, November 8, 2007 7 a.m. - 10:30 a.m.

Cyber Cafe

Franklin Hall Foyer

Thursday, November 8, 2007 7 a.m. - 10:30 a.m.

Speaker Ready Room

Rooms 413-415

Thursday, November 8, 2007 7 a.m. - Noon

ASTMH Council Meeting

Rooms 303-304

Thursday, November 8, 2007 7:30 a.m. - 9:30 a.m.

Press Room

Room 404

Thursday, November 8, 2007 8 a.m. - 2 p.m.

Scientific Session 157

Kinetoplastida II: Epidemiology, Diagnosis and Treatment

Salon AB

Thursday, November 8, 2007
8 a.m. - 9:45 a.m.

CHAIR

Mark L. Wilson

University of Michigan School of Public Health, Ann Arbor, MI, United States

Michael J. Yabsley

University of Georgia, Athens, GA, United States

8 a.m.

996

COMPARISON OF BLOOD DONOR CHAGAS RISK ACROSS 3 CALIFORNIA SITES

Leslie S. Wilson¹, Janine Ramsey², Christi Motter¹, Leslie H. Tobler³, Leopoldo Valiente-Banuet⁴, Rene T. Leyva², Yelena B. Koplowitz¹, Sagrario Romero-Estrella⁴

¹University of California at San Francisco, San Francisco, CA, United States,

²National Institute for Public Health, Cuernavaca, Mexico, ³Blood Systems

Research Institute, San Francisco, CA, United States, ⁴National Center for

Blood Transfusion, Mexico City, Mexico

8:15 a.m.

997

ACUTE CHAGAS DISEASE (ACD) OUTBREAK RELATED TO SUGAR CANE JUICE DRUNK IN SANTA CATARINA STATE, SOUTH BRASIL

Erica Tatto¹, José A. Menezes¹, Beatriz Y. Kitagawa¹, Daniel Freitas¹, George S. Dimech¹, Marcelo Y. Wada¹, Marcos T. Obara¹, Andreza Madeira², Suzana Zeccer², Fernanda Laupert³, Marli Aguiar³, Mario Steindel⁴, Douglas Hatch⁵

¹Ministry of Health - Brasil, Brasilia, Brazil, ²State Secretariat of Health, Santa Catarina, Brazil, ³Central Laboratory of Public Health, Santa Catarina State, Brazil, ⁴Federal University of Santa Catarina State, Santa Catarina State, Brazil, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m.

998

EPIDEMIOLOGY OF *TRYPANOSOMA CRUZI* FROM THE SOUTHEASTERN UNITED STATES

Michael J. Yabsley, Dawn M. Roellig, Emily M. Brown, Wendy Fujita, Mason Y. Savage

University of Georgia, Athens, GA, United States

(ACMCIP Abstract)

8:45 a.m.

999

THE ROLE OF SOCIAL EXCLUSION AND DEFORESTATION IN THE SPATIO-TEMPORAL PATTERNS OF CUTANEOUS LEISHMANIASIS IN COSTA RICA

Luis F. Chaves, Justin M. Cohen, Mercedes Pascual, Mark L. Wilson
University of Michigan, Ann Arbor, MI, United States

9 a.m.

1000

CLIMATE VARIABILITY AND LEISHMANIASIS IN COLOMBIA

Rocio Cardenas¹, Claudia Sandoval², **Alfonso J. Rodriguez-Morales**³, Carlos Franco-Paredes⁴

¹Instituto Departamental de Salud de Norte de Santander, Cucuta, Colombia, ²Grupo de Investigación en Enfermedades Parasitarias, Tropicales e Infecciosas, Instituto de Investigación en Ciencias Biomédicas, Universidad de Pamplona, Pamplona, Colombia, ³Universidad de Los Andes, Trujillo, Venezuela, ⁴Emory University, Atlanta, GA, United States

9:15 a.m.

1001

EFFICACY OF MILTEFOSINE FOR BOLIVIAN CUTANEOUS LEISHMANIASIS

Jaime Soto¹, J. Rea², M. Balderrama², J. Toledo¹, J. Soto¹, L. Valda³, **Josh Berman**⁴

¹Fundación FADER, Bogota, Colombia, ²Puesto de Salud, Campamento OSCAR, Palos Blancos, Colombia, ³Hospital de Clínicas, La Paz, Bolivia, ⁴Private Practice, North Bethesda, MD, United States

Thursday, November 8

9:30 a.m.

1002

PARASITE TUBULIN AS A DRUG TARGETKarl Werbovets¹, Molla Endeshaw¹, Rachel Morgan¹, Chenglong Li¹, Karthikeyan Diraviyam², David Sept²¹The Ohio State University, Columbus, OH, United States, ²Washington University, St. Louis, MO, United States**Symposium 158****Roles of CD8 T Cells in the Control of Parasitic Infections**

Salon CD

Thursday, November 8, 2007 8 a.m. - 9:45 a.m.

This symposium is designed to review and update progress in the effort to understand the underlying mechanisms by which CD8 T cells contribute to the control of parasitic diseases, and also new approaches for the targeting of CD8 T cells in vaccine development. This topic should be of general interest to ASTMH members who are concerned with vaccine development and pathogenesis (viral, bacterial, as well as parasitic).

CHAIR

Diane McMahon-Pratt

Yale University, New Haven, CT, United States

Fidel Zavala

Johns Hopkins University, Baltimore, MD, United States

8 a.m.

GENERATION OF EFFECTOR CD8 T CELL IMMUNITY AGAINST ORAL T. GONDII INFECTION

Imitiaz Khan

George Washington University Medical Center, Washington, DC, United States

8:25 a.m.

GENERATION OF IMMUNODOMINANT CD8+ T CELL POPULATIONS DURING *TRYPANOSOMA CRUZI* INFECTION

Diana Martin

University of Georgia, Athens, GA, United States

8:50 a.m.

ARE LEISHMANIA PARASITES LIMITING THE DEVELOPMENT OF PROTECTIVE T-CELL RESPONSES?

Simona Stager

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

9:15 a.m.

PROTECTIVE AND PATHOGENIC ROLES OF CD8+ T CELLS DURING MALARIA INFECTION

Fidel Zavala

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

Scientific Session 159

Clinical Tropical Medicine III

Salon E

Thursday, November 8, 2007

8 a.m. - 9:45 a.m.

CHAIR

Christina A. Greenaway

SMBD Jewish General Hospital, Montreal, QC, Canada

Parsotam R. Hira

Kuwait University, Kuwait City, Kuwait

8 a.m.

1003

THE EFFECT OF COMPLIANCE UPON CLINICAL EFFECTIVENESS OF CHLORPROGUANIL-DAPSONE (CD) AND ARTEMETHER-LUMEFANTRINE (AL) WHEN COMPARED TO SULFADOXINE-PYRIMETHAMINE (SP) FOR THE TREATMENT OF UNCOMPLIATED FALCIPARUM MALARIA IN MALAWI - A RANDOMISED CONTROLLED TRIALDavid J. Bell¹, Dan Wootton¹, Mavuto Mukaka², Jacqui Montgomery², Noel Kayange³, Phillips Chimpeni², Edward Zijlstra³, Dyfrig A. Hughes¹, Malcolm E. Molyneux², Steve A. Ward⁴, Peter A. Winstanley¹, David G. Lalloo⁴¹University of Liverpool, Liverpool, United Kingdom, ²Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ³College of Medicine, Blantyre, Malawi, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:15 a.m.

1004

RESULTS OF A RANDOMISED, MULTICENTRE, PHASE II, DOSE-RANGING CLINICAL STUDY TO ASSESS THE SAFETY AND EFFICACY OF FIXED DOSE, ORALLY ADMINISTERED PYRONARIDINE AND ARTESUNATE IN ADULT PATIENTS WITH ACUTE UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA

Presented by Srivicha Krudsood, Mahidol University, Bangkok, Thailand

Sornchai Looareesuwan¹, Oumar Gaye², Emiliana Tjitra³, Kalifa Bojang⁴, Duong Socheat⁵, Patrice Piola⁶¹Bangkok Hospital for Tropical Diseases, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ²Department of Parasitology, Faculty of Medicine, University Cheikh Anta Diop, Dakar, Senegal, ³Bethesda Hospital, Tomohon, North-Sulawesi, Indonesia, ⁴Medical Research Council, Fajara, Banjul, Gambia, ⁵National Malaria Center, Phnom Penh, Cambodia, ⁶MSF Epicentre, Mbarara, Uganda

8:30 a.m.

1005

EFFICACY OF ARTESUNATE-AMODIAQUINE (ASAQ) FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN SUB-SAHARAN AFRICA: AN INDIVIDUAL PATIENT DATA META ANALYSIS (IPDM) IN 3,455 PATIENTS

Julien Zwang¹, Piero Luigi Olliaro², François Nosten¹, H Barennes³, P. Brasseur³, G. Dorsey³, J.P. Guthmann³, A Martensson³, U D'Alessandro³, M Vaillant³

¹Shoklo Malaria Research Unit, Mahidol University, Mae Sot, Thailand, ²TDR/WHO, Geneva, Switzerland, ³ASAQ, Study Group, Switzerland

8:45 a.m.

1006

QTC INTERVAL CHANGES FOLLOWING MEFLOROQUINE AND ARTESUNATE COMBINATIONS IN MALARIA PATIENTS AND NORMAL VOLUNTEERS.

Walter Taylor¹, Srivicha Krudsood², Noppadom Tangpukdee², P. Wilairatama², Sornchai Looareesuwan², U. Silachamroon², Suresh Ramanathan³, V. Navaratnam³, Michel Vaillant⁴, JR Kiechel⁵

¹Oxford University, Hanoi, Vietnam, ²Mahidol University, Bangkok, Thailand, ³Universiti Sains Malaysia, Penang, Malaysia, ⁴Centre for Health Studies, CRP-SANTE, Luxembourg, ⁵Drugs for Neglected Diseases, Geneva, Switzerland

9 a.m.

1007

PHARMACOKINETICS AND EFFICACY OF PIPERAQUINE AND CHLOROQUINE IN MELANESIAN CHILDREN WITH UNCOMPLICATED MALARIA

Harin A. Karunajeewa¹, Kenneth F. Ilett¹, Ivo Mueller², Peter Siba², Madhu Page-Sharp¹, Enmoore Lin², Jovitha Lammey², Kevin T. Batty³, Timothy M. Davis¹

¹School of Medicine and Pharmacology, University of Western Australia, Perth, Australia, ²Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, ³School of Pharmacy, Curtin University, Perth, Australia

9:15 a.m.

1008

DOXYCYCLINE HYCLATE TOLERABILITY AND COMPLIANCE AS DAILY ORAL MALARIA PROPHYLAXIS IN FIELD CONDITIONS: EXPERIENCE OF THE 10TH MOUNTAIN DIVISION (LI), OEF VII

David Saunders¹, Eric Garges¹, Andrew Kosmowski², Kent Bennett¹, Steven Cersovsky¹, Robert Mott¹, Alan Magill¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Fort Drum, Fort Drum, NY, United States

9:30 a.m.

1009

LICENSED CGMP INTRAVENOUS ARTESUNATE AVAILABILITY IN THE DEVELOPED WORLD: LIGHT FINALLY AT THE END OF THE TUNNEL

Peter J. Weina¹, R. Scott Miller¹, Rudolf Kuppers², Gianfranco Fornasini³, Wilbur K. Milhous¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States,

²Military Infectious Diseases Research Program, Fort Detrick, MD, United States,

³Sigma-Tau Pharmaceuticals Inc., Gaithersburg, MD, United States

Symposium 160

Japanese Encephalitis Update and Progress on Surveillance and Disease Control in Endemic Settings

Salon F

Thursday, November 8, 2007 8 a.m. - 9:45 a.m.

The symposium will update on recent progress in JE surveillance, diagnostic development, disability assessment and vaccine introduction and impact. New data will be shared from integrated meningo-encephalitis surveillance in JE endemic countries, Cambodia and China. We will also discuss new tools to estimate and quantify disability in JE-affected patients. Finally, we will review new data on immunization impact from the introduction of JE vaccine and post-marketing surveillance in India and Nepal.

CHAIR

Marc Fischer

Centers for Disease Control and Prevention, Fort Collins, CO, United States

Susan Hills

PATH, Seattle, WA, United States

8 a.m.

JE DISABILITY ASSESSMENT IN ENDEMIC COUNTRIES AND VALIDATION OF A SIMPLIFIED TOOL

Tom Solomon

University of Liverpool, Liverpool, United Kingdom

8:30 a.m.

JE DIAGNOSTICS FOR SUPPORT OF SURVEILLANCE IN DEVELOPING COUNTRIES

Barbara W. Johnson

Centers for Disease Control and Prevention, Fort Collins, CO, United States

8:55 a.m.

JE SURVEILLANCE THROUGH INTEGRATED MENINGO-ENCEPHALITIS SURVEILLANCE

Susan Hills

PATH, Seattle, WA, United States

9:20 a.m.

JE VACCINES: AN UPDATE AND RECENT DEVELOPMENTS

Mansour Yaich

PATH, Seattle, WA, United States

Detailed Program

Scientific Session 161

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Molecular Parasitology I

Supported with funding from The Burroughs Wellcome Fund

Salon G

Thursday, November 8, 2007
8 a.m. - 9:45 a.m.

CHAIR

Nirbhay Kumar

Johns Hopkins University, Baltimore, MD, United States

Steven Williams

Smith College/University of Massachusetts, Northampton, MA, United States

8 a.m.

1073

CHARACTERIZATION OF THE APIAP2 DNA-BINDING PROTEINS IN PLASMODIUM FALCIPARUM

Erandi DeSilva¹, Jasdave Chahal¹, Ilsa Leon¹, Andrew Gehrke², Martha Bulyk², Manuel Llinas¹

¹Princeton University, Princeton, NJ, United States, ²Brigham and Women's Hospital and Harvard Medical School, Boston, MA, United States

8:15 a.m.

1074

POLYADENYLATION STABILIZES TRANSLATIONALLY-COMPETENT MRNAS IN TRYPANOSOME MITOCHONDRIA

Ronald Etheridge, Inna Aphasizheva, Ruslan Aphasizhev

Department of Microbiology and Molecular Genetics, University of California at Irvine, Irvine, CA, United States

8:30 a.m.

1010

PIGGYBAC TRANSPOSON MEDIATED TRANSGENESIS OF THE HUMAN BLOOD FLUKE, *SCHISTOSOMA MANSONI*

Maria E. Morales¹, Victoria H. Mann², Kristine J. Kines¹, Geoffrey Gobert³, Malcolm J. Fraser⁴, Bernd H. Kalinna⁵, Jason M. Correnti⁶, Edward J. Pearce⁶, Paul J. Brindley¹

¹Department of Tropical Medicine, and Biomedical Sciences Program, Tulane University Health Sciences Center, New Orleans, LA, United States, ²Department of Tropical Medicine, Tulane University Health Sciences Center, New Orleans, LA, United States, ³Division of Infectious Diseases and Immunology, Queensland Institute of Medical Research, Brisbane, Queensland, Australia, ⁴Department of Biological Sciences, University of Notre Dame, South Bend, IN, United States, ⁵Centre for Animal Biotechnology, Faculty of Veterinary Science, The University of Melbourne, Parkville, Victoria, Australia, ⁶Department of Pathobiology, School of Veterinary Medicine, University of Philadelphia, Philadelphia, PA, United States

8:45 a.m.

1011

EVIDENCE OF GENE-SPECIFIC TRANSCRIPTIONAL SILENCING BY RNAI IN *STRONGYLOIDES STERCORALIS*

Xinshe Li, **James B. Lok**

University of Pennsylvania, Philadelphia, PA, United States

9 a.m.

1012

DEVELOPMENT OF TRANSGENIC *PLASMODIUM BERGHEI* EXPRESSING *P. FALCIPARUM* SEXUAL ANTIGEN PFS25 FOR *IN VIVO* ASSESSMENT OF TRANSMISSION BLOCKING IMMUNITY

Godfree Mlambo, Jorge Maciel, Nirbhay Kumar

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

9:15 a.m.

1013

STAGE-SPECIFIC REGULATION OF TRANSCRIPTIONAL ACTIVITY IN *PLASMODIUM FALCIPARUM* DURING THE INTRAERYTHROCYTIC DEVELOPMENTAL CYCLE

Jennifer S. Sims¹, Kevin T. Militello², Peter A. Sims³, Vishal P. Patel¹, Jacob M. Kasper¹, Dyann F. Wirth¹

¹Harvard School of Public Health, Boston, MA, United States, ²State University of New York - Geneseo, Geneseo, NY, United States, ³Harvard University, Cambridge, MA, United States

9:30 a.m.

1014

STAGE-SPECIFIC DETECTION OF *BRUGIA MALAYI* INFECTIVE LARVAE IN MOSQUITOES

Sandra J. Laney¹, Caitlin Buttarro¹, Sabato Visconti¹, Gary J. Weil², Reda Ramzy³, Steven A. Williams¹

¹Smith College, Northampton, MA, United States, ²Washington University School of Medicine, St. Louis, MO, United States, ³Ain Shams University, Cairo, Egypt

Scientific Session 162

Malaria - Biology and Pathogenesis I

Salon H

Thursday, November 8, 2007
8 a.m. - 9:45 a.m.

CHAIR

Ambroise D. Ahouidi

Le Dantec Hospital and Cheikh Anta Diop, Dakar, Senegal

Miranda Oakley

National Institutes of Health/National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

8 a.m.

1015

SELECTION OF MUTATED *PLASMODIUM FALCIPARUM* MALARIA PARASITES FOR LONG-LIVED INVASIVE MEROZOITES BY LIMITING THEIR CONTACT WITH ERYTHROCYTES (RBC) USING LOW RBC CONCENTRATIONS IN CONTINUOUS MOTION SUSPENSION CULTURES

J. David Haynes, J. Kathleen Moch, Jack L. Komisar, Jeffrey D. Snavely

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

(ACMCIP Abstract)

8:15 a.m.

1016

APOPTOSIS STALKS AN EXPONENTIALLY GROWING *PLASMODIUM FALCIPARUM* CULTURE

Beth K. Mutai, John N. Waitumbi

Walter Reed Project/Kenya Medical Research Institute, Kisumu, Kenya

(ACMCIP Abstract)

8:30 a.m.

1017

MOLECULAR MARKERS OF THE PATHOGENESIS OF CEREBRAL MALARIA IN THE MURINE MALARIA *PLASMODIUM BERGHEI*

Miranda Oakley¹, Laurence Faucette¹, Victoria Majam², Hong Zheng², Babita Mahajan², Cindy Erexson¹, Jerrold Ward¹, Thomas McCutchan¹, Sanjai Kumar²

¹National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²FDA, Rockville, MD, United States

(ACMCIP Abstract)

8:45 a.m.

1018

APOPTOSIS-RELATED AND INTERFERON-RESPONSIVE TRANSCRIPTS CHARACTERIZE DIFFERENTIAL WHOLE BRAIN RESPONSES IN RESISTANCE AND SUSCEPTIBILITY TO EXPERIMENTAL CEREBRAL MALARIA

Fiona E. Lovegrove¹, Sina A. Gharib², Samir N. Patel¹, W. Conrad Liles¹, Kevin C. Kain¹

¹McLaughlin-Rotman Center for Global Health, University of Toronto, Toronto, ON, Canada, ²University of Washington, Seattle, WA, United States

(ACMCIP Abstract)

9 a.m.

1019

ISOLATION OF HOST RESISTANCE FACTORS TO LIVER STAGE *PLASMODIUM BERGHEI* INFECTION BY GENETIC MAPPING

Lígia A. Gonçalves¹, Maria M. Mota², Carlos Penha-Gonçalves¹

¹Instituto Gulbenkian de Ciência, Oeiras, Portugal, ²Instituto de Medicina Molecular, Lisboa, Portugal

(ACMCIP Abstract)

9:15 a.m.

1020

REGULATION OF *PLASMODIUM FALCIPARUM* GLYCOSYLPHOSPHATIDYLINOSITOL-INDUCED CYTOKINE RESPONSES BY MAPK-ACTIVATED PROTEIN KINASE 2 AND P38 MAPK

Jianzhong Zhu, Gowdahalli Krishnegowda, D. Channe Gowda
Pennsylvania State University College of Medicine, Hershey, PA, United States

(ACMCIP Abstract)

9:30 a.m.

1021

MOLECULAR AND IMMUNOLOGICAL ANALYSES OF A MAJOR SEQUENCE POLYMORPHISM IN THE *PLASMODIUM FALCIPARUM* INVASION LIGAND PFRH2B

Ambroise D. Ahouidi¹, Amy K. Bei², Cameron V. Jennings², Ousmane Sarr¹, Omar Ndir¹, Dan A. Milner², Sarah K. Volkman², Terrie E. Taylor³, Zul Premji⁴, Dyann F. Wirth², Souleymane Mboup¹, Manoj T. Duraisingh²

¹Le Dantec Hospital and Cheikh Anta Diop University, Dakar, Senegal, ²Harvard School of Public Health, Boston, MA, United States, ³University of Malawi College of Medicine, Blantyre, Malawi, ⁴Muhimbili University College of Health Sciences, Dar es Salaam, United Republic of Tanzania

(ACMCIP Abstract)

Scientific Session 163

Arthropods/Entomology

Salon II

Thursday, November 8, 2007

8 a.m. - 9:45 a.m.

CHAIR

Abdoulaye Diabate

National Institutes of Health, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

Gabriella Gibson

Natural Resources Institute, Chatham Maritime, Kent, United Kingdom

8 a.m.

1022

SWARM SEGREGATION IS THE MAIN MECHANISM THAT PREVENTS MATING BETWEEN SYMPATRIC MOLECULAR FORMS OF ANOPHELES GAMBIAE

Abdoulaye Diabate¹, Adama Dao², Alpha S. Yaro², Adamou Alpha², S. Cheick Traore², Rodrigo Gonzalez¹, Bob Gwadz¹, Tovi Lehmann¹

¹Laboratory of Malaria and Vector Research/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ²MRTC, Bamako, Mali

8:15 a.m.

1023

AUDITORY INTERACTIONS BETWEEN MALES AND FEMALES OF MEDICALLY IMPORTANT *CULEX* SPECIESGabiella Gibson¹, Ben Warren², Ian J. Russell²¹Natural Resources Institute, Chatham Maritime, Kent, United Kingdom,²University of Sussex, Falmer, Brighton, United Kingdom

8:30 a.m.

1024

A NEW ROBUST DIAGNOSTIC POLYMERASE CHAIN REACTION (PCR) FOR DETERMINING THE MATING STATUS OF FEMALE AN. GAMBIAE MOSQUITOESKija R. Ng'habi¹, Ashley Horton², Bart GJ Knols³, Gregory C. Lanzaro²¹Ifakara Health Research and Development Centre, Morogoro, United Republic of Tanzania, ²University of California, Davis, CA, United States,³Wageningen University and Research Centre, Wageningen, The Netherlands

8:45 a.m.

1025

COMPARISON OF KAIROMONES UTILIZED BY SEVERAL MEDICALLY IMPORTANT INSECT AND TICK TAXA

Daniel L. Kline

USDA-ARS, CMAVE, Gainesville, FL, United States

9:00 a.m.

1027

A MEANS TO AN END: COMPARATIVE ANALYSIS OF CHROMOSOMAL INVERSIONS FREQUENCY AND DISTRIBUTION IN THE MAJOR MALARIA VECTORS *ANOPHELES GAMBIAE* AND *ANOPHELES FUNESTUS* ACROSS ECOLOGICALLY DIVERSE ENVIRONMENTS IN CAMEROONDiego Ayala¹, Kenji Ose², Jean Pierre Agbor³, Carlo Costantini⁴, Nora J. Besansky⁵, Frederic Simard³, Didier Fontenille¹¹Institut de Recherche pour le Développement, Unité de Recherche R016, Montpellier, France, ²Institut de Recherche pour le Développement, Unité de Service US140, Orleans, France, ³Organisation de coordination pour la lutte contre les grandes endémies en Afrique centrale, Yaounde, Cameroon,⁴Institut de Recherche pour le Développement, Unité de Recherche R016, Bobo-dioulasso, Burkina Faso, ⁵Center for Global Health and Infectious Diseases, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States

9:15 a.m.

1028

CHROMOSOMAL EVOLUTION IN MALARIA MOSQUITOES OF SUBGENUS *CELLIA*

Igor V. Sharakhov, Maria V. Sharakhova, Ai Xia

Virginia Tech, Blacksburg, VA, United States

Symposium 164**Larval Source Management Field Trials I**

Salon KL

Thursday, November 8, 2007 8 a.m. - 9:45 a.m.

Five major field trials investigating the impact of microbial larvicides on reducing malaria transmission and clinical malaria have been in progress in different parts of Africa over the past three years. These studies, supported by NIH and United States Agency for International Development through RTI, will help inform policymakers about the value of these interventions and guide major larval control operations presently underway or planned for the future. In this session the results of major field studies using microbial larvicides in The Gambia, Kenya, Eritrea and Tanzania will be presented.

CHAIR

Steve W. Lindsay

Durham University, Durham City, United Kingdom

8 a.m.

MALARIA CONTROL WITH MICROBIAL LARVICIDES IN RURAL GAMBIA

Silas Majambere

Durham University, Durham, United Kingdom

8:30 a.m.

MALARIA CONTROL WITH LARVICIDES IN MWEA IRRIGATION SCHEME, KENYA

Robert J. Novak

Illinois Natural History Survey, Champaign, IL, United States

8:55 a.m.

MALARIA CONTROL USING MICROBIAL LARVICIDES IN ERITREA

Josephat I. Shililu

ICIPE, Nairobi, Kenya

9:20 a.m.

MALARIA CONTROL USING LARVICIDES IN DAR ES SALAAM, TANZANIA

Gerry F. Killeen

Durham University, Durham, United Kingdom

Coffee Break

Franklin Hall Foyer

Thursday, November 8, 2007 9:45 a.m. - 10:15 a.m.

Scientific Session 165**Schistosomiasis III - Molecular Biology***Salon AB*Thursday, November 8, 2007
10:15 a.m. - Noon**CHAIR**

W. Evan Secor

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

Timothy Yoshino

*University of Wisconsin, Madison, WI, United States***10:15 a.m.****ROLE OF TGF-BETA IN SCHISTOSOME EGG DEVELOPMENT****Edward Pearce***University of Pennsylvania, Philadelphia, PA, United States***10:45 a.m.****1029****TRANSCRIPTOME ANALYSIS OF *BIOMPHALARIA GLABRATA*, SNAIL HOST OF *SCHISTOSOMA MANSONI*****Coenraad M. Adema**, Cheng-Man Lun, Ben Hanelt*University of New Mexico, Albuquerque, NM, United States*

(ACMCIP Abstract)

11 a.m.**1030****GENE CLONING AND FUNCTIONAL CHARACTERIZATION OF A TANDEM-REPEAT GALECTIN FROM CELLS OF THE *BIOMPHALARIA GLABRATA* EMBRYONIC (BGE) CELL LINE****Nathalie Dinguirard**, John Kunert, Timothy P. Yoshino*University of Wisconsin-Madison, Madison, WI, United States*

(ACMCIP Abstract)

11:15 a.m.**1031****NOVEL MODULATORY ACTIONS OF SCHISTOSOME CALCIUM CHANNEL β SUBUNITS ON VOLTAGE-GATED CALCIUM CURRENTS**Vicenta Salvador-Recatala¹, Toni Schneider²,**Robert M. Greenberg**¹¹*Marine Biological Laboratory, Woods Hole, MA, United States*,²*University of Cologne, Cologne, Germany***11:30 a.m.****1032****IDENTIFICATION AND CHARACTERIZATION OF A R-SMAD ORTHOLOGUE (SMSMAD1B) FROM *SCHISTOSOMA MANSONI***Joelle M. Carlo¹, Ahmed Osman², Edward G. Niles¹, Wenjie Wu¹, Marcelo R. Fantappie², Francisco M. Oliveira², **Philip T. LoVerde**²¹*State University of New York, Buffalo, NY, United States*, ²*University of Texas Health Science Center, San Antonio, TX, United States***11:45 a.m.****1033****IDENTIFICATION BY SUPPRESSION SUBTRACTIVE HYBRIDIZATION OF IMMEDIATE RESPONSE-GENES DOMINANTLY EXPRESSED IN *BIOMPHALARIA GLABRATA* SNAILS UPON EXPOSURE TO *SCHISTOSOMA MANSONI* INFECTION****Wannaporn Ittiprasert**¹, Andre Miller¹, Vish Nene², Najib El-Sayed³, Jocelyn Celeste Myers¹, Matty Knight¹¹*Biomedical Research Institute, Rockville, MD, United States*, ²*University of Maryland School of Medicine, Baltimore, MD, United States*, ³*University of Maryland, College Park, MD, United States***Scientific Session 166****Mosquitoes - Vector Biology - Epidemiology III***Salon CD*

Thursday, November 8, 2007 10:15 a.m. - Noon

CHAIR

Ludmel E. Urdaneta

*Colorado State University, Fort Collins, CO, United States***10:15 a.m.****1036****INTEGRATED VECTOR MANAGEMENT FOR THE PREVENTION OF MALARIA IN WESTERN KENYA: INTERACTIONS OF LARVAL CONTROL AND INTENSIVE ITN IMPLEMENTATION ON *ANOPHELES GAMBIAE* DENSITY****Nabie Bayoh**¹, Edward D. Walker², John Gimnig³, Francis Mutuku¹, John Vulule¹, Mary Hamel⁴¹*Kenya Medical Research Institute, Kisumu, Kenya*, ²*Michigan State University, East Lansing, MI, United States*, ³*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁴*Centers for Disease Control and Prevention/IKEMRI, Kisumu, Kenya***10:30 a.m.****1037*****ANOPHELES GAMBIAE* GUT FLORA DYNAMICS AND MICROARRAY ANALYSIS OF GUT GENE EXPRESSION IN RESPONSE TO BACTERIA****Alvaro Molina-Cruz**, Sara Leszczynski, Lalita Gupta, Sanjeev Kumar, Randall DeJong, Georges Ndikuyeze, Carolina Barillas-Mury
*National Institutes of Health, Bethesda, MD, United States***10:45 a.m.****1038****INTROGRESSION OF THE CARB77 TRANSGENE INTO A GENETICALLY DIVERSE LABORATORY STRAIN OF *Aedes Aegypti* FROM TAPACHULA, CHIAPAS STATE, MEXICO****Ludmel Urdaneta-Marquez**¹, Michael Salasek¹, Alexander W.E. Franz¹, Ken E. Olson¹, Janine M. Ramsey², William C. Black¹¹*Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, CO, United States*, ²*Instituto Nacional de Salud Publica, Centro de Investigacion de Paludismo, Tapachula, Mexico*

Detailed Program

11 a.m.

1039

TRANSCRIPTOMIC ANALYSIS AND TEMPORAL EXPRESSION PROFILING OF THE MIDGUT OF THE SAND FLY *LUTZOMYIA LONGIPALPIS* IN BLOOD FEEDING AND INFECTION WITH *LEISHMANIA CHAGASI*

Ryan C. Jochim¹, Clarissa R. Teixeira², Regis B. Gomes², Andre Laughinghouse², Dia-eldin Elnaiem², Jianbing Mu², Luiz F. Oliveira², Jesus G. Valenzuela²

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

11:15 a.m.

1040

IDENTIFICATION OF MALE SPECIMENS OF *CULEX PIPIENS* COMPLEX (DIPTERA: CULICIDAE) MOSQUITOES BY MORPHOMETRIC INVESTIGATION OF THE PHALLOSOMES AND BY MOLECULAR TECHNIQUES

Yibayiri O. Sanogo¹, Chang-Hyun Kim¹, Richard Lampman¹, Jake G. Halvorsen¹, Adel M. Gad², Robert J. Novak³

¹Illinois Natural History Survey, Champaign, IL, United States, ²Research and Training Center on Vectors of Diseases, Ain Shams University, Cairo, Egypt, ³University of Alabama, Birmingham, Division of Infectious Diseases, AL, United States

Scientific Session 167

Clinical Tropical Medicine IV

Salon E

Thursday, November 8, 2007

10:15 a.m. - Noon

CHAIR

Tom Solomon

University of Liverpool, Liverpool, United Kingdom

Anastacio Q. Sousa

Federal University of Ceara, Charlottesville, VA, United States

10:15 a.m.

1041

LONG-TERM OUTCOMES OF JAPANESE ENCEPHALITIS IN BANGLADESH

James J. Sejvar¹, Jahangir Hossain², Marc Fischer³, Emily Gurley², Sankar Kuma Saha⁴, Stephen P. Luby²

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²International Center for Diarrhoeal Disease Research, B, Dhaka, Bangladesh, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States, ⁴Dhaka Medical College Hospital, Dhaka, Bangladesh

10:30 a.m.

1042

A COHORT STUDY TO ASSESS THE NEW WHO JAPANESE ENCEPHALITIS SURVEILLANCE STANDARDS

Tom Solomon¹, Thi Thu Thao², Penelope Lewthwaite¹, Mong How Ooi¹, Rachel Kneen¹, Nguyen Minh Dung², Nicholas White³

¹Viral Brain Infections Group, University of Liverpool, Liverpool, United Kingdom, ²The Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ³University of Oxford-Wellcome Trust Clinical Research Unit, Ho Chi Minh City, Vietnam

10:45 a.m.

1043

EPIDEMIC CHIKUNGUNYA FEVER, INDIA AND INDIAN OCEAN, 2006: LABORATORY-BASED SURVEILLANCE FOR IMPORTED CASES, UNITED STATES

Eileen C. Farnon, Amanda J. Panella, Roselyn Hochbein, Olga L. Kosoy, Janeen J. Laveen, Robert S. Lanciotti, Grant L. Campbell

Centers for Disease Control and Prevention, Fort Collins, CO, United States

11 a.m.

1044

PERSISTENT SEROPREVALENCE OF *ANAPLASMA PHAGOCYTOPHILUM* IN NEW ENGLAND BLOOD DONORS

Melanie C. Proctor¹, David A. Leiby¹, Stephanie T. Johnson², Richard G. Cable²

¹American Red Cross Holland Laboratory, Rockville, MD, United States,

²American Red Cross, Farmington, CT, United States

(ACMCIP Abstract)

11:15 a.m.

1045

FAILURE OF STANDARD BABESIOSIS THERAPY IN IMMUNOCOMPROMISED HOSTS

Peter J. Krause¹, Ben Gewurz², David Hill³, Francisco Marty², Ivo Foppa⁴, Edouard Vannier⁵, Ellen Neuhaus¹, Gail Skowren⁶, Shaili Gupta⁷, Richard R. Furman⁸, Carlo McCalla⁹, Ed Pesanti¹, Mary Young¹⁰, Donald F. Heiman¹¹, Jeffrey A. Gelfand², Gary Wormser⁹, John Dickason², Samuel R. Telford¹², Barry Hartman⁸, Frank Bia⁷, Kenneth Dardick¹, Diane Christianson¹, Morton Coleman¹³, Andrew Spielman²

¹University of Connecticut School of Medicine, Farmington, CT, United States, ²Harvard University School of Medicine, Boston, MA, United States, ³Hospital for Tropical Diseases, London, United Kingdom, ⁴University of South Carolina School of Medicine, Charleston, SC, United States, ⁵Tufts University School of Medicine, Boston, MA, United States, ⁶Brown University School of Medicine, Providence, RI, United States, ⁷Yale University School of Medicine, New Haven, CT, United States, ⁸Cornell University School of Medicine, New York, NY, United States, ⁹New York Medical College, Valhalla, NY, United States, ¹⁰Georgetown University School of Medicine, Washington, DC, United States, ¹¹University of Florida School of Medicine, Boca Raton, FL, United States, ¹²Tufts University School of Veterinary Medicine, Grafton, MA, United States, ¹³Cornell University School of Medicine, Boston, MA, United States

11:30 a.m.

1046

CLINICAL FEATURES OF THE HUMAN BARTONELLOSIS (ACUTE CARRION'S DISEASE) IN THE NORTHERN FOREST OF PERU

Paul E. Pachas¹, Jorge A. Chancafe², Deysi Medina², Zoila Villegas³, Lucinda Troyes³, Nelson Solorzano⁴, Manuel Cespedes⁵, Elizabeth Anaya⁵, Victor Arenas², Bertha Granda², Alexander Canelo³, Luis A. Suarez-Ognio¹

¹General Directorate of Epidemiology-Ministry of Health, Lima, Peru, ²San Ignacio Health Center, Cajamarca Department, Peru, ³Jaen Directorate of Health, Cajamarca Department, Peru, ⁴Caraz Hospital, Ancash Department, Peru, ⁵National Institute of Health, Lima, Peru

11:45 a.m.

1047

REDUCTION OF INFANT MORTALITY: LESSONS FROM CEARÁ STATE, NORTHEASTERN BRAZIL (1995-2002)

Anastacio Q. Sousa¹, Francisca M. Andrade², Telma B. Queiroz³, Maria P. Martins³, Richard L. Guerrant⁴

¹Federal University of Ceara, Fortaleza, Brazil, ²UNICEF, Fortaleza, Brazil, ³Secretariat of Health of Ceara State, Fortaleza, Brazil, ⁴University of Virginia, Charlottesville, VA, United States

Symposium 168**Intraspecific Variation in Viral and Vector Genetics and Pathogen Transmission**

Salon F

Thursday, November 8, 2007 10:15 a.m. - Noon

Each speaker will present and discuss case studies on how variation in pathogen or vector genetics impacts pathogen transmission. The talks will span a broad range of agents including West Nile virus, dengue virus, Venezuelan equine encephalitis virus, and malaria; and diverse vectors including Culex, Aedes, and Anopheles species.

CHAIR

Laura D. Kramer

Wadsworth Center, Albany, NY, United States

Dina M. Fonseca

Rutgers University, New Brunswick, NJ, United States

10:15 a.m.

INTRODUCTION

Laura D. Kramer

Wadsworth Center, Albany, NY, United States

10:20 a.m.

HOW CAN POPULATION GENETIC STUDIES ADD TO THE KNOWLEDGE OF VECTOR DISEASES? THE CASE OF DENGUE AND CHIKUNGUNYA VECTORS

Anna-Bella Failloux

Institut Pasteur, Paris, France

10:45 a.m.

POPULATION GENETICS OF PHENOTYPIC TRAITS IN THE CULEX PIPPIENS COMPLEX

Dina M. Fonseca

Rutgers University, New Brunswick, NJ, United States

11:10 a.m.

CHARACTERIZATION OF MOSQUITO INFECTION AND TRANSMISSION OF VENEZUELAN EQUINE ENCEPHALITIS VIRUS BY THE EPIDEMIC MOSQUITO VECTOR, Aedes taeniorhynchus

Darci R. Smith

United States Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States

11:35 a.m.

POPULATION GENETICS AND PHYLOGEOGRAPHY OF ANOPHELES DARLINGI

Jan E. Conn

New York State Department of Health, Albany, NY, United States

Scientific Session 169**American Committee of Molecular, Cellular and Immunoparasitology (ACMCIPI): Molecular Parasitology II***Supported with funding from The Burroughs Wellcome Fund*

Salon G

Thursday, November 8, 2007

10:15 a.m. - Noon

CHAIR

Donald Harn

Harvard School of Public Health, Boston, MA, United States

Upinder Singh

Stanford University, Los Altos, CA, United States

10:15 a.m.

1075

A CONSERVED BASIC GROOVE ON ALDOLASE MEDIATES MIC2 CYTOPLASMIC TAIL AND F-ACTIN BINDING

G. Lucas Starnes, Miguel St-Jean, Jurgen Sygusch, L. David Sibley
Washington University, St. Louis, MO, United States

10:30 a.m.

1076

A POTENTIAL ROLE FOR GP34, A GPI-ANCHORED THEILERIA SURFACE PROTEIN, IN THE SYNCHRONIZATION OF PARASITE AND HOST CELL DIVISION

Gongda Xue, Martina Peyer, Conrad von Schubert, Pascal Hermann, Peter Buetikofer, Adrian Hehl, Dirk A. Dobbelaere
University of Bern, Bern, Switzerland

10:45 a.m.

1048

IDENTIFICATION OF DEVELOPMENTALLY REGULATED GENES IN ENTAMOEBA HISTOLYTICA**Gretchen M. Ehrenkauf**, Upinder Singh*Stanford University, Stanford, CA, United States*

(ACMCIP Abstract)

11 a.m.

1049

CYSTEINE PROTEASE ACTIVITY IN SCHISTOSOMA MANSONI RESISTANT AND SUSCEPTIBLE BIOMPHALARIA GLABRATA SNAILS**Jocelyn C. Myers**¹, Wannaporn Ittiprasert¹, Andre' Miller¹, Clarence M. Lee², Matty Knight¹, Nithya Raghavan¹¹Biomedical Research Institute, MD, United States, ²Howard University, Washington, DC, United States

(ACMCIP Abstract)

11:15 a.m.

1050

IDENTIFICATION OF IMMEDIATE RESPONSE - GENES DOMINANTLY EXPRESSED IN BIOMPHALARIA GLABRATA SNAILS UPON EXPOSURE TO SCHISTOSOMA MANSONI INFECTION**Wannaporn Ittiprasert**¹, Andre' Nathaniel Miller¹, Vish M. Nene², Najib M. El-Sayed³, Jocelyn Celeste Myers¹, Matty Knight¹¹Biomedical Research Institute, Rockville, MD, United States, ²Institute of Genome Sciences and Development of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD, United States, ³Center for Bioinformatics and Computational Biology, University of Maryland, College Park, MD, United States

(ACMCIP Abstract)

11:30 a.m.

1051

ANTI-TRANSMISSION DNA VACCINE FOR SCHISTOSOMIASIS JAPONICA IN CHINA**Akram A. Da'Dara**¹, Li Yuesheng², Tie Xiong², J. Zhou², Gail M. Williams³, Donald P. McManus⁴, Feng Zheng⁵, Xinling Yu², Donald A. Harn¹¹Harvard School of Public Health, Boston, MA, United States, ²Hunan Institute of Parasitic Diseases, Yue Yang City, China, ³University of Queensland, Herston, Australia, ⁴Queensland Institute of Medical Research, Herston, Australia, ⁵National Institute of Parasitic Diseases, Shanghai, China

(ACMCIP Abstract)

11:45 a.m.

1052

A DNA VACCINE ENCODING A SAND FLY SALIVARY YELLOW RELATED PROTEIN (LJM11) CONFERS PROTECTION AGAINST CHALLENGE WITH *L. MAJOR* IN THE PRESENCE OF *L. LONGIPALPIS* SALIVARY GLAND HOMOGENATE**Luiz F. Oliveira**, Regis B. Gomes, Shaden Kamhawi, Clarissa Teixeira, Dia-eldin Elnaiem, Jesus G. Valenzuela*National Institute of Allergy and Infectious Disease, National Institutes of Health, Rockville, MD, United States*

(ACMCIP Abstract)

Scientific Session 170**Malaria - Biology and Pathogenesis II***Salon H*

Thursday, November 8, 2007

10:15 a.m. - Noon

CHAIR

Dapa A. Diallo

MRTC/DEAPI/FMPOS, Bamako, Mali

Abdoulaye Djimde

University of Bamako, Bamako, Mali

10:15 a.m.

1053

MULTIPLY PARASITIZED ERYTHROCYTES ARE ASSOCIATED WITH INCREASED SEVERITY OF MALARIA**Lindsey Turnbull**¹, Nicholas Connors¹, Karl Seydel², Danny Milner³, Linda Kalilani⁴, Miriam Laufer⁵, Christopher Plowe⁵, Terrie Taylor²¹Blantyre Malaria Project, Blantyre, Malawi, ²College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, ³Brigham and Women's Hospital, Boston, MA, United States, ⁴University of Malawi College of Medicine, Blantyre, Malawi, ⁵University of Maryland School of Medicine, Baltimore, MD, United States

10:30 a.m.

1054

IN UTERO SELECTION AT THE FLT1 LOCUS IN A MALARIA-ENDEMIC AREA**Atis Muehlenbachs**¹, Michal Fried², Jeff Lachowitz², Theonest K. Mutabingwa³, Patrick E. Duffy²¹University of Washington, Seattle, WA, United States, ²Seattle Biomedical Research Institute, Seattle, WA, United States, ³National Institute of Medical Research, Dar es Salaam, United Republic of Tanzania

10:45 a.m.

1055

IP-10, APOPTOTIC AND ANGIOGENIC FACTORS ASSOCIATED WITH MORTALITY OUTCOMES IN CEREBRAL MALARIA PATIENTS IN INDIA

Vidhan Jain¹, Nana Wilson², Henry Armah³, Jon E. Tongren⁴, Pradeep K. Joel⁵, Mrigendra P. Singh⁵, Avinash C. Nagpal⁵, A. P. Dash⁵, Venkatachalam Udhayakumar⁶, Neeru Singh⁵, **Jonathan K. Stiles**²

¹National Institute of Malaria Research (ICMR), Jabalpur, India, ²Morehouse School of Medicine, Atlanta, GA, United States, ³University of Pittsburgh, Pittsburgh, PA, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵National Institute of Malaria Research (ICMR), Jabalpur, India, ⁶Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

11 a.m.

1056

SUPPRESSION OF MACROPHAGE MIGRATION INHIBITORY FACTOR (MIF) IN CHILDREN WITH SEVERE MALARIAL ANEMIA: ROLE OF MONOCYTE ACQUISITION OF HEMOZOIN

Gordon A. Awandare¹, Yamo Ouma², Collins Ouma², Tom Were², Richard Otieno², Christopher Keller³, Gregory Davenport¹, James Hittner⁴, John Vulule⁵, Robert Ferrell⁶, John Michael Ong'echa², Douglas Perkins¹

¹University of Pittsburgh Graduate School of Public Health, Department of Infectious Diseases and Microbiology, Pittsburgh, PA, United States, ²University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ³Lake Erie College of Osteopathic Medicine, Erie, PA, United States, ⁴Department of Psychology, College of Charleston, Charleston, SC, United States, ⁵Kenya Medical Research Institute, Kisumu, Kenya, ⁶University of Pittsburgh Graduate School of Public Health, Department of Human Genetics, Pittsburgh, PA, United States

11:15 a.m.

1057

IMPACT OF ARTMISININ-BASED COMBINATION THERAPY ON MALARIA TRANSMISSION IN MALI

Bakary Fofana, Adama Dao, Cheick Omar Kone, Bakary Sidibe, Sekou Toure, Sekou Koumare, Demba Dembele, Abdoulaye Toure, Ogobara K. Doumbo, Abdoulaye A. Djimde

University of Bamako, Bamako, Mali

11:30 a.m.

1058

BLOOD GROUP O PROTECTS AGAINST SEVERE *PLASMODIUM FALCIPARUM* MALARIA

J. Alexandra Rowe¹, Anne-Marie Deans¹, Mahamadou A. Thera², Kirsten E. Lyke³, Abdoulaye K. Kone², **Dapa A. Diallo**², Ahmed Raza¹, Oscar Kai⁴, Kevin Marsh⁴, Christopher V. Plowe³, Joann M. Moulds⁵

¹University of Edinburgh, Edinburgh, United Kingdom, ²University of Bamako Faculty of Medicine, Bamako, Mali, ³University of Maryland School of Medicine, Baltimore, MD, United States, ⁴KEMRI/Wellcome Laboratories, Kilifi, Kenya, ⁵Lifeshare Blood Center, Shreveport, LA, United States

11:45 a.m.

1059

α+-THALASSAEMIA PROVIDES A HAEMATOLOGICAL ADVANTAGE AGAINST MALARIA

Freya J. Fowkes¹, Stephen J. Allen², Angela Allen², Michael P. Alpers³, David J. Weatherall², **Karen P. Day**¹

¹New York University School of Medicine, Department of Medical Parasitology, New York, NY, United States, ²The Weatherall Institute of Molecular Medicine, University of Oxford, Oxford, United Kingdom, ³Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

Scientific Session 171**Ectoparasite-Borne Diseases**

Salon II

Thursday, November 8, 2007

10:15 a.m. - Noon

CHAIR

Maria Diuk-Wasser

Yale University, New Haven, CT, United States

Lucy M. Ndip

University of Buea, Buea, Cameroon

10:15 a.m.

1060

MODELING THE DISTRIBUTION OF THE HOST-SEEKING NYMPHAL I. SCAPULARIS TICKS IN THE USA USING CLIMATE AND LANDSCAPE PREDICTORS

Maria Diuk-Wasser¹, Gwenael Vourc'h², Anne Gatewood¹, Paul Cisló¹, Roland Geerken¹, Sarah Yaremych-Hamer³, Michelle Rowland⁴, Roberto Cortinas⁵, Jean Tsao³, Uriel Kitron⁴, Joseph Piesman⁶, Durland Fish¹

¹Yale University, New Haven, CT, United States, ²Institut National de la Recherche Agronomique (INRA), St. Genes Champanelle, France, ³Michigan State University, East Lansing, MI, United States, ⁴University of Illinois, Urbana-Champaign, IL, United States, ⁵University of Minnesota, Saint Paul, MN, United States, ⁶Centers for Disease Control and Prevention, Fort Collins, CO, United States

Detailed Program

10:30 a.m.

1061

IMMUNITY TO SALIVA AT THE TICK-HOST INTERFACE: IDENTIFICATION OF *IXODES SCAPULARIS* SALIVARY PROTEINS ELICITING A CELLULAR IMMUNE RESPONSE

Jennifer M. Anderson¹, Nathan J. Miller², Thomas N. Mather², Jerrold M. Ward¹, Jesus G. Valenzuela¹

¹National Institutes of Health, Rockville, MD, United States, ²University of Rhode Island, Kingston, RI, United States

10:45 a.m.

1062

METHODOLOGICAL CONSIDERATIONS IN DESCRIBING THE POPULATION DYNAMICS OF DEER TICKS ON WHITE-FOOTED MICE

Elissa V. Klinger¹, Ivo M. Foppa², Heidi K. Goethert¹, Sam R. Telford¹

¹Cummings School of Veterinary Medicine, Tufts University, North Grafton, MA, United States, ²Arnold School of Public Health, Columbia, SC, United States

11 a.m.

1063

IDENTIFICATION OF A NATURAL FOCUS OF TULAREMIA TRANSMISSION USING GIS MAPPING OF INFECTED *DERMACENTOR VARIABILIS*

Heidi Goethert, Sam Telford

Tufts University School of Veterinary Medicine, N. Grafton, MA, United States

11:15 a.m.

1064

EHRlichiosis in Cameroon

Lucy M. Ndip

University of Buea, Buea, Cameroon

11:30 a.m.

1065

RISK OF SPOTTED FEVER GROUP RICKETTSIA INFECTION TO U.S. MILITARY PERSONNEL

Ju Jiang¹, Paul C. Graf¹, Ellen Y. Stromdahl², Allen L. Richards¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²US Army Center for Health Promotion and Preventive Medicine, Edgewood Area of Aberdeen Proving Ground, MD, United States

11:45 a.m.

1066

HUMAN ANTIBODY-REACTIVE EPITOPES ON THE CONSERVED 47 KDA ANTIGEN OF *ORIENTIA TSUTSUGAMUSHI* AND THEIR SIMILARITY TO EPITOPES ON HUMAN SERINE PROTEASE

Hua-Wei Chen¹, Hui Wang¹, Gregory A. Dasch², Wei-Mei Ching¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

Symposium 172

Larval Source Management Field Trials II

Salon KL

Thursday, November 8, 2007 10:15 a.m. - Noon

Five major field trials investigating the impact of microbial larvicides on reducing malaria transmission and clinical malaria have been in progress in different parts of Africa over the past three years. These studies, supported by NIH and United States Agency for International Development through RTI, will help inform policy makers about the value of these interventions and guide major larval control operations presently underway or planned for the future. In this session, recent work on integrated vector management using microbial larvicides and other interventions will be discussed, together with a case study on the cost-effectiveness of microbial larvicides.

CHAIR

Steve W. Lindsay

Durham University, Durham, United Kingdom

10:15 a.m.

SPATIAL ASPECTS OF MALARIA CONTROL WITH LARVICIDES AND ENVIRONMENTAL MANAGEMENT IN DAR ES SALAAM, TANZANIA

Marcia C. de Castro

Harvard School of Public Health, Boston, MA, United States

10:40 a.m.

INTEGRATED VECTOR MANAGEMENT WITH LARVAL AND ADULT MOSQUITO CONTROL IN THE KAKAMEGA HIGHLANDS, KENYA

Ulrike Fillinger

Durham University, Durham, United Kingdom

11:05 a.m.

ENVIRONMENTAL MANAGEMENT IN THE KENYAN HIGHLANDS

Andrew K. Githeko

Kenya Medical Research Institute, Kisumu, Kenya

11:30 a.m.

COST-EFFECTIVENESS OF MALARIA CONTROL USING MICROBIAL LARVICIDES

Eve Worrall

Liverpool Associates in Tropical Health, Liverpool, United Kingdom

Noon

ASTMH 56th Annual Meeting Adjourns

SEE YOU NEXT YEAR IN NEW ORLEANS, LOUISIANA!

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- A**
- A-nuegoonpipat, Atchareeya 107
Abanobi, Okwuoma C. 100
Abbassy, Magda M. 61
Abdelhamid, Mohamed 731
Abdukhalilova, Gulnara K. 744
Abdul Rahman, Sohayati 954
Abdulla, Maha-Hamadien 292
Abdulla, Salim 95, 342, 529, 537, 633, 676, 830
Abel, Jason A. 614
Abo-Shehada, Mahmoud 64, 397
Aboi, Madaki J. K. A. 494
Abot, Stephen 304
Abraham, David 89
Abrams, Jerry 102
Abu Ayyash, Luma 402, 889
Abudho, Bernard 310
Achan, Jane 705
Acharya, Deepak B. 92
Achee, Nicole L. 60, 63, 332, 583
Acholonu, Alex D. W. 280
Acosta, Luz 70, 335
Acuna-Soto, Rodolfo 732
Adam, Ishag 635
Adama, Soumahoro 496
Adams, A. P. 278
Adams, David P. 498
Adedapo, Aduragbenro D. A. 99, 414
Adedeji, Ahmed A. 88, 527
Adegbola, Richard 384
Adelman, Zach N. 643
Adema, Coenraad M. 285, 299, 1029
Ademowo, George O. 547
Ademowo, Olusegun G. 155, 179, 495
Adeyefa, Christopher A. O. 994
Adimi, Farida 185
Adjei, Ohene 388, 389
Adjei, Samuel 504, 637
Adjui, Martin 103
Adler, Adam J. 62
Adu, Festus D. 994
Aeby, Eric 1070
Afolabi, Bangmboye 692
Agawo, Maurice O. 598
Agbenyega, Tsiri 651
Agbor, Jean Pierre 1027
Ager, Arba L. 173, 174, 822
Agnamey, Patrice 634, 717
Agnandji, Selidji 10
Agola, Eric L. 336
Agrawal, D. 378
Agrawal, N. 378
Agrawal, Swati 1069
Aguar, Joao C. 217, 574
Aguar, Marli 997
Aguilar, Patricia V. 927, 994
Aguilar-González, Sonia 272
Aguinaga, Juan G. 371
Aguirre, A. Alonso 467
Ahamed, Shakil 966
Ahmed, Be-Nazir 281, 955
Ahmed, R. 341
Ahmed, Sabeena 609
Ahn, Myoung-Hee 607
Ahn, Sun-Young 157
Ahn, Yvonne 680
Ahouidi, Ambroise D. 1021
Aide, Pedro 8, 9, 306, 572
Aiki-Raji, Comfort O. 994
Aimaku, Christopher O. 179
Aitken, Elizabeth 808
Ajariyakhajorn, Chuanpis 2
Ajayi, Ikeoluwapo O. 404, 406, 407
Akaki, Mayumi 366
Akanbi, Mathew O. 547
Akanbi, Olusegun M. 155
Akanmori, Bartholomew D. 192, 195, 198
Akhwale, Willis 338, 339, 351, 546
Akida, Juma A. 842
Akinsola, Adebayo 384
Akinyi, Sheila 806
Akkoclu, Gulgun 900
Akman-Anderson, Leyla 977
Ako, Berenger A. 496
Akogbeto, Martin 230, 621
Akpogheneta, Onome 302
Akter, Selim 636
Al-Ali, Faiza M. 79
Al-Ani, Mohammad S. Ahmad. 91
Al-Shelahi, Fatima A. 79
Alaii, Jane 339
Alam, Mohammad T. 201, 528, 877
Alangaden, George 719
Aларcon-Chaidez, Francisco J. 62
Albanese, Chris 146
Albers, Anna 389
Albonico, Marco 180
Albright, Rebecca G. 659
Alcantara, Leda 380
Aldstadt, Jared 264
Alera, Maria Theresa 760
Alessiani, Mario 73
Alexander, Neal 358
Alger, Jackeline 787
Ali, Ehsan 77
Ali Khan, Wasif 636
Alibert, Sandrine 818
Alisjahbana, Bachtu 766
Alkeilani, Maysaa 91
Allan, Sandra A. 254
Allary, Marina 367
Allen, A. 207
Allen, Angela 1059
Allen, Linda 929
Allen, Stephen J. 1059
Allicock, Orchid M. 616
Allison, Geneve 609
Almela, Maria J. 511, 826
Almendares, Olivia 787
Almeras, Lionel 238
Almirón, Walter R. 398
Alonso, E. 511
Alonso, Pedro L. 8, 9, 306, 572
Alpers, Michael P. 1059
Alpha, Adamou 1022
Alphonsus, Kal 422
Altamura, Louis A. 612
Althabe, Fernando 787
Aluma, Simon 96
Aluvihare, Chana 240
Alvarez, Angela 512, 513
Alvarez, Jorge I. 34
Aly, Ahmed S. I. 364
Ama-Moor, Vicky 717
Amador, Domingo 787
Amador, Juan Jose 110
Ambrosio, Javier R. 273
Amemasor, Solomon 637
Amengo-Eteego, Seeba 726
Ampudia, Elizabeth 577
Anantapreecha, Surapee 107
Ananth, Cande 703
Anaya, Elizabeth 1046
Anders, Robin 300, 551, 554
Anderson, John F. 263, 590, 646
Anderson, Jennifer M. 1061
Anderson, Karen S. 823
Anderson, Michelle 643
Anderson, Robert 41
Andersson, Neil 645
Andrade, Christy C. 660
Andrade, Francisca M. 1047
Andreadis, Theodore 257, 263, 282, 602
Andrews, Kathy T. 165
Andrzejewski, Christopher 501, 638
Angele, Olivier 81
Angov, Evelina 12, 161, 215, 219, 220
Angulo-Barturen, Iñigo 512, 513
Annan, Zeinab 38
Ansong, Daniel 637
Anstead, Gregory M. 739
Anstey, Nick 354, 486, 544, 701
Anthony, Gabriel A. 720
Anthony, Robert 983
Anto, Francis 103, 597, 746
Antonelli, Lis R. V. 312
Antonio-Nkondjio, Christophe 872
Anumudu, Chiaka 193, 524
Anyamba, Assaf 989
Anyona, Samuel B. 578
Anyorigiya, Thomas 103
Apara, A.U. 280
Aphasizhev, Ruslan 1074
Aphasizheva, Inna 1074
Apiwathnasorn, Chamnarn 232
Aponte, John J. 8, 9, 306, 572
Aponte, Samantha 837
Appawu, Maxwell A. 597
Apperson, Charles 402, 589, 889
Aradaib, Imad 372
Arai, Meiji 208
Arai, Satoru 958
Arama, Charles 324
Aranda, Miguel 738
Araujo Castillo, Roger V. 19, 683, 728
Araz, Engin 431
Arboleda, Margarita 758
Arcos-Teran, Laura 400
Ardelli, Bernadette F. 776
Arenas, Victor 898, 1046
Arévalo, Jorge 475
Arevalo-Herrera, Myriam 43
Arguello, D. F. 112
Arias, Jose 738
Arias, Patricia 33
Ariey, Frederic 811, 831
Arlan, Larry 433
Armah, George E. 439, 746
Armah, Henry 804, 1055
Armando, Gonzalez 33
Armien, Blas 28, 118, 764
Armijos, Veronica 459
Armstrong, Adam 905, 906
Armstrong, Philip M. 257, 263, 282
Arnathau, Céline 38
Arnold, Shannon 965
Aronson, J.F. 278
Aronson, Naomi E. 379
Arostegui, Jorge 645
Arriens, Sandra 785
Arrigo, N.C. 278
Arrigo, Nicole C. 615
Arriola, C. Sofia 30
Arrospide, Nancy 972
The ART Costing Study Team 704
Arterburn, Jeffery 923
Arvay, Melissa 439
Arvelo, Wences 17
Asante, Kwaku P. 726
Asare, Kwaku 804
Asgary, Ramin G. 408
Asghar, Rai 678
Ashley, Elizabeth 974
Ashorn, Per 808
Ashraf, Mohammad 149
Ashraf, Yusra Pervaiz 678
Asmah, Richard H. 746
Asnis, Deborah 77, 813, 902
Asoala, Victor 597
Assis, Juliana d. 482
Assmar, Mehdi 474
Astete, Helvio 623
Astete, H. 930
Atibu, Joseph 703

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Atkinson, Peter A. 945
Atuguba, Frank 103
Aubry, Maite 449
Audcent, Tobey A. 427
Auguste, Albert J. 616, 688
Auld, Andrew 736
Auliff, Alyson 187
Avenidaño, Adrian 894
Avery, Mitchell A. 639, 862
Avery, Melissa F. 890
Avery, Thomas 654
Aviles, William 86, 110
Avril, Marion 49, 580
Awandare, Gordon 20, 200, 321, 548, 549, 694, 707, 1056
Awes, Abdulkadir A. 546
Awinie, Elizabeth 726
Awobode, Henrietta O. 193
Awobusuyi, Jacob O. 651
Awono-Ambene, Parfait 38, 872
Ayala, Diego 1027, 1035
Ayala, Marta 797
Ayala, Virgilio 403
Ayala-López, Aurimar 109, 458
Ayanful, Ruth 211
Aybar, Viterbo 30
Ayede, Idowu 193
Azab, Mohamed A. 914
- B**
- B, Bernadin 496
Ba, Yamar 466
Babu, Subash 666
Babur, Cahit 431
Bacellar, Olivia 312
Bacon, David J. 203, 416, 475, 525, 526
Badiane, El-Hadjj 935
Badusche, Marlis 949
Bagayoko, Mamadou W. 508, 856
Bage, Jose T. 476
Baggett, Henry 327, 329, 330, 331, 908, 911, 915
Bagheri, Farideh 474
Bai, Ying 330, 331, 908
Baja, Abdullah 676, 830
Bakare, Adekunle A. 621
Baker, Anthony 713
Baker, Joanne 187
Baker, Murray 692
Baker, Virginia S. 692
Balabaskaran, Praveen 855, 857, 859
Balakathiresan, Nagaraja Sethuraman 946
Balbino, Valdir Q. 397
Balcaitis, Stephanie 580
Balcioglu, Cuneyt 791
Balderrama, M 1001
Baldwin, Carson 125
Balkan, Suna 974
Balkin, E. Asher 139
Ballou, Ripley 8, 9, 10, 218, 572, 578
Balmaseda, Angel 25, 110, 645, 684
Balogun, Tunde 88, 527
Balsitis, Scott 6, 116, 117
Bamgboye, Afolabi 99, 406, 407
Banania, Glenna 304
Banda, Cesar A. 541
Bandi, Claudio 389
Banfield, Christine E. 297
Baniecki, Mary Lynn 652, 935, 821
Banu, Shakila 281, 955
Barban, Veronique 443
Barbe, Jacques 818
Barbollat, Laetitia 973
Barbosa, Arnaldo 9
Barbosa-Solomieu, Valérie 441, 455
Baret, Eric 818
Barillas-Mury, Carolina 39, 243, 885, 941, 1037
Barker, Christopher M. 584
Barker, Robert 652
Barnett, Adrian G. 290
Barnor, Jacob S. 275
Barnwell, John 338, 339, 806
Barón, Olga 886
Barre, Jerome 716
Barennes, H. 1005
Barrett, Alan D. T. 660
Barron, Eduardo A. 29
Bart, Jean-Mathieu 377
Barth, Erin N. 555
Barthel, Robert V. 76
Bartholomay, Lyric C. 953
Bartkovjak, Marian 711
Barzaga, Naile 813
Basáñez, María-Gloria 385, 772, 773
Basler, Christopher F. 927, 994
Bassat, Quique 8, 572
Bassirika, Issiaka 496
Bastos, Melissa S. 697
Bates, Paul 792
Bathini, Nagendrababu 63
Baton, Luke A. 40
Batsa, Linda 388, 389
Battelli, Giorgio 73
Batty, Kevin T. 501, 638, 1007
Baus, Esteban G. 400
Bausch, Daniel G. 186, 259
Bayard, Vicente 118
Bayat, Babak 44
Bayoh, M N. 587, 595
Bayoh, Nabie 1036
Beach, Raymond 175
Beasley, David W. C. 660
Beatty, Mark E. 768
Beatty, P. Robert 6, 116, 117
Beaty, Barry 641, 892, 893, 932
Bebell, Lisa 340, 706
Becerra-Artiles, Aniuska 24
Beck, Hans-Peter 973
Becker-Dreps, Sylvia I. 228
Beckett, Charmagne 115
Beckham, Simone 433
Beckius, Miriam 715
Beerntsen, Brenda 490, 493, 798, 861
Beeson, James G. 300, 301, 550, 551, 552, 554
Beesoon, Sanjay 690
Begum, Ramie H. 202
Behets, Frieda 228
Behr, Charlotte 195, 198
Bei, Amy K. 163, 1021
Beier, John C. 894, 1026
Bejarano, Zulma 837
Belizán, José 787
Bell, David J. 1003
Bell, Jeffrey A. 880, 883
Bell, Christine E. 175
Beltran, Manuela 756
Beltrán-Alzate, Juan C. 78
Benante, John Paul 63
Benitez, Jesus 796
Benjamin, Seleena 897
Bennett, Adam 177, 184, 560
Bennett, Corey J. 661
Bennett, Kent 1008
Bennett, Shannon N. 958
Bennuru, Sasisekhar 665
Bergel, Eduardo 787
Bergman, Lawrence W. 802
Bergmann-Leitner, Elke S. 12, 161, 215, 220
Berman, Josh 1001
Bern, Caryn 627, 786
Bernabe, Antonio 680
Bernal, Maruja 750
Bernal, Oscar 974
Bernard, Kristen A. 659, 661
Bernard, Nicholas 301
Bernhard, Sonja 476
Bernhardt, Scott A. 641
Berrada, Zenda L. 50
Bertholet, Sylvie 141
Besansky, Nora J. 1027, 1035
Bessoff, Kovi 756
Bethel, Jeffrey 469
Betley, Beverly A. 517
Beverly, Stephen M. 630
Bhalla, Ashish 432
Bharti, Praveen K. B. 201
Bhattacharjee, Apurba K. 63, 503, 656, 817, 819
Bhoi, Sanjeev 410, 742
Bhonsle, Jayendra B. 656, 817
Bia, Frank 1045
Biddle, Andrea K. 228
Bilenge, Constantin M. Mia. 476
Bin Nisar, Yasir 678
Binka, Fred 439, 746
Birnbaum, Ron A. 631
Birren, Bruce W. 162, 368
Biru, Estifanos 700, 849
Bishar, Rima 741
Bixby, Lisa M. 1072
Björkman, Anders 837
Black, Carla L. 307, 310
Black, William C. 232, 625, 626, 641, 867, 1038
Blackley, Shanley 3
Blair, Carol D. 231, 279, 455, 641
Blair, Patrick 681, 766
Blaney, Joseph E. 124, 347
Blank, Lydia R. 96
Blanton, Elizabeth 15
Blanton, Ronald 296
Blaze, Marie 356
Blazes, David L. 19, 104, 683, 728, 903
Bledzka, Alicja 781
Block, Karla 345
Bloland, Peter B. 529, 633, 676, 830
Blum, Lauren 933
Boakes, Eve 773
Boakye, Daniel A. 386, 596
Bob Sakha, Ndeye 831
Bockarie, Moses 358
Bodhidatta, Ladaporn 744
Boelaert, Marleen 481, 794
Boggiatto, Paola M. 142
Boivin, Jean-Francois 383
Boivin, Michael J. 695
Bojang, Kalifa 1004
Bolaji, Olayinka M. 88, 527
Bolarte, Jose 104, 728
Bolás-Fernández, Francisco 273
Bomlitz, Larisa 708
Bond, Vincent 804
Bonelo, Anilza 759
Boni, Maciej 532
Bonjardim, Cláudio A. 450
Booker, Michael L. 824
Boonpradit, Pornsiri 107
Boonti, Thum 586
Bopp, Cheryl 15
Boppana, Venkata D. 62
Bora, Hema 528
Borad, Anoli J. 609
Borchert, Nadine 985
Borrini, Katty 627
Borrmann, Steffen 651
Borrow, Ray 384

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Borstnik, Kristina 653
Bosch, Irene 24
Bosio, Christopher 867, 912, 993
Botero, Sebastian 983
Boufana, Belchis 71
Bounlu, Khanthong 104
Bourgoin, Catherine 238
Bourguinat, Catherine 776
Boussinesq, Michel 773, 776
Bouzahzah, Boumediene 146
Bouzaidi-Tiali, Nabile 1070
Bowen, Anna 17
Bowen, Richard A. 660
Bowman, D. D. 399
Bowman, Natalie M. 786
Boykin, David 605
Bradamantis, Florelle 81
Bradley, David J. 42
Braga, Érika M. 697
Braga-Neto, Manuel B. 748, 753
Braig, Henk R. 318
Branch, OraLee H. 203, 727, 847, 850
Brando, Clara 45
Brandon, Michelle C. 234
Brandt, Jef 33
Brandt, Walter 48
Brasky, K. M. 278
Brasov, Ioana 483
Brasseur, Philippe 634, 717, 1005
Brater, D. C. 520
Brattig, Norbert 362, 389, 985
Brault, Aaron C. 660
Braunstein, Vicki L. 146
Bravo, Carmen 513
Brega, Sarah 973
Breiman, Robert 15, 619
Brelsfoard, Corey L. 437
Bremner, Joel G. 224, 534
Breña, Judith P. 381
Brenegues, Cécile 230
Brennan, Patrick J. 78
Brent-Kirk, Afiya 12, 219
Brewer, Christina M. 880
Breyse, Patrick N. 962
Briceno, Ireneo 583
Briceno, Marnie R. 827, 828
Bridges, Mickey 55
Brieger, William 178
Brindley, Paul J. 289, 1010
Bringaud, Frédéric 1068
Brinning, Douglas 928
Britch, Seth 262, 989
Brito, Cristiana F. Alves. 568, 570
Brito, Gerly A. C. 748
Brito, João R. M., 745
Bronzan, Rachel 530
Brooks, Mohammed 535
Brown, Charles 211
Brown, Emily M. 998
Brown, Heidi 256, 602
Brown, Joe 53
Brown, James F. 298
Brown, Jessica M. 944
Brown, Mark R. 947
Brown, Ryan P. 642
Brown, Vincent 725
Bruder, Joseph T. 11, 48, 304, 581
Bruhn, Kevin W. 150, 631
Brun, Reto 605
Brunetti, Enrico 72, 73, 74, 373, 374
Bryant, Bart 231
Bryant, Juliet E. 1
Buathong, Rome 960
Buchy, Philippe 26
Buck, Gregory A. 440
Bucyibaruta, Blaise 734
Buekens, Pierre 473, 787
Buetikofer, Peter 1076
Buguliskis, Jeff 531
Bührlen, Martina 637
Bujard, Hermann 194
Bulla, Lee A. 825, 887
Buluma, Robert 546
Bulyk, Martha 1073
Bundy, Don A. P. 133
Bungiro, Richard 628
Burbelo, Peter B. 135
Burdan, L. 544
Burga, Rosa 750
Burgess, Steven J. 655
Burgess, Timothy 115, 681, 766
Burkhard, Peter 45
Burkom, Howard 104
Burkot, Thomas R. 464, 890
Burnette, W N. 102
Burns, Jr., James M. 320, 802
Burri, Christian 476
Busch, Wibke 637
Büscher, Philippe 481
Bustamante, Dulce M. 121, 403
Bustamante, Juan M. 669, 1072
Butler, Ashley 125
Butman, Bryan T. 48
Buttaro, Caitlin 1014
Büttner, Dietrich W. 389
Büttner, Marcelle 389
Buzetti, Wilma A. Starke. 482
Bwanika, John B. 96
Byarugaba, Justus 352
Bystryin, Jean-Claude 46
- C**

Cable, Richard G. 1044
Cabrera, Lilia 749, 786
Caccione, Adalgisa 872
Cafferata, María Luisa 787
Caffrey, Conor R. 292, 293
Cahill, John 405
Cajal, Silvana 89
Caldeira, Roberta L. 294
Calderon, Carmen 35
Calderon, Maritza C. 749
Calderon-Arguedas, Olger 894
Calderon-Martinez, Jose Joaquin 893
Calderwood, Stephen 18, 609
Calisher, Charles H. 932
Calvert, Amanda E. 1
Calvo, Sarah 489
Cama, Vitaliano 266
Camacho-Nuez, Minerva 106
Camargo, Simone 333
Camino, I. 511
Campanella, Richard 1034
Campbell, Grant L. 1043
Campbell, Robert K. 477
Campos, Cornelio 118
Canelo, Alexander 738, 1046
Canfield, Craig J. 173, 174
Cantini, Beth Ann 782
Cantini, Greg T. 370
Cao, Q.T. 207
Cao-Lormeau, Van-Mai 449
Capeding, Maria Rosario 344
Cappello, Michael 628
Caram, Mariana 28, 350, 764
Caray, C. 930
Carcamo, Alvaro 645
Carcamo, Cesar 206
Cardenas, Rocio 1000
Cardinal, Marta V. 394
Cardona, William 886
Cardona-Castro, Nora M. 78
Caridha, Diana 502
Carlo, Joelle M. 1032
Carlone, George 384
Carlos, Daniela C. 137
Carlson, Jonathan O. 625
Carlton, Jane 850
Carr, Kathleen W. 618
Carr, Roxanne 90
Carrington, Christine V. F. 616, 688
Carrión, R. 930
Carrion, Jr., R. 278
Carroll, Darin S. 614, 991
Carroll, Ryan W. 807
Carter, Terrell 10
Carvalho, Edgar 312
Carvalho, Eunice B. 748
Carvalho, Edgar M. 283, 380
Carvalho, Luzia H. 570
Carvalho, Omar S. 294
Carvalho-Queiroz, Claudia 291
Casares, Sofia 581
Casseb, Samir M. 755
Castañeda, P. 511
Castelan-Martinez, Osvaldo D. 188
Castellanos, Alejandro 610
Castellanos, Angélica M. 571
Castellanos-Cuervo, Paula 400
Castelletto, Michelle L. 984
Castelli, Federica 374
Castellini, Meryl 531
Castillo, Leticia 28, 764
Castillo, Rafael 269, 270, 271, 272
Castillo, Yesenia 33
Castillo-Bocanegra, Rafael 273
Castro, Fanny 884
Castro, Ibraim C. 748, 752
Castro, Luiza A. 931
Castro, Marcia C. 227, 261, 845, 848, 851
Castro, Nina 266
Castro, Neviton 283
Castro, Xochitl 403
Cator, Lauren J. 253
Causser, Louise 338, 339
Cavasini, Carlos E. 697
Ceballos, Leonardo A. 394
Celermajer, David 486
Centeno, Ruth 884
Cernetich-Ott, Amy 802
Cerqueira, Gustavo 286
Cersovsky, Steven 1008
Certain, Laura K. 827, 828
Cespedes, Manuel 1046
Cetina-Trejo, Rosa C. 465
Cevallos, William 328
Chagas Júnior, Adenizar 98
Chahal, Jasdave 1073
Chai, Jong-Yil 567, 608, 840
Chaisri, Urai 604
Chaki, Prosper 41, 227, 845, 848
Chakravarty, J. 378
Chalé-Balboa, Wilberth G. 151, 152
Chambers, Eric W. 890
Champagne, Donald E. 393, 642, 947
Chan, Adeline S. T. 483
Chan, Joanne 995
Chan, Teik-Chye 434
Chan Thap, Lon 934
Chanama, Sumalee 107
Chancafe, Jorge A. 738, 1046
Chand, Gyan 183
Chanda, Pascalina 87, 355, 539, 543, 569, 674
Chandra, Prafulla K. 247
Chandrasekar, P. H. 719
Chandre, Fabrice 230
Chang, Gwong-Jen. J. 127
Chang, Moh Seng 26, 350
Chang, Wonsuk 653
Chantha, Ngan 28, 764, 897
Chao, Chien-Chung 434, 436
Chapilliquen, Fernando 884, 898

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Chareonviriyaphap, Theeraphap 586
Charlebois, Edwin D. 705, 706
Charles, Marie 708
Charriere, Fabien 1070
Charron, Brigitte 716, 717
Charurojapakorn, Chulaluck 515
Chattopadhyay, Suchismita 434
Chauhan, Chitra 874
Chauhan, Kamallesh R. 63
Chauhan, Virander S. 222, 566
Chaurasia, R. G. 182
Chaves, Luis F. 999
Checchi, Francesco 974
Checkley, Anna M. 356
Chelimo, Kiprotich 303, 556
Chen, Chien-Shien 921
Chen, Huiyuan 3
Chen, Honggen 290
Chen, Hua-Wei 436, 1066
Chen, Jun Hu 840
Chen, Jessica 959
Chen, Li-Kuang 127
Chen, Lan 345
Chen, Nanhua 187, 970
Chen, Ping 48
Chen, Wei-June 126
Chenet, Stella M. 203, 525
Cheng, Pei L. 631
Cheng, Qin 187, 563, 829, 970
Cherry, Sara 990
Cheun, Hyeng-Il 267
Chiang, Jannifer O. 123, 131
Childs, James 256
Chille, Masunga M. 842
Chimpeni, Phillips 1003
Chimutete, Mutale 355
Ching, Wei-Mei 434, 436, 1066
Chiodini, Peter L. 356
Chiou, Shyan-Song 127
Chipeta, James 355
Chirwa, Brian 841
Chisenhall, Daniel M. 470
Chishimba, Sandra 229, 938
Chitnis, Chetan E. 191, 306
Chitnis, Nakul 671
Chizema, Elizabeth K. 539
Cho, Pyo-Yeon 267
Cho, Pyo Yun 284
Cho, Shin-Hyeong 538
Chokephaibulkit, Kulkanya 2
Chong, Curtis R. 961
Chotivanich, Kesinee 515
Chotmongkol, Verajit 428
Chou, Tom 205
Chouaibou, Mouhamadou S. 865
Chowdhury, Fahima 18
Chowdhury, Imtiaz A. 281
Chretien, Jean-Paul 104, 415, 438, 989
Christensen, Bruce M. 953
Christianson, Diane 1045
Chu, Yong-Kyu 923, 929
Chuang, Ching-Kai 126
Chuang, Ilin 11, 304, 581
Chuang, Ting-Wu 599
Chukwuocha, Uchechukwu M. 100, 413, 420
Chung, Dong Hoon 923
Chuquiyauri, Raul 541
Churcher, Thomas S. 385, 773
Chuxnum, Teerasak 911
Chwaya, Hababu 180
CIETNicaragua Dengue Group 645
Cislo, Paul 1060
Cisneros, Alejandro 106
Cissé, Guéladio 729
Claborn, David 583
Claps, Guillermo L. 398
Clardy, Jon 652, 821, 824
Clark, Eva 727
Clark, Gary G. 65
Clark, Kathryn 102
Clark, Tamara D. 675
Clegg, J.B. 207
Clem, Rollie J. 231, 279
Clements, David 305
Clennon, Julie 896
Coberly, Jacqueline 104
Coetzee, Maureen 591
Cogswell, Frank B. 509, 639
Cohen, Joe 8, 9, 10, 44, 218, 572, 578
Cohen, Justin M. 999
Colborn, J. M. 856
Colborn, James M. 913
Cole, Dana 59
Cole-Tobian, Jennifer 159
Calebunders, Robert 937
Coleman, Morton 1045
Coleman, Russell E. 185, 401, 444, 483
Coler, Rhea N. 141
Colley, Daniel G. 307, 310, 664
Collin, Nicolas 391, 981
Collins, Matthew H. 1072
Collins, William E. 509
Coloma, Josefina 86, 645
Colon, Candimar 754
Comer, James A. 281, 955
Comte, Eric 722, 974
Conn, Jan E. 249, 882
Connor, Elizabeth B. 428
Connors, Nicholas 530, 1053
Conroy, Andrea 799
Conway, David 197, 210, 302, 696, 812
Cook, Joseph 129
Cook, Joseph A. 901, 958
Cook, Peter E. 979
Cooper, Margarethe 266
Cooper, Roland 1067
Copeland, Curtis C. 751
Coppage, Myra 3
Coppens, Isabelle 647
Coppi, Alida 505
Corbel, Vincent 230
Cordoba, Liliana 249
Cordova-Benzaquen, Eleazar 627, 786
Cornejo del Carpio, Juan G. 627, 786
Corran, Patrick 302, 696
Corre, Sandra 214, 831
Correa, Margarita M. 249
Correa-Oliveira, Rodrigo 291
Correnti, Jason M. 1010
Cortinas, Roberto 1060
Cosio, Gabriela 632
Costa, Carlos 391
Costantini, Carlo 1027, 1035
Coudeville, Laurent 349
Coulbaly, Aliou 508, 856
Coulbaly, Cheick 242
Coulbaly, Drissa 14
Coulbaly, Karim 409
Coulbaly, Mamadi 186, 259
Coulbaly, Michel E. 952
Coulbaly, Yaya 952
Courtenay, Orin 792
Coutinho, Bruna P. 745, 752, 753
Coutinho-Abreu, Iliano V. 64, 397
Cowman, Alan F. 300, 550
Cox, Jonathan T. 590
Crabtree, Mary B. 1
Craft, Noah 150, 631
Craig, Philip S. 71
Creek, Tracy 16, 17
Crespo Ortiz, Maria del Pilar 654
Crevat, Denis 443, 454
Crill, Wayne D. 127
Crockett, Maryanne 920
Cronstein, Bruce N. 311
Cropp, Bruce 460
Crosby, Seth D. 362, 779
Crow, Emily T. 309
Crowley, Michael R. 847
Crozier, Sarah 812
Cruz, Ana C. R. 123, 131
Cruz, Karyn 884
Cubillas, Luis 884
Cui, Liwang 545
Cummings, Richard D. 334
Curatola, Antonino G. 680
Curns, Aaron 439
Curtis, Kurt C. 777
Curwen, Rachel 296
Custers, Jerome H. 44
Cutler, Stephen J. 639
Cutrera, Ana Paula 67
Cuzin-Ouattara, Nadine 846
Cysticercosis Working Group in Peru 30, 31, 371
Czesny, Beata 518
Czokajlo, Darek 68, 402, 585, 889

D

- D'Acremont, Valerie 337
D'Alessandro, Umberto 206, 833, 937, 1005
D'Angelo, John 1057
D'Arcadia, Rosane R. 697
D'Ombrian, Marthe C. 301
da Fonseca, Flavio Guimaraes 991
da Nóbrega, Aglaêr A. 793
da Silva, Alexandre J. 810
da Silva, Eliana V. P. 123, 131, 755
da Silva, Érika V. S.. 137
da Silva-Nunes, Mônica 697
Da'Dara, Akram A. 1051
Dabiré, Kounbobr R. N. 241
Dabo, Abdoulaye 324
Dabod, Elijah 159
Dada-Adegbola, Hannah O. 179, 495
Dadzie, Samuel 597
Dahlbäck, Madeleine 49
Dai, Bui 94
Daily, Johanna P. 162, 368, 369, 489, 734, 935
Dale, James 382, 917
Dalvi, Rahul 630
Daly, Thomas M. 802
Dama, Souleymane 421, 712, 835
Damon, Inger K. 614, 991
Daniels, Rachel 204
Danko, Janine 115
Dantur Juri, Maria J. 398
Dao, Adama 588, 1022, 1057
Dao, Hoang Thi Nhu 456
Dao, M.T. 207
Dao, Nguyen V. H. 94
Daou, Modibo 324
Dara, Antoine 712
Dardick, Kenneth 1045
DaRe, Jeana T. 181
Das, Manoj K. 528, 877
Das, Pradeep 85, 624
Das, Suchismita 978
Dasch, Gregory A. 1066
Dasgupta, Tina 823
Dash, Aditya P. 182, 183, 194, 202, 341, 528, 535
Dash, A P. 1055
Dash, Paban K. 617
Daszak, Peter 467, 954, 956, 995
Dave, Kirti 483
Dave, Sonia 483
Davenport, Gregory 20, 200, 321,

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- 353, 548, 549, 694, 707, 1056
David, Makindi 809
David, Ryan 405
Davies, Stephen 293, 295, 297, 309, 311
Davila, Santiago 400
Davis, A. P. 314
Davis, Derek 187
Davis, Larry 663
Davis, Margaret 16, 17
Davis, Timothy M. E. 181, 1007
Davis-Rivers, Andrea N. 440
Dawson, Harry 983
Day, Karen P. 649, 1059
Day, Tim A. 953
Dayal, A 90
de Bosch, Norma 24
de Jesus, Amelia R. 283
de Koning, Harry 516
de la Garza, M. 278
De La Vega, Patricia 217
de Luise, Cynthia 517
de Monbrison, Frédérique 968, 973
de Oliveira, Ana 363
De Paula, Sérgio O. 757
de Vlas, Sake J. 359
De-Cozar, Cristina 171
Dea-Ayuela, Maria A. 273
Deans, Anne-Marie 702, 1058
Debatis, Michelle 629
Debrah, Alexander Y. 388, 389
deBruyn, Becky 874
DeCaprio, David 162
DeGaetano, Arthur 265
Deiningner, Susanne 197
DeJong, Randall 1037
Dejsirilert, Surang 915
Del Cid, Jaime 787
del Rosal, Marina 826
Delgado, Richard C. 206
della Torre, Alessandra 871
Delphine, Aldebert 553
Delroux, Karine 646
Dembele, Benoit 952
Dembele, Demba 421, 492, 835, 1057
Demir, Samiye 791
Demoitié, Marie-Ange 8, 10, 12, 44, 572
Deng, Haiyan 514, 639
Denis de Senneville, Laure 238
Denlinger, David L. 233
Dennill, Richard A. 820
Dent, Arlene E. 556
DeOlivera, Ana 781
DeRocher, Amy 647
Dery, M. A. 416
Desai, Meghna 535
Desai, Manish A. 895
Desai, M. R. 341
Desai, Prashant V. 862
Descloux, Elodie 449
DeSilva, Erandi 1073
Desruisseaux, Mahalia S. 805
Desta, A. 718
Dev, Vas 877
Devi, Sangeeta 566
Devine, Gregor J. 623
Di Paolo, Adriana 89
Dia, Ibrahima 466
Diabate, Abdoulaye 588, 1022
Diakite, Souleymane 384
Diallo, Abdallah 952
Diallo, Boubacar 508
Diallo, Dapa A. 14, 1058
Diallo, Mawlouth 466
Diallo, Souleymane 326
Diarra, Issa 324
Dias, Sajani 191
Diassiti, Angelina 920
Diawara, Aïssatou 133
Diaz, André 30
Diaz, A. 957
Diaz, Francisco J. 446
DiBlasi, Michael 891
Dickason, John 1045
Dicko, Alassane 13, 14, 421, 492, 651
Dicko, Adama 409
Dicko, A 710
Dicko, Yaya 717
Diemert, David 13
Dieng Sarr, Moussa 935
Diet, Tran V. 452
Dieye, Alioune 214
Difffenbaugh, Noah S. 657
Diggs, Carter 11, 48, 304, 581
DiGiacomo, Giuseppina 158
Dillon, Gary 296
Dimaano, Efen 119
Dimech, George S. 997
Dimopoulos, George 40, 640, 943, 978
Dinguirard, Nathalie 1030
Dinkel, Anke 372
Diouf, Ababacar 13, 48, 425
Diraviyam, Karthikeyan 1002
Dituvanga, Ndinga D. 476
Diuk-Wasser, Maria A. 256, 602, 1060
Djikeng, Appolinaire 286
Djimde, Abdoulaye A. 14, 421, 492, 635, 712, 835, 1057
Djogbenou, Luc 230
Djouaka, Rousseau F. 621
Do, Q.A. 207
Dobaño, Carlota 306
Dobbelaere, Dirk A. 1076
Dobler, Gerhard 463, 904
Dobson, Andrew P. 956
Dobson, Stephen L. 437
Dodean, Rosie 822
Doodoo, Daniel 192
Doerner, Frank 722
Dohn, Anita L. 138
Dohn, Michael N. 138
Dokomajilar, Christian 340, 423, 706
Dolo, Hussein 952
Dolo, Ibrahima 508
Dominguez-Galera, Marco 893
Doms, Robert W. 612, 990
Donelson, John E. 144
Dong, Carolyn 369, 489
Dong, John 345
Dongier, Pierre 383
Dongus, Stefan 261, 848
Donnelly, Christl 349
Donnelly, Martin 865
Donner, Marie-Noelle 44
Dovanon, Michael J. 670
Doolan, Denise L. 11, 48, 304, 581
Doorley, Sara 408
Dorabawila, Nelum 334
Dorfman, Jeffrey R. 580
Dorji, Tandin 113
Dorsey, Grant 93, 340, 675, 705, 706, 1005
Dosoo, David K. 726
Dotson, Ellen M. 67, 394
Doty, Jeffrey B. 932
Douglas, Jessica 785
Doumbia, Mama N. 326, 740
Doumbia, Seydou 409, 510, 710, 868
Doumbo, Ogobara K. 13, 14, 324, 421, 492, 635, 712, 835, 1057
Dow, Geoffrey S. 357, 502
Dow, Steven 993
Dowell, Scott F. 330, 331, 908
Dozie, Ikechi N. S. 100
Dozie, Ikechukwu N. S. 413, 420
Drake, Lesley J. 133
Drescher, Axel W. 261
Duah, Nancy O. 302
Dubey, Mohan L. 521
Dubois, Marie-Claude 8, 10, 44, 572
Dubois, Patrice M. 44
Dubovsky, Filip 8, 9, 572
Duc, Hoang M. 644
Ducatez, Mariette M.F. 682
Duffull, Steve 486
Duffy, Patrick E. 322, 580, 1054
Duggal, Priya 964
Dujardin, Bruno 481
Dujardin, Jean-Pierre 394
Duke, Brian O. L. 776
Dumas, Rafeale 344
Dumontiel, Eric 151, 152, 787
Duncan, Elizabeth H. 12, 161, 215, 220
Dung, Nguyen Minh 452, 1042
Dunham, Eleca J. 616, 688
Dunn, John 260
Dunstan, SJ 207
Duong, Socheat 26
Duong, Veasna 26
Dupressoir, Anne 466, 689
Dupuis, Alan P. 467
Dურaisingh, Manoj T. 163, 1021
Durand, Patrick 38
Durbín, Anna P. 213, 347
Duriseti, Sai 488
Durvasula, Ravi 624
Dusfour, Isabelle C. 60, 583
Dushoff, Jonathan 956
Dutra, Walderez O. 312, 316
Dutta, Sheetij 303
Dvorak, James A. 487
Dzinjalama, Fraction K. 530, 834, 969
-
- ## E
- Eampokalap, Boonchuay 327, 329
Easterbrook, Judith 277
Ebel, Gregory D. 129, 661
Ebringer, Andrew 187
Echevarria, Leonor 663
Echeverry, Diego 837
Edelman, Robert 216
Eder, Gerald 122
Edgil, Dianna M. 768
Edoh, Dominic 192
Edstein, Michael D. 94, 173, 174
Edwards, Camille 186, 259
Egah, Daniel 692
Egger, Joseph R. 447
Egyir, Beverly 211
Ehrenkaufner, Gretchen M. 1048
Eigege, Abel 422
Eisele, Thomas P. 177, 184, 560
Eisen, Lars 58, 888, 892, 893
Eisen, Rebecca J. 58
Eisenberg, Joseph N. S. 51, 52, 328, 895
Eitoku, Chiho 575
Ejigsemahu, Yeshewamebrat 700, 849
Ekanayake, Sajeewane 444
Ekgatat, Monaya 911
Ekloh, William 198
Eksi, Saliha 518
El Setouhy, Maged 360, 361
El-Aassar, E M. 79
El-Hossary, Shaaban 61, 64, 397
El-Kamary, Samer 731
El-Mohamady, Hanan I. 905

Author Index

Important Note: The number(s) following author name refer to the abstract number.

El-Sayed, Najib 286, 1033, 1050
Elamin, Mohamed 372
Eldridge, Bruce F. 584
Elie, Cheryl 384
Elizondo, Douglas 25
Elizondo-Quiroja, Darwin 892, 893
Elliman, Jennifer 771
Elling, Berty F. 529, 537
Ellis, Ruth D. 213
Ellis, William 650
Elmendorf, Heidi G. 967
Elnahas, Ayman 372
Elnaiem, Dia-Eldin 69, 391, 396, 981, 1039, 1052
Emerson, Ginny 991
Emerson, Paul 700, 849
Endeshaw, Molla 1002
Endeshaw, Tekola 700, 849
Endy, Timothy 763, 767
Eng, Jeffrey L. K. 386
Enright, Bill 48
Epstein, Judith E. 11, 43, 216
Epstein, Jonathan H. 954, 956
Erdman, Laura 632
Eren, Hasan 788
Erexson, Cindy 1017
Erickson, Sara M. 953
Ernst, Kacey C. 814, 853
Ertabaklar, Hatice 148, 788, 791
Ertug, Sema 148, 788
Escalante, Ananias A. 203, 860, 971, 972
Escobedo, K. 930
Escombe, A. Roderick 680
Escueta, Aleyla S. 564
Esmat, Gamal 731
Espinosa, Avelina 965
Espinosa, Benjamin J. 747, 750, 928
Espinoza, Yrma 381
Espinoza Zegarra, Nereyda 747
Esposito, Joseph 274
Essamia, Fabian 651
Essbauer, Sandra 463
Essel, Kofi 899
Esteves, Gabriela 98
Etang, Josiane 865
Etheridge, Ronald 1074
Etouna, Joachim 1035
Ettestad, Paul 663
Ettling, Betty F. 95
Evans, Carlton A. 680
Evans, James E. 649
Evans, Sandra 435
Eversole, Rob R. 387, 982
Ewing, Dan 345
Eyamba, Albert 770
Eyangoh, Sarah 722
Eza, Dominique 930
Ezedinachi, Emmanuel 651

F

Faccioli, Lúcia H. F. 137
Fagbenro-Beyioku, Adetayo F. 523
Fairfax, Keke C. 628
Fairlie, David P. 165
Falade, Catherine O. 179, 404
Falade, Cathrine O. 495, 547
Falta, Michael T. 316
Fantappie, Marcelo R. 1032
Farah, Omar 619
Farfan-Ale, José A. 465, 893
Farias, Kleber J. S. 931
Farid, Hoda A. 360, 361
Farnon, Eileen C. 1043
Farrar, Jeremy 22
Farrar, J.J. 207
Farrar, Jeremy 452
Faruque, Abu S. G. 18
Fatoumata, Dicko-Traore 712
Faucette, Laurence 1017
Faulde, Michael 463
Favata, Mike 415
Fawaz, Emad 64, 397
Fawole, Funmi 99
Faye, Babacar 717
Faye, Ousmane 409, 466, 710
Feagin, Jean E. 647
Febles, Taynet T. 77
Fegan, Gregory 554
Fehintola, Fatai A. 88
Feikin, Daniel 15, 619
Feng, Carl G. 667
Feng, Gaoqian 808
Feng, Zheng 290
Fenton, Michael E. 76
Ferdig, Michael T. 160, 854, 939
Ferguson, David J. 604
Ferguson, Heather 593
Fernandes, Liselle 693
Fernández, Alejandra 512, 513
Fernandez, Miguel 19, 683
Fernandez, Roberto 898
Fernandez-Salas, Ildefonso 626, 893
Fernández-Velasco, D. Alejandro 271
Ferreira, Marcelo U. 697
Ferrell, Robert 200, 321, 548, 1056
Ferrer, Santiago 512
Ferrer-Rodriguez, Ivan 836
Ferro, Cristina 797
Fidock, David A. 505, 940
Field, Hume E. 954, 956
Figueira, Claudio P. 98
Fikrig, Erol 590, 646
Filice, Carlo 72, 73, 374
Filipe, João A. 773
Filler, Scott 704

Fillinger, Ulrike 41, 41, 227, 261, 845, 848, 851
Filone, Claire Marie 990
Fimmers, Rolf 389
Findlow, Helen 384
Finney, Olivia 197, 696
Firbas, Christa 687
Fischer, Kerstin 362, 785
Fischer, Marc 1041
Fischer, Peter U. 362, 785, 777, 985
Fish, Durland 256, 602, 1060
Fisher, Cynthia 329
Fisk, Tamara 331
Fisk, Tamara L. 908
Fitzpatrick, Nicole 110
Flannery, Brenden 21
Fleischer, Bernhard 949
Flores, Diana 6, 117
Flores-Flores, Luis F. 465
Flores-Mendoza, Carmen 884
Flores-Suarez, Adriana E. 626
Floreys, Lia S. 699
Florin, David 623, 866, 884
Fofana, Bakary 421, 492, 835, 1057
Fogako, Josephine 559
Folarin, Onikepe A. 88, 524, 527
Foley, Desmond H. 881
Fonseca, Benedito A. L. 120, 450, 757, 761, 931
Fonseca, Dina 875
Fontenille, Didier 38, 238, 1027, 1035
Fontenot, Andrew P. 316
Fontes, Cor J. Fernandes. 568
Foppa, Ivo M. 600, 1045, 1062
Forbes, Wayne M. -. 132
Ford, Karen 692
Ford, Robert 692
Formenty, Pierre 989
Formica, Alessandra 122
Fornadel, Christen M. 250, 591, 879, 896
Fornasini, Gianfranco 1009
Forrat, Remi 344
Forsyth, Simon J. 290
Foster, Woodbridge A. 1026
Foster, Stanley O. 175
Fottrell, E 718
Fouda, Genevieve Giny 425
Fowkes, Freya J. I. 1059
Fowler, Elizabeth V. 563
Fox, LeAnne M. 678
Fox, Matthew P. 678
Foxman, Betsy 328
Frace, Mike 991
Fraga, Lucia A. O. 291, 293, 311
Francis, Filbert 842
Francis, Susan 580
Franco, Jose R. 476
Franco-Paredes, Carlos 796, 1000

Franz, Alexander 441, 455, 1038
Fraser, Malcolm J. 1010
Freed, Brian 316
Freitas, Daniel 997
Frempong, Margaret T. 596
Freundlich, Joel S. 505
Fried, Michal 322, 580, 1054
Friedman, Jennifer 70
Frolov, Ilya V. 658
Frosch, Matthias 375
Fryauff, David 61, 597
Fujita, Wendy 998
Fukuda, Mark 218, 430, 565, 636, 832, 863, 934
Fuller, Douglas O. 894
Furman, Richard R. 1045
Fusai, Thierry 238, 818
Fusch, Christoph 803

G

Gad, Adel M. 360, 361, 1040
Gaither, Amber D. 834
Galagan, James E. 162, 368, 579
Galinski, Mary R. 806
Galler, Ricardo 98
Gallup, Jack 315
Gálvez-Buccollini Abanto, Juan A. 723
Gambhir, Manoj 909
Gamboa, Dionicia 206
Gamboa-Leon, Rubí 787
Gamo, Francisco-Javier 171
Gandhi, Deepika 90
Ganesan, Suresh 858, 859
Ganeshan, Harini 304
Ganley-Leal, Lisa M. 664
Gao, Qi 970
Gaona, Heather W. 656, 817
Garcez, Lourdes 792
Garcia, Hector 31, 33
Garcia, Hector H. 29, 30, 35, 371
Garcia, Héctor H. 903
Garcia Bustos, José-Francisco 171, 505
Garcia-Miss, Maria 151
García-Pérez, Adolfo 512
Garcia-Rejon, Julian 465, 465, 893
Gardella, Catalina E. 106
Gardiner, Donald L. 165
Gardner-Santana, Lynne C. 959
Gardon, Jacques 776
Gargallo, Domingo 511, 512, 513, 826
Garges, Eric 1008
Garnett, Geoff 349
Garrido, Fátima 28, 764
Garrison, Laurel E. 59
Garuti, Helena 512, 513

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Garver, Lindsey S. 943
Gasasira, Anne F. 705, 706
Gascot, Edalish 836
Gatakaa, Hellen 554
Gates, Casey 368
Gatewood, Anne 1060
Gatlin, Michael R. 307
Gatraud, Paul 505
Gatti, Simona 72
Gatton, Michelle L. 563, 829, 970
Gaur, Upasna 630
Gause, William 983
Gavidia, Cesar M. 29, 371
Gay, Cyril G. 412
Gaydos, Joel C. 438
Gaye, Oumar 634, 717, 1004
Gazzinelli, Giovanni 291
Gba, Bernadin 496
Gbotosho, Grace O. 88, 524, 527
Gbotosho, Sola 404
Gebre, Teshome 700, 849
Gebregeorgis, Elizabeth M. 573
Geerken, Roland 1060
Gehrke, Andrew 1073
Geissbühler, Yvonne 41, 227, 845, 848
Gelfand, Jeffrey A. 1045
Genco, Francesca 72
Genet, Asrat 700
Genov, Jordan 373
Genton, Blaise 337, 973
Gerena, Lucia 170, 415, 503, 656, 817
Gerrets, Rene P. 529
Getachew, A. 718
Getis, Arthur 264
Gettraud, Regula 97
Gettayacamin, Monthip 218, 503
Getz, Tony 580
Gewurz, Ben 1045
Ghabour, Sylvia 905
Gharib, Sina A. 1018
Ghedin, Elodie 1068
Ghosh, Kashinath 318, 480, 624
Ghosh, Mousumi 142
Gibble, Joan 196
Gibbons, Peter L. 501
Gibbons, Robert V. 2, 113, 429, 763, 765, 767, 760
Gibson, Gabriella 1023
Gibson-Corley, Katherine N. 143
Gicheru, Nimmo 554
Gil, Ana I. 903
Gil, Pedro 837
Gill, Jeff 584
Gilman, Robert H. 29, 30, 31, 33, 266, 541, 627, 680, 749, 786, 866
Gimite, Dereje D. 149
Gimnig, John E. 587, 595, 1036
Gingrich, John B. 875
Ginsberg, Michele 469
Giraudoux, Patrick 71
Girault, Lang 466, 689
Giron, Luis Israel 787
Girouard, Autumn S. 961
Gitau, Evelyn N. 485
Gitawati, Retno 486
Githure, John I. 248, 1026
Gittleman, John 995
Glanfield, Amber 308
Glass, Gregory E. 108, 277, 896, 959
Glass, Jonathan 104
Glass, Roger I. 439
Gnémé, Awa 846
Go, Rodrick 507
Goade, Diane 129, 663
Gobert, Geoffrey N. 287, 289, 1010
Goethert, Heidi K. 901, 1062, 1063
Goetz, Sue 994
Goetz, Scott J. 467
Goff, Jay 992
Goff, Tami 196
Goh, Li Ean 651
Goka, Bamela Q. 195, 198
Goldin, Robert 452
Golemanov, Branimir 373
Gollob, Kenneth J. 312, 316
Gomes, Regis B. 69, 391, 396, 981, 1039, 1052
Gomes-Ruiz, Alessandra C. 120, 450
Gomez, Andres 467
Gomez, Rosa 852
Gomez, Tangni 25
Gómez, Vanesa 512, 513
Gomez-Benavides, Jorge 957
Gomez-Carro, Salvador 893
Gomez-de-las-Heras, Federico 171
Gomez-Escobar, Natalia 197, 210, 812
Gomez-Machorro, Consuelo 874
Gonçalves, Lígia A. 1019
Goncalvez, Ana P. 457
Gong, Hong Fei 265, 592
Góngora, Rafael 797
Gonzaga, Victor E. 903
Gonzales, Armando E. 29, 30, 31, 35
Gonzales, Joseph M. 160, 939
Gonzalez, Alcides 110
González, Bárbara 836
González, Glorienne 836
Gonzalez, Jesus 332
Gonzalez, Rodrigo 1022
Gonzalez-Cerdas, Rodrigo 876
Gonzalez-Ceron, Lilia 852
Gonzalez, Guillermo 30, 31
Goodin, Douglas 929
Goodman, Catherine 499
Goodrich, Raymond P. 606
Gopi, P G. 666
Gopinath, Shankar P. 32
Gordon, Aubree 25, 684
Gordon, Scott 332
Gore Saravia, Nancy 797
Gorman, Ann Marie 461
Gose, Severin 49
Goshu, Samrawit 518
Gosi, Panita 863
Goto, Yasuyuki 141
Gottstein, Bruno 97, 377, 963
Gotuzzo, Eduardo 986
Gouagna, Louis C. 1026
Goudsmit, Jaap 44
Gould, Fred 946
Govella, Nicodem 41, 227, 845, 848
Govil, Dhvani 274, 991
Gowda, D. Channe 1020
Gowda, Kalpana 48
Graczyk, Thaddeus K. 961, 962
Graf, Paul C. F. 438, 1065
Graham, Sean 926
Grais, Rebecca 722
Granda, Bertha 1046
Grande, Tanilu 206
Grandesso, Francesco 725
Granger, Don 486
Grant, Alan J. 244
Grant, Dorsey 423
Gratias, Kambau M. Deo. 476
Graves, Patricia 700, 849
Graves-Abe, Katie 708
Graviss, Edward A. 32
Gray, Darren J. 290
Gray, Ronald L. 96
Green, Sharone 453, 765, 767
Greenaway, Christina 383
Greenbaum, Doron 491
Greenberg, Robert M. 288, 1031
Greene, Jennifer 695
Greenhouse, Bryan 675
Greger, Stephanie 631
Gregory, Robin 187
Greif, Gisela 963
Grieco, John P. 63, 60, 583
Griffing, Sean M. 971, 972
Griffith, Matthew 714, 715
Grigorov, Nikola 373
Grijalva, Mario J. 400
Grimberg, Brian T. 809
Grinstein, Sergio 632
Grisolia, Antonella 72, 73, 374
Gross, Tiffany 643
Grube, Marcus 803
Gruener, Beate 375
Gu, Weidong 246, 248, 252
Guerin, Philippe J. 974
Guerrant, Richard L. 440, 745, 748, 751, 752, 753, 1047
Guereña-Burgueno, Fernando 618
Guiguemdé, Robert Tinga 651, 790, 833
Guillard, Bertrand 81
Guimarães, Luiz H. S. 312, 380
Guindo, Ando B. 14
Guindo, Boubacar 868
Gulinello, Maria 805
Gunes, Koray 148
Gunning, Robin 433
Gunsaru, Bornface 655
Guo, Jiagang 290
Gupta, Lalita 39, 243, 941, 1037
Gupta, Nimesh 617
Gupta, Raj K. 63
Gupta, Shaili 1045
Gupta, Vineet 410, 742
Gurarie, David E. 540
Gurary, Alexandra 23
Gurley, Emily 281, 933, 955, 1041
Gürtler, Ricardo E. 67, 392, 394
Guthmann, Jean-Paul 974, 1005
Gutiérrez, Lina A. 249
Gutman, Julie R. 422
Gutteridge, Clare E. 819
Guyer, Craig 926
Gwadz, Bob 1022
Gyang, Fredrick N. 195
Gyapong, John O. 386

H

- Ha, Tran Thi Ngoc 456
Haake, David 98
Habbema, J D. F. 359, 676
Habomugisha, Peace 770
Hadi, Azam 514
Hadioemarto, Panji F. 766
Haertle, Sonja 10
Haesler, Barbara 97
Hafy, Zen 766
Haidara, Fadima C. 384
Hailemariam, Afework T. 849, 891
Hall, Eric R. 750
Hall, Martin J. R. 79
Halpin, Kim 954
Halstead, Scott B. 767
Halvorsen, Jake G. 1040
Hamainza, Busiku 355, 539, 569
Hamarsheh, Omar Y. M. 864
Hamel, Mary 338, 339, 351, 546, 1036
Hamer, Davidson H. 535
Hammad, Ragaa E. 361
Hammond, Samantha 86
Han, Eun Taek 840
Hanafi, Hanafi A. 61, 64, 397, 401

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Handunnetti, Shiroma M. 191
Hanelt, Ben 299, 1029
Hannah, Michele F. 555
Hanshoaworakul, Wanna 960
Hanson, Christopher 124
Hanson, Kevin 102
Hanssen, Eric 654
Happi, Christian T. 88, 404, 524, 527
Haque, Rashidul 636, 964, 966
Haralambou, George 77
Harker, Brent 874
Harn, Donald A. 1051
Harrell, Robert A. 240
Harrington, Laura C. 66, 265, 592
Harris, Eva 6, 25, 86, 110, 116, 117, 684
Harris, Jason B. 18
Harris, Juliana V. 189
Harrison, Lisa 628
Hartl, Daniel L. 368
Hartman, Barry 1045
Hartmann, Chris 992
Hartmann, Katherine 703
Hartmann, Wiebke 949
Hartwig, Carmony 1067
Harty, Ronald N. 611
Hashem, Mohamed 731
Hashimoto, Caryn 305
Haskell, Jacquelyn N. 631
Hassan, Hassan K. 880, 926
Hassan Sharifah, Syed 954
Hassanali, Ahmed 1026
Hastings, Ian M. 936
Hatabu, Toshimitsu 564
Hatch, Douglas 997
Hau, Tran P. 644
Hauer, M. C. 878
Havliir, Diane 705, 706
Hawela, Moonga 569
Hawkes, Clifton 379
Hawkes, Michael T. 920
Hawkins, Vivian N. 533
Hawley, William A. 736, 736
Hayakawa, Toshiyuki 564
Hayes, Curtis 115, 346, 444
Hayes, Daniel J. 497
Hayes, Edward B. 473
Haynes, J. D. 1015
Hazir, Tabish 678
Heady, Tiffany N. 656, 817
Hehl, Adrian 1076
Heiman, Donald F. 1045
Heintz, John 181
Heinz, Franz X. 687
Heinz, Michael 362
Helmers, Andrew 164
Helmy, Hanan 360, 361
Hemingway, Janet 621
Hemphill, Andrew 75, 376, 605, 963
Henipavirus Ecology Research Group (HERG) 954, 956
Henn, Matthew 25
Henry, Maud 818
Hensley, Lisa 992
Henson, Mike 473
Heppner, D. Gray 12, 44, 218, 578
Hermann, Pascal 1076
Hernandez, Carlos 645
Hernandez, Jean N. 727, 850
Hernandez, Roger 381
Hernández-Campos, Alicia 269, 270, 271, 273
Hernández-Campos, Maria A. 272
Hernández-Luis, Francisco 269, 270, 272, 273
Herrera, Flor 867
Herrera, Socrates 43
Herrera Camino, Andres 747
Herrerros, Esperanza 826
Hess, Lindsey 653
Hesse, September 804
Hibberd, Patricia L. 609
Hickey, Patrick W. 445
Hidalgo-Martinez, Ana C. 465
Higazi, Tarig B. 363
Higgs, Stephen 613, 658, 730
Hightower, Allen 546, 587, 619
Higuita, Edwin A. 446
Hill, David 1045
Hillesland, Heidi 624
Himley, Stephen 55
Hinckley, Alison F. 473
Hinnebusch, B. J. 912
Hinrichs, Dave 822
Hira, Parsotam R. 79
Hirsch, Damien 517
Hisamori, Daisuke 484
Hiser, Ashley F. 56
Hittner, James B. 353, 694, 707, 1056
Ho, Walter 305
Hoang, Long T. 4
Hoang Le, Nguyen 644
Hocart, Simon J. 639
Hochbein, Roselyn 1043
Hodgson, Abraham 103
Hodson, Cheryl 655
Hoel, David 61, 64, 397, 401
Hoerauf, Achim 388, 389, 785
Hoffman, Marshall M. 819
Hoffman, R. L. 399
Hoffman, Stephen L. 216
Hoffmann, Erika H. E. 697
Hoke, Charles H. 102
Holder, Anthony 193
Hole, D G. 594
Hollingdale, Michael R. 158
Holloway, Brian 274
Holman, David 345
Holmes, Edward C. 616, 688
Holt, Deborah 433
Holt, Robert D. 959
Homira, Nusrat 281, 955
Homma, Akira 98
Hong, Sung-Jong 284
Hope, Andrew 129
Hopkins, Heidi 93, 340, 343
Horton, Ashley A. 242, 1024
Hospenthal, Duane 714, 715
Hossain, Jahangir 1041
Hossain, M. J. 281, 933, 955
Hotez, Peter 987
Hottel, Hannah 125
Hou, Min 70
Houde, Nathan 368
Hougard, Jean-Marc 230
House, Brent L. 217
House, Susan 242
Howell, Katherine 550
Howgate, James 464
Hsiao, Chia-Hung Christine 144
Hsu, Bing-Mu 921
Huallpa, C. 957
Huaman, A. 930
Huaman, Moises 19
Huang, Claire Y. 1, 114, 471
Huang, Ling 71
Huang, Mingbo 804
Huang, Shuhui 573
Huang, Yeufang 779
Huayanay, Leandro 381
Hubbard, Alan 51, 52, 328
Hübner, Marc P. 948
Huddler, Donald P. 656, 817
Huddleston, Beth 260
Hudson, Thomas H. 502, 656, 817
Hue, Nguyen D. 94
Huertas, Mariela 837
Huggel, Katja 333
Huggins, John 992
Hughes, Dyfrig A. 1003
Hughes, Mark T. 932
Hugo, Leon E. 979
Hui, George 305
Hulit, James 146
Humbel, Bruno 1069
Hume, Jen 226, 876
Hunja, Carol W. 578
Hunsperger, Elizabeth 472, 756
Hunt, Richard H. 591
Hunter, Gabrielle C. 749
Huong, Vu Ti Que 443, 456
Hurtado, Northan 725
Hurwitz, Ivy 624
Husain, Sohail 628
Hussain, Waqar 678
Hussaini, Isa 753
Hutchinson, Rob 594
Hutson, Christina L. 614
Huy, Rekol 26
Hyatt, Alex 954
-
- Iadarola, Michael J. 135
Iamsirithaworn, Sopon 960
Ibadova, Gulnara A. 744
Ibarguen, Dario 837
Ibrahim, Mohamed 887
Ide, Charles 982
Idowu, Dare O. 524
Ilboudo-Sanogo, Edith 846
Ilett, Kenneth F. 501, 638, 1007
Ilika, Amobi L. 620
Imade, Godwin 692
Imrie, Allison 23
Intapan, Pewpan M. 428
Irawati, Dyah 681
Irfan, Seema 679
Iriko, Hideyuki 574
Isaacson, J. 519
Isaacson, Jeffrey D. 172
Ishengoma, Deus 842
Isoe, Jun 235, 236, 975, 976
Ito, Akira 72, 375
Itoh, Sonoyo 72, 375
Ittiprasert, Wannaporn 1033, 1049, 1050
Iwagami, Moritoshi 564
Iwuagwu, Francis O. 420
Iya, Daniel 692
Iyiola, Yemisi 404
-
- Jacob, Benjamin 248
Jacobs Jr., William R. 505
Jacobus, David P. 173, 174, 505
Jacobus, Laura R. 173, 174
Jacquemot, Catherine 195
Jacquerioz, Frederique A. 186, 259
Jadav, Suresh 384
Jafari, Seyed M. 919
Jaffe, Donald R. 517
Jago, Jeffrey D. 501, 638
Jain, S. K. 222
Jain, Vidhan 194, 1055
Jairungsri, Aroonroong 2
Jamaluddin, Abdul Aziz 954
Jambou, Ronan 831
James, Mark 787
Jarilla, Blanca 70

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Jarman, Richard G. 2, 113, 618, 760, 763, 765, 767
Jaron, Peter 15
Jarrett, Clayton O. 912
Jaworowski, Anthony 693
Jayakumar, Asha 670
Jayantasari, V. 666
Jeffery, Jason A. L. 644
Jei, Fei 142
Jennings, Cameron V. 1021
Jentes, Emily S. 186, 259
Jenwithisuk, Rachaneeporn 515
Jeronimo, Selma M. 313
Jerzak, Greta V. S. 661
Jiang, Daojun 777
Jiang, Ju 1065
Jiang, Lubin 488
Jiang, Lei 939
Jilma, Bernd 687
Jiménez, Elena 511
Jimenez, Juan 31
Jimenez, Victor 507
Jimenez, German 175
Jiménez-Díaz, Belén 512, 513
Jin, Lizhong 239
Jin, Ling 574
Jin, Xia 3, 457
Jin, Yamei 37
Jitpimolmard, Suthipun 428
Jiz, Mario 70, 335
Jobe, Ousman 319
Jochim, Ryan 391, 1039
Joel, Pradeep K. 1055
Johansson, Michael 108
John, Chandy C. 695, 814, 853
Johnson, Armead 425
Johnson, Barbara W. 128
Johnson, C. E. 278
Johnson, Dawn 177, 184
Johnson, Jacob D. 650, 656, 817, 820
Johnson, Jeff R. 370
Johnson, Karen 268
Johnson, Reed F. 611
Johnson, Stephanie T. 1044
Johnson, Wesley O. 584
Johnston, Dean 46
Johnston, Stephanie P. 810
Johnston-Gonzalez, Richard 886
Jones, Douglas 143
Jones, Douglas E. 142, 315
Jones, Franca 750
Jones, Jeffrey G. 411
Jones, Jeffrey L. 101, 134
Jones, Kate 995
Jones, LeeAnn 67
Jones, Lahna 650
Jones, Malcolm 308
Jones, Matthew J. 467
Jones, Tim F. 260
Jongsakul, Krisada 934
Jongwutiwes, Somchai 542, 545
Jonsson, Colleen 923, 929
Joos, Charlotte 214
Jorakate, Possawat 327, 329, 911, 915
Jordan, Stephen J. 847
Joshi, Durga M. 429
Joshi, Hema 202
Ju, Jung-Won 267
Juarez, Marisa 89
Juliano, Jonathan J. 811
Juma, Vera 676, 830
Juncansen, Camlia 697
Jung, Yoon-Jae 157
- ## K
- K'Ogal, Amos 707
Kaba, Stephen A. 45
Kabalo, Abel 355
Kabanywany, Abdunoor M. 633, 676, 830
Kabeya, Alain M. 476
Kabir, Mamun 966
Kabiru, Ephantus W. 1026
Kabyemela, Edward R. 322
Kachur, S. Patrick 21, 95, 342, 499, 529, 537, 633, 676, 830
Kaewpan, Anek 327, 915
Kafwani, Mzungu 153
Kagaayi, Joseph 96
Kahigwa, Elizeus 21
Kahn, Ashraful 18
Kahnberg, Pia 165
Kai, Oscar 1058
Kain, Kevin C. 164, 632, 799, 920, 1018
Kalanarooj, Siripen 763, 765
Kalanidhi, A. P. 114
Kalayanarooj, Siripen 453
Kale, Oladele 406, 407
Kalilani, Linda 519, 808, 1053
Kalinna, Bernd H. 1010
Kaltenböck, Astrid 122
Kalyango, Joan 93
Kam, Adele 682
Kamal, Michael 369
Kamal, Sherin A. 361
Kamanga, Aniset 896
Kambale, Wilson 340
Kamdem, Colince D. 1035
Kamgno, Joseph 776
Kamhawi, Shaden 64, 69, 395, 396, 397, 981, 1052
Kaminski, Robert 750
Kamugisha, Mathias L. 842
Kamya, Moses R. 93, 340, 675, 705, 706
Kanbara, Hiroji 789
Kande, Victor 481
Kane, Anne V. 609
Kaneko, Osamu 574
Kang, Mi-Ae 561
Kang, Young-A 538
Kang'a, Simon 850
Kango, Mabvuto 355
Kannady, Khadija 41, 227, 261, 845, 848, 851
Kano, Shigeyuki 208, 564
kanobana, Kirezi 33
Kaplan, Jenifer 277
Kaplan, Ray M. 988
Kappe, Stefan H. I. 319, 364
Kapre, Subash 384
Karagenc, Tülin 788
Karamagi, Charles 93
Karanja, Diana M. S. 307, 310, 336, 664
Karema, Corine 734
Karim, Coulibaly 710
Karim, Mohammad M. 609
Kariuki, Michael M. 490, 493, 798, 861
Kariuki, Simon 338, 339, 971
Kariuki, Tom 296
Karl, Stephan 809
Karnataki, Anuradha 647
Karnchaisri, Kriangkrai 542
Karunajeewa, Harin A. 181, 1007
Karyana, M 354, 544, 701
Kasper, Jacob M. 1013
Kastens, Will 358
Kasumba, Irene N. 873
Kasymbekova, Kalya 925
Katabarwa, Moses N. 770
Katebe, Cecelia 844
Katkowsky, Steven R. 464
Kaufusi, Pakieli H. 468
Kaur, Harparkash 499
Kauth, Christian W. 194
Kawai, Hiroyuki 55
Kawai, Vivian 786
Kawazu, Shin-ichiro 208
Kay, Brian H. 644, 979
Kayange, Noel 1003
Kaye, P. 1071
Kazura, James W. 358, 556, 695
Ke, Hangjun 859
Keating, Joseph 177, 184, 259, 560
Kebaier, Chahnaz 37, 156
Kebede, Asnakew 891
Keiser, Jennifer 376
Keita, Mahamadou M. 326, 382, 917
Keita, Mamadou M. 326, 508, 712, 740
Keita, Somita 409, 710
Kekitiinwa, Adeodata 705
Keller, Christopher 321, 549, 694, 1056
Keller, Thomas 692
Kelley, James 460
Kelly, Jane X. 655, 822
Kelly, Rosmarie 464
Kemiseti, Sumathi 902
Kenangalem, Enny 354, 486, 544, 701
Kendino, Gideon 187
Kengluetcha, Ampornpan 515
Kennedy, Allison C. 355
Kent, Rebekah J. 250, 462, 879
Kerce, Jerry 464
Kern, Peter 375
Kerr, Caron 520
Khabiri, Alireza 474
Khalambaheti, Thareerat 863
Khalid, Nabila 79
Khan, Rasheda 281, 933
Khan, Tariq A. 902
Khan, Wasif A. 609
Khandelwal, N. 432
Khatib, Rashid A. 95, 529, 537
Khawar, Nadeem 678
Khieu, Virak 26
Khodiev, Aybek V. 744
Khusmith, Srisin 863
Kiang, Richard 185
Kiechel, Jean-René 506, 1006
Kifude, Carolyne M. 578
Kiggundu, Moses 706
Kihonda, Japhet 41
Killeen, Gerry 41, 95, 227, 261, 537, 672, 845, 848, 851
Kilpatrick, A. Marm 467, 657
Kim, Andrea 17
Kim, Chang-Hyun 1040
Kim, Hyo-Jin 567, 608
Kim, Jung-Yeon 267, 538
Kim, Jeong-Su 538
Kim, Tong Soo 267, 284, 538
Kim, Tae Im 284
Kim, Young-A 157
Kim, Yeon-Joo 538
Kimber, Michael J. 953
Kimmel, Rhonda 303
Kindermans, Jean-Marie 974
Kines, Kristine J. 289, 1010
King, Chwan-Chuen 105
King, Christopher L. 153, 296, 301, 551, 552, 803
King, Christopher 304
King, Christopher C. 159
King, Charles H. 461, 540, 699
King, C. R. 11, 48
King, Russell 583
King, Richter C. 581
Kinney, Richard M. 1, 114, 471, 660
Kinsey, J. 730

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Kinyanjui, Sam 550
Kioko, Elizabeth N. 598
Kippes, Christopher 461
Kiprotich, Chelimo 557
Kiptui, Rebecca 546
Kirby, Matt 258
Kirchhoff, Louis V. 478
Kirsch, Philipp 68, 402, 585, 889
Kissinger, Patricia 473
Kiszewski, Anthony E. 891
Kitagawa, Beatriz Y. 997
Kitchen, Lynn W. 102
Kitron, Uriel 67, 392, 394, 1060
Kitua, Andrew Y. 843
Klade, Christoph 122, 687
Klein, Eili 532
Klein, Philipp 637
Klein, Pamela W. 555
Klein, Sabra 277, 555, 959
Klena, John 906
Kleshchenko, Yuliya 154, 648
Klimov, Alexander 681
Kline, Daniel L. 1025
Klinger, Elissa V. 1062
Klinger, Jeff 652
Klion, Amy D. 390, 952
Klungthong, Chonticha 765
Knapp, Jenny 377
Kneen, Rachel 1042
Knepper, Randall G. 599
Knight, Matty 1033, 1049, 1050
Knols, Bart G. 1024
Ko, Albert I. 98
Kobbe, Robin 637
Kochel, Tadeusz 115, 444, 928, 930, 957
Koekemoer, Lizette L. 591
Koenraadt, Constantianus J. M. 66, 592
Koita, Ousmane A. 508, 510, 639, 856
Kolb, Carol 737
Kole, Abhisake 952
Kolhe, Priti 464
Kollaritsch, Herwig 122
Komaki-Yasuda, Kanako 208
Komar, Nicholas 462
Komatsu, Natália T. 697
Komisar, Jack L. 1015
Konadu, Peter 389
Konate, Siaka 952
Kone, Abdoulaye K. 14, 1058
Kone, Cheick O. 1057
Kongsin, Sukhontha 28, 764
Konovalova, Svetlana 48
Koonce, Joseph 461
Koplowicz, Yelena B. 996
Koram, Kwadwo A. 103, 192, 211, 597
Korenromp, Eline 937
Korir, Cindy C. 806
Korir, Jackson C. 199
Korten, Simone 949
Koru, Ozgur 431, 810
Kosasih, Herman 681, 766
Kose, Sukran 900
Kosek, Margaret 541, 866
Kosmowski, Andrew 1008
Kosoy, Michael 330, 331, 908, 913
Kosoy, Olga L. 1043
Kotea, Navaratnam 690
Kotloff, Karen L. 326, 382, 740, 917
Kou, Zhihua 3
Koumare, Sekou 1057
Kouri, Drew 181, 540
Kourouma, Kerfallah 186, 259
Kowalewska-Grochowska, Kinga 815
Kowuour, Dickens 557
Krairojananan, Panadda 515
Kramer, Erin 315
Kramer, Laura D. 467, 657, 659, 661, 662
Krause, Darren R. 563
Krause, Peter J. 1045
Krautz-Peterson, Greice 333
Kreishman-Deitrick, Mara 656, 817
Kremer, Laurent 505
Kremsner, Peter G. 10, 523
Krishnegowda, Gowdahalli 1020
Krogstad, Donald J. 177, 508, 509, 510, 514, 560, 639, 839, 856
Krolewiecki, Alejandro J. 89
Kroon, Erna 991
Krudsood, Srivicha 519, 811, 1006
Krulak, David 415
Kruszon-Moran, Deanna 101, 134
Krzych, Urszula 319
Ksiazek, Thomas G. 281, 955
Kuan, Guillermina 86, 110, 684
Kucerova, Zuzana 147
Kuete, Thomas 717
Kuhn, Stephanie 473
Kuikumbi, Florent M. 476
Kulasekara, Bridget 49
Kulkarni, Manisha A. 245
Kulkarni, Prasad 384
Kum-Arb, Utaiwan 218
Kumar, Anil 85
Kumar, Ashwani 673
Kumar, Nirbhay 40, 325, 1012
Kumar, Sanjay 85
Kumar, Sanjeev 39, 243, 941, 1037
Kumar, Sanjai 1017
Kumar, T. R. Santha 505
Kumar, Tripurari 742
Kumaran, Paul 666
Kumarapperuma, Sidath 923
Kumaraswami, V. 666
Kumwenda, Taida 938
Kun, Juergen F. J. 523
Kunert, John 1030
Kunz, Susan 975
Kuppers, Rudolf 1009
Kurane, Ichiro 107, 686
Kurtis, Jonathan 70, 322, 335
Kuschner, Robert A. 429
Kuser, Paula R. 570
Kutcher, Simon 644
Kuzera, Kristopher 264
Kwak, Dong-Hwan 157
Kweka, Eliningaya J. 57
Kwon, Joon-Wook 538
Kwon, Yong-Kuk 994
Kyle, Dennis E. 173, 174, 503
Kyle, Jennifer L. 6, 116
- ## L
- La Beaud, A. Desiree 461
Labo, Maria N. 995
Lacerda, Henio G. 313
Lachowitz, Jeff 1054
Lackovic, Kurt 554
Lacma, Julio 884
LaCrue, Alexis N. 490, 493, 798, 861
Lad, Alpana 452
Ladd, Aliny B. L. 752
Ladd, Fernando V. L. 752
Lafontant, Christina 177, 184
LaForce, Marc 384
Lafuente, Maria-Jose 171
Lafuente, Sarah 8, 572
Laguna, V. A. 957
Lai, Ching-Juh 457
Laihad, Ferdinand J. 736
Lakwo, Tom 770
Lal, Altaf A. 971
Lal, Chandra S. 85
Laloo, David G. 1003
Lama, Marcel 223
Lamb, Erika W. 293, 309
Lambert, Lynn 576
Lambert, Lynn E. 47
Lambson, Bronwen E. 247
Lameyre, Valerie 421, 716, 717
Lamikanra, Adebayo 741
Lammey, Jovitha 1007
Lammie, Patrick J. 890, 988
Lampah, Daniel 354, 486, 701
Lampman, Richard 1040
Lanar, David E. 45, 158, 218, 303, 863
Lanata, Claudia F. 903
Lancaster, Kathryn 266
Lanciotti, Robert S. 1043
Lander, Eric S. 162, 368, 369
Landis, Sarah 703
Laney, Sandra J. 1014
Lang, Jean 344, 443, 451, 454
Langdon, Gretchen 70
Langerveld, Anna 982
Langevin, Stanley A. 660
Langhorne, Jean 193
Lanteri, Charlotte 650
Lanzaro, Gregory C. 1024
Laoboonchai, Anintita 832
Laras, Kanti 104
Larasati, Wita 104
LaRocque, Regina 18
Larson, Bruce A. 339
Lascano, Mauricio S. 400
Laserson, Kayla 15, 338, 339, 351, 546
Lau, Audrey O. T. 603
Laufer, Miriam K. 530, 834, 969, 1053
Laughinghouse, Andre 1039
Laughlin, Larry 332
Laupert, Fernanda 997
Laurens, Matthew B. 834
Laveen, Janeen J. 1043
Law, Angela S. F. 501
Lawrence, Kendra 63
Lawson, Bernard 388
Lawyer, Phillip G. 318, 396
Laxminarayan, Ramanan 532
Lay, Jenny 438
Lazar, Lidia E. 724
Le, TL 207
Le Anh, Nguyen P. 644
Le Bras, Jacques 831
Le Roch, Karine 369
Leach, Amanda 8, 572, 578
Leary, Kevin 520
Lebowitz, Jacob 576
Lee, Byung-Chul 538
Lee, Clarence M. 149, 1049
Lee, Eng-Hong 212
Lee, G.T. 165
Lee, Jo Woon Yi 567
Lee, Jo Woon Yi 608
Lee, Jin-Ju 567, 608
Lee, John S. 598
Lee, Moses 36, 166
Lee, Patricia J. 656, 817
Lee, Rebecca 46
Lee, Sydney 276
Lee, Sunhee 805
Lee, Young-Hee 267
Leelaudomlipi, Surasak 515
Leepin, Angela 605
Legorreta-Herrera, Martha 188
Legros, Dominique 974
Lehmann, Tovi 226, 588, 876, 945, 1022
Lehner, Claudia 122

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Leiby, David 196, 606, 1044
Leke, Rose Gana Fomban 425, 559
Leliwa-Sytek, Aleksandra 649
Lell, Bertand 10
Lelo, Baliyima 843
Lemiale, Laurence 216
Lemma, H. 718
Lemnge, Martha M. M. 842, 843
Lemos, Denise 291
Lengeler, Christian 337
Lenhart, Audrey 232
Lennon, Niall 25
Leon, Ilsa 1073
Leon, Renato 601
Leon, Walter 884
Leontsini, Elli 30
Lepec, Richard 725
Lerdthusnee, Kriangkrai 330
Lertora, Juan J. L. 514
Lesauvage, Eric 716
Lescano, Andres G. 19, 30, 104, 749, 903
Lescano, Willy 884
Lesho, Emil 395
Leszczynski, Sara 1037
Letson, William 768
Leung, Daniel 313
Leung, Lawrence W. 927
Levasseur, Kathryn 369
Levert, Keith 274
Levin, Michael 452
Levine, Gail L. 11
Levine, Myron M. 326, 740
Levy, Karen 51, 52, 328
Levy, Marc 995
Levy, Michael Z. 627, 786
Lewey, Jennifer 734
Lewis, Drew 517
Lewis, Dorothy E. 610
Lewis, Edwin E. 561
Lewis, Sheri 104
Lewockzo, Kenneth 260
Lewthwaite, Penelope 1042
Leyva, Rene T. 996
Li, Ben-Wen 777, 780
Li, Cong 882
Li, Chenglong 1002
Li, Qigui 167, 168, 169, 170
Li, Qianjun 923
Li, Robert S. 290
Li, Sheng 48
Li, Shunyu 284
Li, Wenjun 453
Li, Xioaming 920
Li, Xinshe 1011
Li, Yi-Shiuan 105
Li, Yuesheng 290
Li, Yu 991
Li, Yan B. 71
Li, Zheng Z. 71
Libiszowski, Paul C. 844
Libraty, Daniel H. 5
Libreros, Gerardo A. 759
Liebman, Katherine 655
Liepinsh, Dmitry 558
Lievens, Marc 8, 10, 572, 578
Lijek, Rebecca S. 741
Liles, W C. 164, 799, 1018
Lilley, Ken 187
Lim, Chang k. 686
Lim, K.C. 292
Lim, Pharath 811
Lim, Phawath 831
Lima, Aldo A. M.. 745, 748, 752, 753
Lima, Danielle M. 757
Lima, Flavia L. 482
Lima, Jose B. Pereira. 882
Lima, Josane R. 313
Lima, Jose W. 479
Lima, Maria F. 154, 648
Limbach, Keith 11, 48, 304, 581
Limpawattana, Panita 428
Limsalakpetch, Amporn 218
Lin, A.J. 650
Lin, Enmoore 159, 181, 301, 1007
Lindsay, Steve W. 41, 227, 258, 594, 845, 848, 851
Linnen, Jeff 348
Linsler, Paul J. 942
Linthicum, Kenneth J. 65, 262, 989
Liscum, Kathleen R. 610
Little, Mark P. 772
Liu, Chung-Ming 105
Liu, Canhui 363
Liu, Jun 920
Liu, Ping 5
Llamosas, Monica 29
Llanos, Alejandro 206
Llargo, Jose-Luis 171
Llinas, Manuel 1073
Loan, Huynh Thi Kim 456
Locke, Emily 48, 812
Logue, Christopher H. 993
Logvinenko, Tanya 18
Lok, James B. 984, 1011
Loker, Eric S. 285, 336
Lokida, Dewi 681
Lokomba, Victor 703
Lompo, Zourata 709, 709
Londono, Berlin 177, 560
Long, Carole A. 13, 47, 48, 213, 303, 803
Longacre, Shirley 214
Longstreth, J 519
Looareesuwan, Sornchai 506, 519, 811, 1004, 1006
Lopansri, Bert 486
Lopes, Maria Beatriz 753
Lopez, Eva 171
Lopez, Gaylord 59
Lopez, Victor 623, 930
Lopez-Lopez, Patricia 152
Lopez-Sanchez, Miriam 656, 817
Lopez-Vallejo, Fabian 271
Lord, Cynthia 121
Lorono-Pino, Maria Alba 465, 893
Loschen, Wayne 104
Lougué, Guekoun 833
Louie, Karen L. 659
Loukas, Alex 987
Lourenço, Elaine V. L.. 137
Lovegrove, Fiona E. 799, 1018
LoVerde, Philip T. 286, 291, 1032
Lovin, Diane 874
Lowery, Roy J. 490
Lozano, Sonia 511, 826
Lozano-Fuentes, Saul 892, 893
Lu, Jeff 367
Lu, Lydia 16
Lu, Liang 691
Lubaki, Jean-Pierre F. 476
Lubell, Yoel 343
Luby, Stephen P. 281, 933, 955, 1041
Lucas, Carmen 475, 526
Lucchi, Naomi W. 194
Lucena, Herene B. 748
Lucio-Forster, A. 399
Lucke, Andrew 165
Luckhart, Shirley 242, 249, 251, 561, 977
Lukeman, Ibrahim 637
Lukens, Amanda K. 162, 368
Lum, Lucy 28, 764
Lumsden, Joanne 319
Lun, Cheng-Man 299, 1029
Luna, Concepción 89
Lundstrom, Tammy S. 719
Lungu, Christopher 841
Luo, Haiyan 460
Luo, Yeung 460
Lusingu, John P. A. 842, 843
Lutumba, Pascal P. 481, 794
Luxemburger, Christine 349, 443, 451, 454
Lyimo, Thomas 21
Lyke, Kirsten E. 14, 216, 324, 1058
Lynch, Joseph 461
Lynch, Julia A. 445
Lyon, Jeffrey A. 12
- ## M
- Ma, Puo-Hua 921
MacArthur, John R. 633, 676, 830
MacCallum, Fiona J. 550
Macedo de Oliveira, Alexandre 338, 339, 972
Macete, Eusebio 8, 306, 572
Mach, Ondrej 16
Machado, Eleuza R. M.. 137
Machado, Paulo R. L. 380
Machado, Paula R. L. 931
Machado, Rosangela Z. 482
Macharia, Stephen 476
Maciel, Andressa A. F. L. 748
Maciel, Jorge 1012
Maciel, Jamilly G. 745
MacIntosh, Victor 415
Macintyre, Kate 184
Mack, B. M. 856
Mack, Douglas G. 316
Mackenstedt, Ute 372
Mackenzie, Charles D. 387, 774, 982
MacLeod, William B. 535, 678
Madebe, Rashidi 842
Madeira, Andreza 997
Madison, M. Nia 154, 648
Madrid, Teresa M. 299
Madyarov, Ruslan S. 744
Magill, Alan J. 173, 174, 357, 415, 650, 1008
Maguiña, Ciro P. 381
Maguire, Jason D. 76
Maguire, James H. 627, 786
Mahajan, Babita 1017
Mahajan, R C. 521
Mahande, Aneth M. 57
Mahanta, J. 521
Mahanty, Siddhartha 213, 952
Maharaj, Payal D. 660
Mahi, Sushil 432
Maillard, Stephan 377
Main, Andy J. 646
Maina, Geoffrey 336
Maiolatesi, Santina 581
Maire, Nicolas 671
Majam, Victoria 1017
Makarem, Mazen 293, 311
Makieya, Eric 794
Makkiya, Adil 91
Makoka, Mwai 916
Malafrente, Rosely S. 697
Malaivichitnond, Suchinda 545
Malaquias, Luiz Cosme C. 291
Malasit, Prida 2
Malecela, Ezekiel K. 842
Malecela, Mwele 774
Malenga, Grace 530
Malhotra, Indu 153, 803
Malick, Ndiaye 553
Malila, Aggrey 633
Malkin, Elissa 213, 812
Malla, Nancy 521
Mallik, Arun K. 789
Maloney, Susan 327, 329, 330, 908, 911, 915
Mamadou, Diallo A. 553

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Mammen, Mammen P. 2, 429, 760, 763
Manaca, Maria N. 8, 9, 572
Manalo, Daria L. 70
Manchery, John 432
Mancini, Emiliano 871
Mand, Sabine 388, 389
Manda, Hortance 1026
Mandalakas, Anna M. 461
Mandalasi, Msano 334
Mandaliya, Kishor 803
Mandomando, Inacio 8, 9, 306, 572
Mangara, Salif 508
Mann, Victoria H. 289, 1010
Mannix, Frank 130
Manoukis, Nicholas C. 588, 868
Manrique, C. 957
Mansor, Sharif 506
Manuel, Karla R. 438
Manya, Ayub 546
Maqbool, Sajid 678
Mara, Valentina 995
Marathe, Chaitra 150
Marcet, Paula L. 67, 394
Marchena, Loyd 118
Marchetti, Elisa 384
Mare, Daouda 709
Marfo-Debrekyei, Yeboah 388, 389
Marfurt, Jutta 973
Margolis, Harold S. 26, 768
Mariani, Giuseppe 374
Marinho, Claudio R. F. 800
Markus, Miles B. 221
Marovich, Mary 317
Márquez-Navarro, Adrián 269
Marquino Quezada, Wilmer 972
Marra, Peter P. 467
Marrama, Laurence 214
Marron, Jennifer 347
Marrs, Carl 328
Marsh, Kevin 300, 550, 554, 1058
Marshall, Jonathon C. 872
Marshall, John M. 205
Marshall, Kristy 713
Martensson, A. 1005
Martin, Gregory J. 747
Martin, Laura B. 47, 213, 573, 576
Martin, Thibaud 230
Martinez, Idali 472
Martins, Daniella R. 313
Martins, Livia C. 123, 131
Martins, Maria P. S.. 1047
Martins-Filho, Olindo A. 291
Martinson, Jeremy 321, 548
Marty, Francisco 1045
Marzouk, Mahmoud M. 79
Masanja, Irene 342, 499
Mason, Carl J. 744
Mason, Peter W. 658
Masood, Tahir 678
Massey, Holman C. 984
Massougboji, Achille 651
Masunge, Japhter 16, 17
Masuoka, Penny 332
Maswi, Charles 676, 830
Mather, Michael W. 855, 857, 858, 859
Mather, Thomas N. 1061
Mathieu, Els 720
Mathisen, Glenn E. 478
Matos, David 738
Matson, Ryan 541, 866
Matsuda, Shusaku 484
Matsumoto, Kotaro 901
Matsunaga, James 98
Matthys, Barbara 729
Matuschewski, Kai 319
May, Jürgen 637
May, Karen 803
Mayor, Alfredo 306
Mazitschek, Ralph 652, 821
Mazumdar, Suman 222
Mbacham, Wilfred 635
Mbewe, Bernard 808
Mbogo, Charles M. 248
Mboup, Soulyemane 162, 368, 369, 935, 1021
McArthur, Julie H. 347
McAvin, James 444
McBride, Alan J. A. 98
McBride, Flavia W. C. 98
McCall, Philip 232
McCall, Suzanne 714
McCalla, Carlo 1045
McCallum, Fiona J. 300, 551
McCalmont, William F. 650, 656, 817
McCann, James 891
McCarthy, Anne E. 427
McCarthy, James 433
McCarthy, Sarah E. 611
McCasland, Michael 12, 219
McClellan, Holly A. 573
McCollum, Andrea M. 971, 972
McComas, Katherine 66
McConnell, William 517
McCutchan, Thomas 1017
McDowell, Mary Ann 64, 395, 397, 670
McElroy, Peter 21
McGarvey, Stephen T. 70
McGee, Charles E. 613, 658
McGrath, Andrew 48
McGrath, Shannon M. 44
McKelvey, Robin 624
McKerrow, James H. 292
McLain, James D. 618
McLaughlin, John R. 68, 402, 585
McLeod, John 461
McManus, Donald P. 71, 290, 1051
McMorrow, Meredith 342
McNeil, Yvette 486
McRae, Scott 473
Mduluzu, Takafira 325
Mead, Daniel 464
Mease, Ryan 12, 215
Medeiros, Marco 98
Medina, Deysi 1046
Medina, Sarimar 47
Medina-Franco, José L. 271
Medlin, Carol A. 737
Meeks, Janet 23
Meheus, Filip 481, 794
Melby, Peter C. 739
Melrose, Wayne 268, 713, 771
Membri, Christopher D. 163
Mendenhall, Ian 886
Méndez, Fabián 759
Mendez, Juan 480
Mendez-Cuesta, Carlos A. 273
Mendoza, Alfonso 171, 505
Mendoza-Silveiras, José 11, 216, 304, 581
Menéndez, Clara 306
Menezes, Anisha 235
Menezes, Cristiane A. S.. 316
Menezes, José A. S. 997
Meng, Zhaojing 665
Menge, David M. 814, 853
Mensah, Nathan 103
Menten, Joris 937
Mentink-Kane, Margaret M. 667
Meola, Mark A. 662
Meola, Mark M. 657
Mercado, Xiomara 472
Merino, Emilio F. 850
Meroni, Valeria 72
Mesesan, Kyeen 1
Meshnick, Steven R. 228, 519, 693, 703, 808, 811, 816
Mesirov, Jill 369
Messerli, Shanta M. 288
Mesu, Victor K. Betu. Ku. 476
Metenou, Simon 425, 952
Metta, Emmy O. 21, 529
Mettens, Pascal 44, 218
Metwally, Mohamed 731
Meya'a, Abanda 722
Meyer, Andrew M. 888
Meymandi, Sheba K. 478
Meza, Rina 750
Meza, Yocelinda 750
Mharakurwa, Sungano 229, 569, 677, 838, 896, 938
Miaka, Constantin 481
Michaels, Sarah 1034
Michon, Pascal 159, 301, 551, 809
Middeldorp, Jaap M. 303
Midzi, Nicholas 325
Miesfeld, Roger L. 234, 235, 236, 975, 976
Miguel, Ihosvani 813
Mikhail, Nabil 731
Miles, K. 207
Milhous, Wilbur K. 173, 174, 357, 415, 503, 524, 527, 650, 1009
Militello, Kevin T. 1013
Milkowski, Anna 602
Miller, André 1033, 1049, 1050
Miller, Barry R. 1
Miller, David 992
Miller, John M. 543, 674, 841, 844
Miller, Kathryn 266
Miller, Louis H. 13, 47, 213, 488, 573, 576
Miller, Mark 383
Miller, Nathan J. 1061
Miller, Robert 735
Miller, R. Scott 1009
Miller, Scott 863
Millman, Jessica 8, 9, 572
Mills, Anne 343, 936
Mills, Lisa A. 96
Milner, Dan A. 162, 204, 368, 1021, 1053
Mimori, Tutsuyuki 89
Minta, Anna 180
Mintwo, Alain F. 476
Mintz, Eric 15
Miranda, Maria Consuelo 797
Miri, Emmanuel S. 422
Mis-Avila, Pedro 893
Misher, Lynda 49
Misiani, E. A. 591
Mitamura, Toshihide 564
Mitova, Rumiana 373
Mitre, Edward 775, 948
Mitreva, Makedonka 362, 779, 985
Miura, Kazutoyo 13, 213
Mkoji, Gerald M. 336
Mkulama, Mtawa 229, 838, 938
Mlambo, Godfree 1012
Mmbando, Bruno P. 842, 843
Mobedi, I. 399
Moch, J. K. 1015
Moguel, Barbara 403
Mohamady, Hanan I. 906
Mohamed, Abdirahaman 543
Mohamed, Ahmed 619
Mohamed, Abdirahman 674, 844
Mohammed, Hamish 348
Mohareb, Emad 925
Mohammed, Asif 222, 566
Molaei, Goudarz 257, 602
Molina, Margarita 903
Molina-Cruz, Alvaro 243, 1037
Molta, Norman 692
Molyneux, Malcolm E. 530, 693, 1003

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Moncayo, Abelardo C. 260
Mondal, Dinesh 964, 966
Mondo, Mireille 466, 689
Monroy, Carlota 403
Monroy-Nicola, Jorge 400
Montero-Solis, Ciro 852
Montes, Martin 986
Montes-Jave, Cecilia 884
Monteville, Marshall 925
Montgomery, Joel 955
Montgomery, Jacqui 1003
Montgomery, J. M. 930, 957
Montgomery, Phil 368
MonThavy, Chea 82
Montoya, Manuel 332
Montoya, Romeo H. 28, 764
Moody, Erin 260
Moonga, Hawela 539
Moore, Aubrey 402, 585
Moore, Brioni R. 501, 638
Moore, Chester G. 888
Moore, Lee R. 809
Moormann, Ann M. 303, 556, 557
Mootha, Vamsi 489
Mor, Siobhan M. 426
Moraes-Ávila, Sandra L. 697
Morales, Maria E. 289, 1010
Moran, Manuel 19, 683
Moran, Marjorie 433
Morazzani, Elaine 643
Moreau, Jean Charle 553
Moreno, Elizabeth C. 291
Mores, Christopher N. 125, 470, 582
Moretz, Samuel E. 13, 47, 48
Morgan, Daniel J. 380
Morgan, Rachel 1002
Morgan, William 288
Morin, Laura-Lee L. 662
Moris, Philippe 9
Morris, D. 519
Morrisey, Joanne M. 365, 857, 858, 859
Morrison, Amy 623
Morrison, A. C. 930
Morrison, Dennis 344
Morsy, Zakariya S. 361
Morton, James 975
Morway, Christina 330, 331, 908
Mosher, Aryc 700, 849
Mosnier, Joel 818
Mota, Maria M. 1019
Mott, Robert 1008
Mott, Tiffany M. 561
Motter, Christi 996
Moudy, Robin M. 657, 662
Moulds, Joann M. 1058
Moulton, Lawrence H. 30
Mowlavi, G. R. 399
Moyano, Luz Maria 31
Mpimbaza, Arthur 352
Mpototo, Alfred M. 476
Mridha, Liz 517
Msangeni, Hamisi A. 842
Mshinda, Hassan 261, 676, 848, 851
Msiska, Charles 355
Mtsasiwa, Deo 41, 227, 261, 845, 848, 851
Mu, Jianbing 209, 1039
Mubi, Marycelina 163
Muchiri, Eric M. 153, 699
Mucker, Eric 992
Muehlenbachs, Atis 1054
Mueke, Jones M. 595
Mueller, Ivo 159, 181, 301, 550, 551, 552, 809, 1007
Mueller, Norbert 963
Mugenyi, Cleopatra K. 300, 554
Mukabana, Richard 401
Mukaka, Mavuto 1003
Mukbel, Rami M. 64, 142, 143, 395, 397
Mukherjee, Shankar 146
Mukherjee, Sudeshna 260
Mukuka, Chilandu 543, 674, 841
Mulenga, Musapa 229, 938
Mulet, Teresa 512, 513
Mullen, Gregory E. 13, 47, 213, 576
Muller, Claude P. 682
Müller, Ivo 973
Muller, Michaela 1068
Müller, Pie 865
Müller-Myhsok, Bertram 785
Munayco, Cesar V. 104, 728
Mundaca, Cecilia 104
Mundaca, Carmen C. 19, 683, 728
Mungai, Peter 153
Mungai, Peter L. 699
Muniz, Andre Luiz A. 283
Muniz, Pascoal T. 697
Muñoz, Jorge 348
Muñoz, Maria de L. 106
Muñoz-Jordán, Jorge 112, 754
Munungi, Auguy K. 476
Muok, Erick M. O. 310
Murcia, Luz Mila 837
Murphy, Brian R. 124, 347
Murphy, Jittawadee 330
Murphy, Jennifer L. 56
Murray, Clinton K. 429, 714, 715
Murray, H. W. 378
Murtaza, Asifa 678
Musa, Dankyau 494
Musafiri, Placide 734
Musie, Edgar M. 922
Muskus, Carlos 249
Musset, Lise 940
Musuamba, Gertrude 228
Mut-Martin, Mirza 151
Mutabingwa, Theonest K. 322, 1054
Mutai, Beth K. 1016
Mutuku, Francis 587, 595, 1036
Mutumanje, Elissa A. 434, 436
Muturi, Ephantus J. 248
Muvdi, Sandra H. 84
Mwakitalu, Esther 774
Mwangangi, Joseph M. 248
Mwangoka, Grace W. A. 176
Mwanza, Mercy 841
Mwapasa, Victor 693
Mwinzi, Pauline
Mwinzi, Pauline N. M. 307, 310, 664
Myatt, Mark 722
Myers, Jocelyn Celeste 1033, 1049, 1050
Myint, Khin S. A. 113, 429
Myles, Kevin M. 643
Mzayek, Fawaz 510, 514, 639
- ## N
- N'Goran, Eliézer K. 729
N'Guessan, Raphael 230
Na, Byung-Kook 267
Na Ayuttaya, Tippawan T. 618
Naddaf, S. R. 399
Naemkhunthot, Sirirat 107
Nagajothi, Fnu 146
Nagao, Yoshiro 111
Nagpal, Avinash C. 194, 1055
Naguleswaran, Arunasalam 75
Nahar, Kamrun 281
Nahar, Nazmun 933
Najafi, N. 399
Najera-Vazquez, Maria del Rosario 893
Nakao, Minoru 72, 375
Nakhla, Isabelle 906
Nakhlla, Isabelle 905
Nakielny, Sara F. 995
Nam, Vu S. 644
Nanda, Nutan 183
Naniche, Denise 9
Nankabirwa, Joaniter I. 93
Naorat, Sathapana 327, 911
Naranjo, Nelson 249
Narayan, Rupa 631
Nardin, Elizabeth 46
Nartey, Helena 192
Narum, David L. 49, 213, 576
Nascimento, Eliana L. 313
Nascimento, Marcia C. 283
Nascimento, Renata T. 120
Nash, Lisa 651
Nash, Oyekanmi 994
Nathan, Michael B. 350
Natividad, Filipinas 119
Navaratnam, Vis 506, 1006
Navarrete, Joel 106
Navas, Adriana 797
Ndao, Momar 815
Nde, Pius N. 154, 648
Ndeezi, Grace 352, 426
Ndhlovu, Micky 355
Ndiaye, Daouda 162, 204, 368, 369, 489, 935
Ndiaye, Hawa 710
Ndiaye, Jean-Louis 717
Ndiaye, Magueye 689
Ndikuyeze, Georges 1037
Ndip, Lucy M. 1064
Ndir, Omar 162, 369, 935, 1021
Ndububa, Dennis 651
Ndugu, Ibrahim 336
Neafsey, Daniel E. 162, 368, 579
Nébié, Issa 846
Nechmireva, Tamara S. 744
Neil, Donald A. 415
Neira, Marco 601
Nelson, Kara 51, 52
Nene, Vish M. 1033, 1050
Neres, Rita 800
Nerome, Reiko 686
Nerurkar, Pratibha V. 460
Nerurkar, Vivek R. 460, 468, 958
Neto, Armando M. 225
Nettel-Cruz, Jose A. 852
Neuhaus, Ellen 1045
Neva, Franklin A. 135
Nevin, Remington 438
Newland, Joseph 47
Ng'ang'a, Z. 549
Ng'habi, Kija R. 1024
Ngajilo, Aggrey 633
Ngan, Chantha 26
Ngasala, Billy 163
Ngoa, Nguyen D. 94
Ngoenwiwatkul, Yaowaluk 924
Ngondi, Jeremiah 700, 849
Ngudiankama, Barbara F. 240
Nguku, Patrick 619
Nguon, Chea 83
Nguyen, Andrew 507
Nguyen, H.P. 207
Nguyen, Megan 196
Nguyen, N.Q. 207
Nguyen, Ngoc Rang 451
Nguyen, Q.H. 207
Nguyen, Thi Kim Tien 451, 454
Nguyen, Trong Toan 451, 454
Nguyen, Vu 576
Nguyen Than, Ha Quyen 22
Nguyen Thanh, Hung 22
Nguyen Thi, Phuong Dung 22
Ngwa, Alfred A. 210
Nhampossa, Tacilta 306

Author Index

Important Note: The number(s) following author name refer to the abstract number.

Nicoll, William S. 158
Nieberg, Paul H. 478
Nielsen, Carrie 459
Niezgoda, M. 957
Nikiema, Jean Baptiste 709
Nikolajczyk, Barbara 664
Niles, Edward G. 1032
Nimmannitya, Suchitra 453
Nimmo, Graeme 268
Nisalak, Ananda 2, 113, 453, 760, 763, 765, 767
Nitayapan, Sorachai 618
Nithyanandan, Nagercoil 520
Njama-Meya, Denise 675
Njau, Joseph D. 633
Njenga, Kariuki 619
Njikap, Adelaide 722
Nkrumah, Louis J. 505
Nku Imbie, David 228
Noedl, Harald 636, 832, 934
Nofchissey, Robert A. 129, 663
Nogbou, Messoum 496
Nogueira-Torres, Benjamina 269
Noisakran, Sansanee 2
Noor, Abdísalan 546, 546
Norris, Douglas E. 229, 250, 591, 879, 896, 938, 959
Norris, Laura C. 879
Nosten, François 1005
Notsch, John 650
Nour El-Din, El-Shaimaa M. 61
Novak, Robert J. 246, 248, 252, 1040
Novelli, Enrico M. 353
Nuchprayoon, Surang 784
Nuernberg, Peter 388
Nukui, Yoko 686
Nunes, Márcio R. T. 123, 131, 755
Nuñez, Andrea 25, 110
Nunez, Gladys 747
Nurhayati 766
Nutman, Thomas B. 135, 390, 665, 666, 667, 950, 952
Nwagwu, Mark 193
Nwakanma, Davis 197, 210, 812
Nwankwo, Lucky 147
Nwigwe, Ugonna F. 420
Nwoke, Betram E. B. 100, 413
Nwuba, Roseangela I. 193
Nwugba, Rose-Angela 524
Nyaguara, Amek 15
Nyakoe, Nancy K. 323
Nyame, Anthony K. 334
Nyika, Dickson 261
Nzarubara, Bridget 675
Nzila, Alexis M. 827, 828

O

O'Brochta, David A. 240, 945, 946
O'Connor, Linda-Lou 875
O'Guinn, Monica L. 598
O'Leary, Dan 473
O'Neal, Seth 380
O'Neil, Michael T. 187
O'Neill, Scott L. 979
O'Reilly, Ciara E. 15
O'Reilly, Michael 960
O'Riordan, S.P. 207
Oakley, Miranda 1017
Oaks, Edwin 750
Obadofin, Michael 692
Obara, Marcos T. 997
Obaro, Stephen 20, 353
Obeng-Adjei, George 195, 198
Ocampo, Clara 886
Ocaña-Mayorga, Sofia 400
Ochieng, Benjamin 15
Ockenhouse, Christian F. 219
Ocran, Anastasia R. 190
Odaibo, Alexander B. 155, 193, 547
Odunga, Oscar Amos 20, 353
Oduola, Ayoade M. J. 524, 527
Oduro, Abraham 103
Offianan, Toure A. 496
Ofori, Michael 192
Oguche, Stephen 651
Ogututu, Bernhards 12, 219, 735
Ohrst, Colin 173, 174, 357, 520, 650
Oishi, Kazunori 119
Ojurongbe, Olusola 523
Okafor, Christian M. F. 193
Okatcha, Tunika I. 839
Okebe, Joseph 197, 210
Okeke, Iruka N. 741
Okoko, Brown 384
Okyay, Pinar 788
Oladepo, Oladimeji 406
Olayemi, Oladapo 179
Oleinikov, Andrew V. 580
Oliveira, Bruna B. 752
Oliveira, Fabiano 395
Oliveira, Francisco M. B. 1032
Oliveira, Guilherme 286
Oliveira, Luiz F. 69, 396, 1039, 1052
Oliveira, Tricia M. 482
Olivier, Martin 977
Olley, Benjamin 404
Olliaro, Piero L. 378, 497, 506, 634, 968, 1005
Olorunsogo, Olufunsho O. 524
Olsen, Sonja 329
Olsen-Rasmussen, Melissa 991
Olson, Carol A. 476, 519, 811
Olson, Kenneth E. 231, 279, 441, 455, 641, 993, 1038

Olson, Victoria A. 614
Oluwagbenga, Ogunfowokan P. 494
Olveda, Remigio 335
Omar, O. A. 619
Omar, Thiaw 553
Omariba, Duke 735
Ombok, Maurice 587
Omer, Rihab A. O. 372
Omondi, Amos K'Ogal 353
Omosun, Yusuf O. 193
Onagan, Mario 708
Ong, Sivuth 26
Ong'écha, John Michael 20, 200, 321, 353, 548, 549, 694, 707, 1056
Onwuliri, Celestine O. E. 100, 413
Onyona, Phillip 338
Ooi, Mong How 1042
Opoka, Robert O. 695
Opondo, Dorothy 321
Orago, Alloys 20, 200, 321, 557
Oramasionwu, Gloria E. 178
Orengo, Jamie M. 649
Oria, Reinaldo B. 745, 748, 752, 753
Orlandi-Pradines, Eve 238
Oronsaye, Francis 910
Ortega, Oscar 86, 110, 684
Ortiz, Gloria M. 54
Osborne, John 274
Ose, Kenji 1027, 1035
Osei-Atweneboana, Mike Y. 386
Osinubi, Omowunmi Y. O. 99
Osman, Ahmed 1032
Osman, Rashid 619
Osorio, Jorge E. 114, 446, 471
Osorio, Lyda 837
Ospina, Marta C. 446, 758
Ostera, Graciela R. 487
Oswald, William E. 749, 903
Othoro, Caroline 46
Otieno, Kephias 338
Otieno, Michael 20, 200, 321, 557
Otieno, Richard 20, 200, 321, 353, 548, 549, 694, 707, 1056
Otieno, Walter 735
Otsuki, Hitoshi 208, 575
Ou, Ruguang 493, 798, 861
Ouattara, Amed 14
Ouedraogo, André Lin 846
Ouedraogo, Jean-Bosco 423, 424, 682, 709, 833, 835
Ouma, Collins 20, 200, 321, 353, 548, 549, 694, 707, 1056
Ouma, Peter 338, 339, 351
Ouma, Yamo 20, 549, 694, 707, 1056
Ovleda, Remigio M. 70
Owen, Robert 929
Owiredu, Williams K. B. A. 596
Owusu-Agyei, Seth 651, 726
Owusu-Ofori, Ruth 726
Oyakhromen, Sunny 10
Özbel, Yusuf 61, 148, 788, 791

P

Pablo, Archie O. 70
Pachas, Paul E. 738, 898, 1046
Pacheco, Maria A. 860
Pacheco, Robinson 797
Padierna-Mota, Cecilia 269
Padilla, Carlos 738
Padilla, Gabriel 713
Padilla-Raygoza, Nicolas 787
Paessler, Slodovan 928
Page-Sharp, Madhu 1007
Pagés, Frederic 238
Paik, Ik-Hyeon 653
Painter, Heather J. 365, 858, 859
Pal, Subhamoy 444
Palacios, Ricardo 43
Palma, Patricia V. B. 757
Palmer, Dupeh R. 445
Palys, Tom J. 102
Pam, Sunday 692
Pandey, Basu D. 789
Pandey, Krishna 85
Pandey, Kishor 789
Panella, Amanda J. 1043
Pantenburg, Birte 610
Papadopoulou, Barbara 1068
Pape, W. J. 888
Parashar, Umesh 439
Pardo, Edwin H. 759
Paredes, Maribel 541
Parekh, Falgunee 216
Parida, Manmohan 617
Park, Daniel J. 162, 204, 579, 368
Park, Jae-Won 157
Park, Mi-Hyun 267, 538
Parker, William 923
Parmakelis, Aristeidis 872
Parmenter, Cheryl 958
Parra, Beatriz 759
Parra, Johanna A. 43
Parsons, Michele 15
Parsons, Marilyn 647
Parulekar, Varsha 384
Pasay, Cielo J. 433
Pascual, Mercedes 999
Passara, F. 957
Passos, Sara 380
Pastor, Giovanna 750
Patarakul, Kanitha 784
Patel, Jigar J. 854, 939
Patel, Nikki 995
Patel, Samir N. 632, 799, 1018
Patel, Vishal 652, 824, 1013

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Patra, Kailash P. 370
Patrican, Lisa A. 601
Patterson, J. L. 278
Patterson, Noelle B. 11, 48, 304, 581
Pau, Maria Grazia 44
Paulke-Korinek, Maria 122
Pearce, Edward J. 1010
Pearson, Mark S. 987
Pearson, Richard D. 313, 479
Pecor, James 598
Peel, Bethany A. 140
Pelleau, Stephane 831
Pelly, Tom 680
Penali, Louis K. 496, 651
Penha-Gonçalves, Carlos 800, 1019
Penhoat, Kristell 238
Pennington, James E. 234, 975, 976
Peou, Sok 934
Pérez, Gerardo 106
Perez, Juan 750, 884
Pérez, Ligia del Pilar 837
Pérez, Pilar 837
Pérez-Guerra, Carmen 109, 458
Pergam, Steven 663
Perkins, Douglas 20, 200, 321, 353, 548, 549, 694, 707, 1056
Perng, Guey 2
Perraut, Ronald 81, 214
Persson, Kristina E. M. 300, 550
Peruski, Leonard 327, 329, 330, 331, 908, 911, 915
Pesanti, Ed 1045
Pesce, John T. 309
Pesko, Kendra 121, 582
Peters, Jennifer M. 563
Petersen, Carolyn 10
Petersen, Christine A. 142, 143, 315
Petersen, Kimberly S. 653
Petersen, Lyle 348
Peterson, Ingrid 698
Peterson, Kristine 964
Peterson, Stefan 93
Peto, T.E. 207
Petri, William A. 964, 966
Petritus, Patricia M. 320
Pettifor, Audrey E. 228
Peyer, Martina 1076
Peyton, David H. 655
Pfarr, Kenneth 388, 389, 785
Pfeffer, Martin 463
Phillips, Rebecca 1071
Phoolchareon, Wiput 924
Phuc, Ha Van 456
Piacentini, Mauro 158
Piarroux, Renaud 377
Piccinali, Romina V. 394
Pichyangkul, Sathit 218
Pickering, Darren 987
Picot, Stéphane 968, 973
Pierre, Dorny 33
Piesman, Joseph 1060
Pilakasiri, Chaiyaphruk 783
Pilakasiri, Kajee 783
Pilotte, Nils 781
Pimentel, Guillermo 715
Pineda, Sandy 403
Pinedo-Cancino, Viviana V. 786
Pinel, J. 511
Piola, Patrice 1004
Pion, Sébastien D. 773, 776
Piper, Samantha N. 362, 778
Piriou, Erwan 303
Piscoya, Luis 31
Pitmang, Simon 651
Pitzer, Kevin 503
Plakson, Nicole 643
Pletnev, Alexander 124
Pletnikov, Mikhail 277
Plikaytis, Brian 384
Plouffe, David 369
Plowe, Christopher V. 14, 324, 421, 492, 530, 834, 969, 1053, 1058
Pochet, Nathalie 369
Poddar, Goutam 281
Pohlig, Gabriele 476
Polhemus, Mark 735
Polhemus, Mark E. 578
Pollack, Richard J. 244, 891
Polley, Spencer 302
Pollissard, Laurence 451
Polson, Hannah E. 214
Pompeu, Margarida M. 479
Ponce, Carlos 787
Ponce, Daphne 683
Ponce, Elisa 787
Pond-Tor, Sunthorn 335
Pongponratn, Emsri 604
Pongsiri, Montira 721
Pongsuwanna, Yoawapa 960
Pongtavorpinyo, Wirichada 936
Ponmee, Napawan 939
Ponnusamy, Loganathan 589
Poo, Jorge Luis 344
Porcella, Steve 964
Porta, Hirva 569
Porten, Klaudia 722
Porter, Kevin 115, 345, 346, 444
Porto, Aurelia F. 283
Portocarrero, Milagrytos 33
Posner, Gary H. 653, 1067
Potts, James A. 453
Poudiougou, Belco 712
Poulakakis, Nikolaos 872
Povoa, Marinete M. 882
Powell, Jeffrey R. 872
Powell, Michael 804
Powers, Ann M. 993
Pradel, Gabriele 36
Pradhan, Anupam 862
Pradines, Bruno 238, 818
Prager, Martin 797
Prajapati, Surendra K. 202
Prapasiri, Prabda 327, 924
Preaud, Jean-Marie 384
Premaratne, Prasad H. 191
Premji, Zul 163, 651, 1021
Presber, Wolfgang 864
Prestwood, Tyler R. 7
Preziosi, Marie-Pierre 384
Pri-Tal, Benjamin M. 944
Price, R N. 354, 486, 544, 701
Prichard, Roger K. 133, 386, 776
Pridjian, Gabriella 473
Prigge, Sean T. 367, 656, 817
Prigozhin, Daniil M. 7
Proano, Roberto 387
Proctor, Melanie C. 606, 1044
Prue Marma, Aung Swe 636
Pruett, Khadeeja 520
Puerto, Fernando I. 465
Pulliam, Juliet R. C. 956
Purcell, Lisa A. 36, 166
Purcell, Robert H. 959
Purfield, Anne E. 816
Pusic, Kae 305
Pusnik, Mascha 1070
Putaporntip, Chaturong 542, 545
Puthawathana, Pilaipan 960
Putnak, Robert 346
Putnam, Shannon 681
Puyol, Laura 306
Pybus, Oliver G. 616, 688
- ## Q
- Qadri, Firdausi 18
Qazi, Shamim A. 678
Qi, Yumin 871
Qian, Feng 576
Quaresma, Juarez A. S. 123, 131
Quashie, Neils B. 516
Queiroz, Jose W. 313
Queiroz, Nina M. Gual. Pimenta de. 482
Queiroz, Telma B. S.
Queiroz, Telma B. S. 479, 1047
Quelal, Claudia 837
Quelhas, Diana 306
Quinn, Matthew 3
Quinn, Thomas C. 96
Quinnell, Rupert 792
Quino, A. H. 416
Quiñones, Luz 112
Quinonez, Javier 403
Quintó, Llorenç 306
Quiroz, Evelia 118
Quispe, Jose 19
Quispe-Machaca, Victor 627
Qvarnstrom, Yvonne 810
- ## R
- Rachaphaew, Nattawan 515
Rada, Liliana 796
Raghavan, D. 90
Raghavan, Nithya 1049
Rahman, Mahmudur 281, 955
Rai, M. 378
Raj, Dipak K. 562
Rajan, Latha 733
Rajapandi, Thavamani 209
Rajatileka, Shavanthi 232
Ramalho-Ortigao, Marcelo 64, 395, 397
Ramanathan, Roshan 135
Ramanathan, Suresh 506, 1006
Ramboer, Isabelle 10
Ramer-Tait, Amanda 315
Ramey, Kiantra I. 147, 804
Ramhalo-Ortigao, Marcelo 670
Ramirez, Jhon 623
Ramirez, Jose L. 640
Ramírez, Luis R. 106
Ramirez, Ruth E. 758
Ramírez-Sierra, Maria J. 151, 152
Ramos, Celso 465
Ramos, Daphne D. 30
Ramos, Mary M. 112
Ramos, Simone G. R.. 137
Ramos-Avila, Adriana 188
Ramsey, Janine M 996, 1038
Ramzan, Afroze 678
Ramzy, Reda M. R. 360, 361, 1014
Rana, Saleem M. -. 522
Randeniya, Preethi V. 191
Randrianariveelojosia, Milijoana 717
Randrianasolo, Laurence 717
Ranford-Cartwright, Lisa 516
Rangel-Castilla, Leonardo 32
Ranson, Hilary 232, 865
Rao, P.V. Lakshmana 617
Rao, Ramakrishna U. 777, 779
Rasgon, Jason L. 870, 878, 980
Rasmussen, Sonja 473
Rath, Bruno 627
Rathod, Pradip K. 939
Ratsimbasoa, Arsene 717
Raviprakash, Kanakatte 115, 345
Raymond, JoLynne 992
Rayner, Julian C. 163, 847
Raza, Ahmed 1058
Razuri, Hugo R. 332
Rea, J 1001
Read, Amber L. 624
Recuenco, S. 957
Reddy, Heather L. 606

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Reed, Steven G. 141
Reeder, John C. 159, 973
Reese, Paul B. 132
Reeve, David 771
Regev, Aviv 369
Regis, David R. 11, 216, 304, 581
Regnery, Russell L. 614, 991
Reiling, Linda 300, 550
Reilly, Heather B. 160
Reinbold, Drew D. 820
Reis, Mitermayer G. 98
Reisen, William K. 459, 584, 601
Reiskind, Michael H. 582
Reist, Martin 97
Reiter, Karine 576
Remarque, Ed 192
Remich, Shon A. 735
Remoué, Franck 238
Ren, Xiaoxia 980
Renaud, François 38
Rendi- Wagner, Pamela 687
Rengifo, Graciela 759
Rengifo, Silvia 541
Renia, Fabrice 81
Renom, Montse 8, 9, 572
Renslo, Adam 292
Renteria, Ivy M. 371
Resoulinejat, Mehrnaz 743
Ressner, Roseanne 715
Restrepo, Berta N. 758
Restrepo, Marco 758
Reuter, Stefan 375
Revolorio, Leonicio 403
Reyes, Luisa 138
Reyes, Miguel 684
Reyes, Maria S. 216
Reyes, Sharina 11, 304
Reynolds, Kevin A. 817
Reynolds, Mindy 335
Reynolds, Mary G. 614
Reynolds, Steven J. 96
Reynoso-Ducoing, Olivia A. 273
Rezaeian, M. 399
Rezende, Antônio M. R. 568
Rhodes, Julia 329
Rhorer, Janelle 379
Riarte, Adelina 89
Ribeiro, Antônio Augusto C. M.. 752
Ribeiro, Isabela 497
Ribeiro, Jose M. 665, 876
Rice, Janet 259
Richard, Patrice 81
Richards, Allen L. 434, 438, 1065
Richards, Frank O. 422, 700, 770, 849
Richards, Jean M. 627
Richards, Jack S. 300, 550, 551
Richardson, Jason H. 401, 598, 989
Richie, Thomas L. 11, 43, 48, 216, 217, 304, 412, 581
Ricklefs, Stacy M. 964
Rieckmann, Karl H. 173, 174, 187
Riehle, Michael A. 944
Riehle, Michelle M. 876
Rienthong, Somsak 327
Riley, Eleanor 197, 696
Ringwald, Pascal 968
Rios, M. 416
Rios, Melisa 837
Riscoe, Mike 822
Ritzhaupt, Larry 517
Rivera, Aidsa 112
Rivera, Pilarita T. 564
Rivera, Yisel A. 472
Rizvi, Mushahid A. 202
Robays, Jo 481
Robbins, Gillian E. 477
Roberts, Donald R. 60
Roberts, René N. 490, 798, 861
Robich, Rebecca M. 244, 690, 891
Robinson, Amara L. 543, 674
Robinson, Jaimie S. 128
Robinson, Leanne J. 301
Robinson, Ralph D. 132
Rocha, Crisanta 25, 110
Rocha, C. 930
Rocha, Leonardo 43
Rocha, Manoel O. C.. 316
Roche, Claudine S. Moere
Tevahinetumataunurauarii 449
Rochette, Annie 1068
Rochford, Rosemary 303, 557
Rodas, Antonieta 403
Rodolfo, Carlo 158
Rodrigo, W. W. Shanaka I. 457
Rodrigues, Flávia G. R. 237
Rodrigues, Janneth 885
Rodriguez, Ane 171
Rodriguez, Ana 36, 166, 649
Rodríguez, Beatriz 512
Rodríguez, Glenda 836
Rodríguez, Mary L. 35, 371
Rodriguez, Rocio 627
Rodriguez, Richard 680
Rodriguez, Silvia 30, 31, 33, 35, 371
Rodriguez-Barraquer, Isabel 797
Rodríguez-López, Jannete R. 188
Rodriguez-Morales, Alfonso J. 796, 1000
Rodríguez-Morales, Sergio 270, 271
Roehrig, John T. 1
Roellig, Dawn M. 998
Rogayah, Hanifah 736
Rogers, Kathleen 609
Rogers, Matthew 792
Rogers, William 597
Rogerson, Stephen 552, 693, 808
Rogier, Christophe 238, 818
Rojas, Natalia 35
Rojas, Yanina 738
Roldan, William H. 381
Rollin, Pierre E. 281, 955
Romanos, Eduardo 512
Romero, Héctor 89
Romero-Estrella, Sagrario 996
Romero-Severson, Jeanne 874
Romig, Thomas 372
Romoser, William S. 601
Ronan, Jambou 553
Roncal, Norma E. 656, 817
Roncales, Maria 826
Roongruangchai, Jantima 783
Roonruangchai, Kosol 783
Roper, Cally 569
Rosado-Paredes, Elsy 465
Rose, Angelika 433
Rose, Robert C. 3, 457
Rosenbaum, Paula 557
Rosenberg, Helene 390
Rosenberg, Melissa B. 382, 917
Rosenthal, Andrew S. 653, 1067
Rosenthal, Philip J. 340, 352, 423, 675, 705, 706
Ross, Amanda 671
Rossiter, Louise 433
Rossnagle, Eddie 580
Rota, Paul 281, 955
Rothman, Alan 24, 453, 765, 767
Rouamba, Noel 423, 424
Rouse, Petrica 229, 838
Roux, Kenneth 692
Rowe, Alexander K. 339
Rowe, Chris 49
Rowe, J. Alexandra 702, 1058
Rowland, Mark 230
Rowland, Michelle 1060
Rowton, Edgar 318, 483
Roy, Lipi 733
Roy, Manojit 959
Rubins, Kate 992
Rubio-Palis, Yasmin 867
Rueda, Leopoldo M. 881
Ruehlen, Nevada 55
Ruel, Theodore D. 705
Ruelas, Debbie S. 292
Ruiz-Espinoza, Gustavo E. 269
Rukmani, S 666
Rulisa, Stephen 635
Rupprecht, C. 957
Rush, Amy C. 777
Rush, Margaret A. 652, 821
Russell, Ian J. 1023
Rutta, Acleus S. M. 842
Ryan, Elizabeth M. 860
Ryan, Edward T. 18, 609
Ryan, Peter A. 644, 979
Ryder, Robert 703

S

- Saad, Magdi 925
Saavedra-Rodriguez, Karla L. 626
Sabeti, Pardis C. 162, 368, 579
Sabin, Lora 535
Saborio, Saira 684
Sacarlal, Jahit 8, 9, 572
Sacchettini, James C. 505
Sacci, John B. 158
Sack, Christopher V. 68
Sackey, Sammy T. 198
Sacko, Noumouny 186, 259
Sadacharam, K. 666
Sadasivaiah, Shobha 224
Sadi, Johari 842
Sadofsky, Moshe 146
Sagara, Hawa 409, 710
Sagara, Issaka 421, 492, 635, 717
Sagay, Solomon 692
Sagno, Jean 186, 259
Sagoe, Miriam A. 275, 899
Sah, Binod K. 28
Saha, Sankar K. 1041
Sailor, Karen 722
Saintpere, Fabrice 81
Saito, Mariko 119
Saito, Mayuko 680
Sako, Yasuhiro 72, 375
Salako, Lateef A. 179
Salam, Mohamed F. 361
Salanon, Christophe 442
Salanti, Ali 49
Salas, Carola J. 416, 525, 526
Salasek, Michael 1038
Salazar, Milagros 928
Saldarriaga, Emilia 683
Sales, George André F. 752
Salika, Prasert 327, 915
Salimnia, Hussain 719
Sall, Amadou Alpha 466, 689
Sallum, Maria A. 882
Salvador-Recatala, Vicenta 1031
Salvana, Edsel 358
Sam-Agudu, Nadia A. 695
Samake, Mariam 917
Samake, Youssouf 508
Samarakoon, Sajeewani U. 854
Same-Ekobo, Albert 717
Sammons, Scott 274, 991
Sampson-Johannes, A. 730
Samsi, Kiki M. 766
Sanchez, Cesar 986
Sanchez-Burgos, Gilma 152
Sanchez-Vargas, Irma J. 441, 455
Sandhu, Gurjinder 680
Sandoval, Claudia 1000
Sandoval, Marco A. 852
Sang, Rosemary C. 598
Sangare, Lansana 508

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Sangsuk, Leelaowadee 327, 329, 915
Sangweme, Davison T. 325
Sanogo, Kassim 421
Sanogo, Kassoum M. 382
Sanogo, Yibayiri O. 1040
Sanprasert, Vivornpun 784
Santana, Mirta 398
Santhosh, S.R. 617
Santiago, Gilberto A. 754
Santiago, Jose 55
Santillan, Frida 852
Santivañez, Saul J. 35, 371
Santolalla, Meddly L. 416, 526
Santolamazza, Federica 871
Santos, Cleiton 98
Santos, Eduardo M. Tarazona 568
Santos, Silvano B. 283
Sanz, Laura 171
Sanz, Sergi 306
Sarfati, Patrice 442, 443
Sarmiento, Maria 175
Sarr, Ousmane 162, 204, 368, 369, 1021
Sathe, Neeraj 124
Sattabongkot, Jetsumon 484, 515, 574, 575
Sauerwein, Robert 846
Saul, Allan 47, 213
Saunders, David L. 173, 174, 415, 1008
Savage, Mason Y. 59, 998
Sawanpanyalert, Pathom 107
Sawanyawisuth, Kittisak 428
Sawyer, L. 730
Saxena, Ajay 182
Saxena, Parag 617
Scanfeld, Dan 369
Scanga, Charles A. 667
Scaraffia, Patricia Y. 236
Scarborough, Robin 274
Schachter-Broide, Judith 394
Schaecher, Kurt E. 430, 565, 832, 863, 934
Schaefer, Brian C. 309
Schaffner, Stephen F. 162
Schaffner, Stephen J. 368
Schal, Coby 589, 889
Schantz, Peter M. 101, 134
Schiehser, Guy A. 173, 174, 505
Schillinger, Anne-Sophie 234
Schimmenti, Lisa A. 695
Schlarman, Maggie S. 493, 861
Schlesinger, Jacob J. 3, 457
Schmaedick, Mark A. 890
Schmaljohn, Connie S. 612
Schnabel, David 619
Schneider, Andre 1070
Schneider, Henning 803
Schneider, Petra 846
Schneider, Toni 1031
Schneider, Timothy G. 366
Schofield, Christopher J. 400
Schofield, Louis 301
Schönian, Gabriele 864
Schuller, Elisabeth 687
Schwartzman, Kevin 383
Schwenk, Robert J. 319
Schwenkenbecher, Jan M. 988
Scopel, Kézia K. 697
Scott, James 328
Scott, Mathews 624
Scott, Robert M. 429
Scott, Thomas W. 264
Scovill, John 102
Se, Youry 934
Seck, Yacine 831
Secor, W. Evan 307, 310, 664
Sedegah, Martha 11, 304, 581
Sedyaningsih, Endang 681
Seear, Michael 90
Seethamchai, Sunee 542, 545
Segeja, Method D. 842
Segovia, Rosana 328
Seiber, Eric 543
Seitz, Amy E. 786
Sejvar, James J. 1041
Self, Joshua S. 614
Sellers, Morgan 870
Sembuche, Samwel H. 842
Semnani, Roshanak 665
Senthong, Wichai 428
Sept, David 1002
Sepulveda Toepfer, Jorge A. 629
Sere, Yves 423
Serpa, Jose A. 32
Serra-Casas, Elisa 306
Serrano, Adelfa E. 836
Serwadda, David 96
Seth, Misago 842
Setha, To 897
Seto, Edmund 675
Severson, David W. 239, 873, 874
Sevilleja, Jesus Emmanuel A. D. 745, 751
Sewell, Charles M. 663
Seydel, Karl 1053
Shaffer, Donna 213
Shahan, David N. 276
Shaheen, Hind I. 905, 906
Shaikh, Gulvahid 907
Shang, Chuin-Shee 105
Shanks, G. Dennis 42, 173, 174, 187
Shapiro, Theresa A. 653
Sharakhov, Igor V. 869, 1028
Sharakhova, Maria V. 869, 1028
Sharar, Kristin L. 7
Shardell, Michelle 731
Shareef, Mohammed O. 907
Sharif, S. K. 546
Sharma, Navneet 432
Sharma, Yagya D. 201, 528, 877
Shaw, Alexandra 794
Shea-Donohue, Terez 983
Sheff, Kelly 330, 331, 908
Shepard, Donald S. 27, 28, 118, 350, 764
Sher, Alan 964
Sherchand, Jeevan B. 789
Shi, Pei-Yong 661
Shi, Weibin 753
Shiff, Clive J. 896, 938
Shililu, Josephat I. 248
Shimp, Jr., Richard L. 576
Shin, Dongyoung 239
Shin, Eun-Hee 567, 608
Shin, Mi-Young 157
Shipton, Warren 713
Shoemaker, Charles B. 333, 629
Shoemaker, David 379
Shoemaker, Ritchie C. 417, 418, 419
Shokoples, Sandra E. 815
Shott, Joseph 44, 96
Shouche, Yogesh S. 869
Showalter, Melissa 630
Shresta, Sujana 7, 762
Shrestha, Mrigendra P. 429
Shrestha, Sanjaya K. 429
Shrivastava, Sandeep K. 521
Shukla, M. M. 201
Shusko, Michael 415
Shustov, Alexandr V. 658
Si, Yuanzheng 168
Siba, Peter 1007
Sibley, Carol H. 173, 174, 533, 827, 828
Sibley, L. David 1075
Sidibe, Bakary 421, 492, 835, 1057
Sidy, Sidy 508
Sieber, Eric 674
Sievers, Amy 734
Sigiscar, Marcel 81
Sihom, Francois 722
Sikaala, Chadwick 841
Sikalima, Jay 938
Silachamroon, U. 1006
Silengo, Shawn J. 1, 114, 471
Sillman, Marla 8, 572
Siludjai, Duangkamon 430
Silumbe, Kafula 844
Silva, Breno M. 450
Silva, Claudia J. 727
Silva, Natal S. 697
Silva, Sheyla 25
Sim, Cheolho 233
Sim, Kim Lee 216
Simard, Frédéric 38, 865, 872, 1027, 1035
Simmons, Cameron 22
Simmons, Kaneatra J. 154, 648
Simmons, Monika 115, 346
Simoes, Mariana 286
Simon, Markus 949
Sims, Jennifer S. 1013
Sims, Peter A. 1013
Sinagra, Angel 89
Singer, Burton H. 851
Singh, Balwan 806
Singh, Mrigendra P. 182, 183, 341, 535, 1055
Singh, Neeru 182, 183, 194, 201, 341, 528, 535, 1055
Singh, Naresh 251
Singh, Paramjit 432
Singh, Puspendra P. 182, 341
Singh, Upinder 1048
Sinha, Prabhat K. 85
Sinishtaj, Sandra 653
Sinnis, Photini 505
Siplanyambe, Nawa 569
Siqueira, Isadora 283
Siqueira, João B. 28, 764
Siribie, Aboubacar 709
Siriyanonda, Duangsuda 618
Sirois, Patricia 473
Sissako, Aliou 508, 510, 856
Sissoko, Ibrahim M. 868
Sissoko, Sibiry 712
Sitdhirasd, Anussorn 330
Sitdhirasd, Anussorn 331, 908
Siu, Edwin 187
Skarbinski, Jacek 21, 338, 339, 351
Skelly, Patrick J. 333, 629
Skinner-Adams, Tina S. 165, 500
Skowren, Gail 1045
Slatko, Barton 782
Slemenda, Susan B. 810
Slotman, Michel A. 872
Slutsker, Laurence 338, 339, 351, 546, 546
Slutsker, Laurence 175
Small, Jennifer 989
Smilkstein, Martin 822
Smith, Alan 983
Smith, Adrian D. 356
Smith, Bryan 934
Smith, Craig S. 954
Smith, Derek 483
Smith, David 805
Smith, David L. 532
Smith, Jan 771
Smith, Joe D. 49, 580
Smith, Kirsten 168
Smith, Kristin E. 942
Smith, Martin 1068
Smith, Thomas A. 671
Smith, Valerie 356
Smoak, Bonnie L. 332, 618

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Snavely, Jeffrey D. 1015
Snow, Robert W. 339
Soares, Irene S. 697
Sobhon, Prasert 783
Soblik, Hanns 985
Sobry, Agnes 722
Sobsey, Mark D. 53, 54, 56
Socheat, Doung 350, 897, 934, 1004
Sodahlon, Yao K. 720
Soisson, Lorraine 11, 12, 48, 219, 304, 581
Sokhna, Cheikh A. 214
Solano, Maria Gabriela 136
Solano, Mayra E. 894
Solomon, Tom 1042
Solorzano, Nelson 738, 898, 1046
Somboon, Pradhya 232
Song, Jin-Won 958
Songprakhon, Pucharee 2
Sonmez, Gulden 791
Soong, Lynn 668
Soremekun, Seyi 792
Sorgi, Carlos A. S.. 137
Sosa, Iris 754
Sosa-Estani, Sergio 787
Soto, Giselle 680, 728
Soto, Jaime 1001
Soumaoro, Lamine 952
Soumbey-Alley, Edoh William 772
Sousa, Anastacio Q. 479, 1047
Sousa, Tais N. 570
Souza, Daniela I. S.. 137
Souza, Estéfano A. 697
Sow, Samba O. 326, 382, 384, 740, 917
Sowunmi, Akintunde 88, 524, 527, 651
Specht, Sabine 389
Speicher, James 124
Spicher, Martin 75, 376
Spielman, Andrew 244, 690, 891, 1045
Spillmann, Cynthia 392
Spithill, Terry W. 36, 166
Spranger, Stefani 288
Spray, David C. 805
Spring, Michele D. 220, 556
Srikiatkhachorn, Anon 453, 763
Srivastava, A. 617
Sriwichai, Sabaihip 934
St-Jean, Miguel 1075
Staedke, Sarah G. 340, 343, 352
Staerk, Katharina 97
Stahle, David W. 732
Staley, John 187
Stanisic, Danielle I. 159, 301, 551, 552
Stanuszek, William W. 599
Stapleton, Jack T. 313
Starnes, G. Lucas 1075
Starzengruber, Peter 636
Stauber, Christine E. 54
Stav, Gil 1034
Stayback, Gwen 64, 395
Stedman, Timothy 209
Steel, Cathy 950
Steen, Hanno 985
Steinauer, Michelle L. 336
Steinbeiss, Victoria 11
Steindel, Mario 997
Steiner, Kevin 153
Steketee, Richard W. 543, 671, 674, 844
Sterling, Charles 266
Steurer, Frank J. 786
Stewart, V. Ann 44, 218
Stiasny, Karin 687
Stiles, Jonathan K. 147, 194, 804, 1055
Stiles-Ocran, Joseph B. 596
Stinchcomb, Dan T. 114, 471
Stolk, Wilma A. 359, 676
Stoltzfus, Rebecca J. 180
Stoney, Jillian R. 501
Storlie, Patricia A. 144
Stout, Barbara A. 285
Stout, John 982
Stoute, José A. 189, 219
Stracener, Catherine N. 189
Stramer, Susan 348
Street, Ian 554
Strickland, G. Thomas 731
Stripen, Boris 1069
Strode, Clare 621
Strohbusch, Maria 963
Stromdahl, Ellen Y. 435, 1065
Stubbs, Jose 612
Stuedli, Angela 605
Sturtevant, Joy 140
Styer, Linda M. 659
Su, Xinzhan 209
Suarez, David L. 994
Suarez-Ognio, Luis A. 104, 728, 738, 1046
Suaya, Jose A. 27, 28, 118, 350, 764
Suazo, Harold 645
Subhadra, Bobban 624
Subrahmanyam, Sreenath 396
Subramanian, Ramanand A. 945
Suchman, Erica L. 625
Sughayyar, Rana 28, 764
Sugiarto, P 354, 701
Suguitan, Amorsolo 559
Sujariyakul, Anupong 784
Sukhbaatar, Munkhzul 23
Sukprasert, Walailuk 107
Suktawonjaroenpon, Wachira 515
Sukthana, Yaowalark 604
Sulaiman, Irshad M. 274
Sulaiman, Nikhat 274
Sullivan, Andrew K. 316
Sullivan, David J. 961
Sultan, Ali A. 163
Sultana, Rebeca 281
Sumba, Peter O. 556, 557
Sumibcay, Laarni 958
Sumiwi, Maria E. 736
Sun, Jianxin 62
Sun, Jian 825
Sun, Peifang 115
Sun, Peter 488
Sun, Tao 71
Sun, Wellington 346
Sun, Yanjie 923
Sundar, Shyam 378
Sunderland, Deirdre 962
Supali, Taniawati 785
Surachetpong, Win 251
Surasri, Sittidech 934
Suri, Vikas 432
Susanti, Augustina I. 76
Suswillo, Richard R. 133
Sutherland, Colin 578
Sutthirattana, Saithip 330, 331, 908
Sutton, Patrick L. 850
Suwannachote, Nantawan 586
Suwonkerd, Wannapa 586
Suzuki, Stephanie 533
Svensson, M. 1071
Swa, Tidjane 496
Swaby, James 444
Swalm, Christopher 259
Swan, Ken 473
Swayne, David 994
Swierczewski, Brett E. 295
Sygusch, Jurgen 1075
Sylla, Mariam 326, 712, 740
Sztein, Marcelo B. 324
Szumlas, Daniel E. 61
T

Tabouret, Marc 442, 443
Tachibana, Mayumi 575
Tadesse, Eyob 693
Tahita, Marc Christian 682
Tajima, Shigeru 686
Takahashi, Paula 761
Takala, Shannon L. 14, 530, 969
Takasaki, Tomohiko 686
Takeo, Satoru 484, 574
Talaat, Kawsar R. 390, 667
Tall, Adama 214
Tall, Kouressi 409
Tam, Doan Thi Minh 456
Tamami, Matsumoto 89
Tamang, Leena 962
Tamarozzi, Francesca 72
Tamayo, Pablo 369
Tamboura, Boubou 740, 917
Tammaing, Cindy 115
Tan, Asako 160
Tanabe, Kazuyuki 564
Tang, Guanhong 236
Tang, Kevin 274
Tangpukdee, N 519
Tangpukdee, Noppadon 811
Tangpukdee, Noppadom 1006
Tanner, Marcel 41, 227, 261, 729, 845, 848, 851
Tanowitz, Herbert B. 146, 805
Tanyuksel, Mehmet 431
Tapia, Milagritos D. 326, 382, 384, 740, 917
Tapiero, Bruce 383
Tapley, Erin C. 561
Tappe, Dennis 375
Taqui, Carmen 31
Taraika, Jack 301
Taranto, Néstor 89
Taraschi, Theodore F. 366, 531
Tarazona-Santos, Eduardo 570
Tardif, S. D. 278
Tariq, Parveen 678
Tarleton, Rick L. 1072, 669
Tarnagda, Zekiba 682, 709
Tasca, Karen I. 482
Tatay, Mercedes 725
Tate, Jacqueline 15
Tatto, Erica 997
Tauber, Erich 122, 687
Taylor, Charles E. 868
Taylor, Dennis 654
Taylor, Diane Wallace 425, 559
Taylor, Ronald P. 199, 323
Taylor, Terrie E. 530, 834, 969, 1021, 1053
Taylor, Walter 506, 634, 1006
Tazir, Yasmina 985
Tchinda, Viviane H. M. 425
Teale, Judy M. 34
Teixeira, Andrea 291
Teixeira, Clarissa R. 69, 391, 981, 1039, 1052
Teja-Isavadharm, Paktiya 934
Teklehaimanot, Awash 698
Tekwani, Babu L. 862
Telford, Sam 50, 901, 1045, 1062, 1063
Tellez, Luis 271
Tellez, Yolanda 25
Temu, Emmanuel A. 57
Tenjo, Fernando 440
Tenorio, Michely S. 482
Teodoro, Tatiana M. 294
ter Kuile, Feiko O. 341, 497, 971
Terlouw, Dianne J. 341, 497, 971
Terp, Sophia 439

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Terpinski, Jacek 173, 174
Tesh, Robert B. 691
Tetteh, John K. 195, 198
Tetteh, Kevin 302
Teyssou, Rémy 449
Thaisomboonsuk, Butsaya 765, 767
Thalhofer, Colin J. 314
Thamthitiwat, Somsak 329, 911, 915
Thang, Cao Minh 456
Thang, Carole 716
Thangamani, Saravanan 247
Thanh, Nguyen X. 94
Thao, Thi Thu 1042
Thapa, Gyan B. 429
Thavrin, Bou Kheng T. Thavrin.
Thavrin. 80
The, Nguyen D. 94
Thea, Donald M. 678
Theander, Thor G. 843
Theisen, Michael 192
Thera, Mahamadou A. 14, 1058
Therrell, Matthew D. 732
Thesing, Phillip C. 834
Thevenon, Audrey D. 559
Thomas, Elizabeth 369
Thomas, Peter 181, 540
Thomas, Stephen 765
Thompson, Anthony 651
Thompson, Eloise 499
Thompson, Katy-Anne 499
Thompson, Winston 147
Thonnard, Joelle 8
Thorat, Swati 801
Thorpe, John 703
Thorson, Kelsey 976
Thriemer, Kamala 636
Thuma, Philip E. 229, 677, 896, 838, 938
Thumar, Bhavin 347
Thuy, Le T. T. 94
Thwing, Julie I. 223
Tiamkao, Somsak 428
Ticona, Carlos 898
Tidwell, Richard R. 816
Tielsch, James 180
Tien, Nguyen Thi Kim 443
Tigray Malaria Study Group (G. Barnabas, A. Bianchi, A. Bosman, P. Byass, G. Constanzo, P. Ibarra de Palacios, N. Jude, A. Morrone, L. Toma, Ethiopia) 718
Tiinto, Halidou 833
Tilley, Leann 654
Timmann, Christian 785
Tinelli, Carmine 72
Tiono, Alfred 651
Tipayamongkhogul, Mathuros 769
Tippayachai, Bousaraporn 515
Tisch, Daniel J. 358, 556
Tjaden, Jeffrey 115
Tjitra, Emiliana 354, 486, 544, 701, 1004
Tkach, Vasyl V. 880
Tobing, Charles 736
Tobler, Leslie H. 996
Tocheva, Anna 293, 311
Togo, Amadou 421, 492
Togo, Pierre 712
Tokumasu, Fuyuki 487, 588
Toledo, Ampara 627
Toledo, J. 1001
Toliat, Mohamad Reza 388
Tomashek, Kay M. 112, 348
Tomaszewski, Konrad 517
Tomova, Cveta 1069
Tong, Carlos 866
Tongren, Jon Eric 194, 1055
Tonnetti, Laura 606
Tontonoz, Peter 150
Torii, Motomi 208, 574, 575
Torrero, Marina N. 775, 948
Torres, Katherine 206
Torres, Pedro 826
Torres-Jiménez, Fernando 78
Torres-Slimming, Paola A. 19
Toure, Abdoulaye 1057
Toure, Mahamoudou B. 868
Toure, Sekou 421, 492, 835, 1057
Toussaint, Jean Francois 765
Tovar, Marco 680
Toxeira, Clarissa 396
Toz, Seray O. 148, 791
Tozan, Yesim 224, 534
Trampe, Ranferi 403
Tran, Thi Thuy 22
Tran, T.H. 207
Tran, Thu A. 150, 631
Tran, Thanh N. 165
Tran Nguyen, Bich Chau 22
Traore, Aminata 717
Traore, Cheick 952
Traore, Karim 14
Traore, Kalirou 712
Traore, Pierre 409, 710
Traore, Seydou 712
Traore, S. Cheick 1022
Traore, Sekou F. 868
Travers, Thomas 94
Trindade, Giliane 991
Tripathi, N.K. 617
Tripathi, Vinita 395
Trongnipatt, Namtip 515
Trongtorkit, Yuwadee 232
Tropel, David 45
Trostle, James 328
Trouern-Trend, Jonathan 795
Troye-Blomberg, Marita 193
Troyes, Lucinda 738, 1046
Troyes, Mario 898
Troyo, Adriana 894
Trueba, Gabriel 328
Trung, Dinh T. 452
Tsang, Victor C. 30, 31
Tsao, Jean 1060
Tschannen, Andres B. 729
Tsetsarkin, Konstantin A. 613, 658, 730
Tshefu, Antoinette 703
Tsuboi, Takafumi 208, 484, 574, 575
Tsuji, Moriya 805
Tsujiimoto, Hitoshi 393
Tsukayama, Pablo 475
Tsvetkova, Albina 129
Tu, Zhijian 869, 871
Tuchman, Jordan 535
Tucker, Compton J. 989
Tuiten, Wieteke 66
Tumer, Derya 900
Tumwine, James K. 426
Turato, Walter M. T. 137
Turell, Michael J. 125, 598, 880
Turnbull, Lindsey 1053
Tyo, Karen 28, 764
Tzec-Arjona, Juan L. 151, 152
Tzipori, Saul 426
- ## U
- Ubalee, Ratawan 515
Udhayakumar, Venkatachalam 194, 341, 535, 971, 972, 1055
Udomsangpetch, Rachanee 515
Ueta, Marlene T. U.. 137
Ulloa-Martínez, Marcela 188
Umaru, John 422
Umeh, Rich 651
Ungchusak, Kumnuan 911, 960
Unger, Alon 380
Unnasch, Thomas R. 363, 781, 875, 880, 926
Urban, Joseph 983
Urdaneta-Marquez, Ludmel 867, 1038
Usera, Aimee 653
Uthaipibull, Chairat 193
Utzinger, Jürg 246, 729
Uzun, Ozcan 431
- ## V
- Vahdat, Katayoun 743, 919
Vaidya, Akhil B. 365, 855, 857, 858, 859
Vaillant, Michel 378, 506, 634, 1006
Valda, L 1001
Valderamma, Carlos 886
Valderramos, Juan-Carlos 505, 940
Valderramos, Stephanie 940
Valdez-Padilla, David 270
Valenzuela, Jesus 64, 395, 397
Valenzuela, Jesus G. 69, 391, 396, 981, 1039, 1052, 1061
Valiente-Banuet, Leopoldo 996
Vaillant, M. 1005
van Buuren, Stef 497
van de Pol, Corina 520
Van den Broek, Ingrid 974
van den Eng, Jodi 736
van Dijk, Janneke 677
van Dooren, Giel 1069
Van Dyke, Melissa K. 699
Van geertruyden, Jean-Pierre 937
Van Herp, Michel 974
Vanden Eng, Jodi 223, 464, 546
Vanderberg, Jerome 37, 156
VanEkeris, Leslie A. 942
VanKirk, Nicole 55
Vanlandingham, Dana L. 613, 658, 730
Vannier, Edouard 1045
Varghese, George M. 719
Varma, Subhash 432
Vasconcelos, Helena B. 755
Vasconcelos, Pedro F. C. 123, 131, 755
Vasquez, Rene E. 668
Vasquez, Yessika 40
Vaughan, Jefferson A. 880, 883
Vaughn, David 763
Vaughn, David W. 102, 453
Vazquez Prokopec, Gonzalo M. 392
Veazey, James 520
Veenstra, Timothy D. 665
Veerman, Lennert J. 359
Vekemans, Johan 10, 572
Veland, Nicolás 475
Velasco, John Mark S. 760
Velasco de Castro Oliveira, Juliana 466, 689
Velasco-Villa, A. 957
Velázquez-Márquez, Liliana 273
Velázquez-Martínez, Israel 269
Velez, Juan Diego 43
Velez, Jason O. 128
Vello, Marianne 59
Vemuri, R 544
Venegas, Fay 844
Venkatesan, Meera 870, 878
Ventura, Gladys 738
Verani, Jennifer R. 720
Verastegui, Manuela R. 29, 35
Vergne, Edgardo 756
Verhave, Jan Peter 846
Verma, Rakesh B. 85
Verma, Saguna 460
Verma, S.K. 617

Author Index

Important Note: The number(s) following author name refer to the abstract number.

- Vernick, Kenneth D. 876
Verrey, François 333
Verter, Joel 379
Vestergaard, Lasse S. 843
Victor, Bjorn 33
Vidal, Carlos E. 850
Vidal, Jaime 826
Vieira, Carlos M. G.. 745
Viera, Juan-Carlos 387
Viera, Sara 512, 513
Vilcheze, Catherine 505
Villacis, Anita G. 400
Villacorte, Elena A. 564
Villafana, Tonya 10
Villalta, Fernando 154, 648
Villanueva Diaz, Jose 732
Villard, Claude 238
Villaseca, Pablo 884
Villegas, Zoila 738, 1046
Villinski, Jeffrey T. 61
Vinayak, Sumiti 528
Vince, Mary 435
Vinetz, Joseph M. 370, 484, 541, 866
Visconti, Sabato 1014
Vissa, Vara 78
Viveiros, Rita de C. S.. 482
Viviani, Simonetta 384
Vogt, Richard G. 600
Volf, Peter 391
Volkman, Sarah K. 162, 204, 368, 579, 1021
Volpe, Katharine E. 1
von Glasenapp, Isabelle 10
von Schubert, Conrad 1076
von Sonnenburg, Frank 122
Vong, Sirenda 26
Vossen, Matthias 636
Vounatsou, Penelope 729
Vourc'h, Gwenael 1060
Vu, T.H. 207
Vu, Thi Que Huong 451, 454
Vucsev, Dimitar 373
Vuitton, Dominique A. 71
Vulule, John 15, 20, 200, 321, 546, 548, 549, 587, 595, 694, 707, 814, 853, 1036, 1056
- W**
- Wacker, Mark A. 160
Wada, Marcelo Y. 997
Wadsworth, Mariha 64, 395
Wagner, Karen 772
Wain, John 741
Waite, Erica 296
Waitumbi, John N. 199, 215, 219, 323, 578, 1016
Walker, Edward D. 587, 595, 599, 1036
Walker, Jeffrey B. 76
Walker, Larry A. 862
Wallace, James 186
Waller, Lance A. 627, 786
Walls, Colleen D. 967
Walsh, Doug 735
Walter, Nicholas 21
Walter Reed Clinical Leishmaniasis Group 379
Walther, Michael 197, 210, 696, 812
Walton, Shelley 433
Wamachi, Alex 153
Wamulume, Pauline 355, 543
Wang, Danher 345
Wang, Eryu 927
Wang, Guangze 970
Wang, Hua 279
Wang, Heuy-Ching 610
Wang, Hui 1066
Wang, Shanqing 970
Wangrungsarb, Piyada 911
Wanionek, Kimberli 347
Ward, Honorine D. 609
Ward, Jerrold
Ward, Jerrold M. 396, 1017, 1061
Ward, Michelle 346
Ward, Steve A. 1003
Ware, Lisa A. 218
Waree, Phuangphet 604
Warikar, N. M. 354, 701
Warke, Rajas 24
Warner, Jeffrey 713
Warren, Ben 1023
Warren, Cirle A. 745
Wartel-Tram, Anh 344
Watany, Noha 61
Waterman, Stephen 110, 469
Waters, Norman C. 656, 817, 820
Watila, Ismaila 651
Watts, Douglas M. 615
Wawer, Maria J. 96
Weatherall, David J. 207, 1059
Weaver, Scott C. 278, 615, 927, 928
Webster, Francis X. 68
Weigand, Roger 821
Weil, Gary J. 360, 361, 362, 777, 779, 1014
Weina, Peter J. 167, 168, 169, 170, 318, 415, 480, 1009
Weinberg, Brice 486
Weiner, Mathew 905, 906
Weiss, Louis M. 146
Weiss, Walter 581
Welch, David 349
Wells, Michael A. 235, 236
Wendel, Clifford E. 618
Wenink, Emily 811
Werbovetz, Karl 1002
Were, Tom 20, 200, 321, 353, 548, 549, 694, 707, 1056
Wesson, Dawn W. 130, 186, 259, 473, 886, 889, 1034
Westbrook, Catherine J. 582
Weverling, Gerrit-Jan 44
Wheeler, Sarah 459
White, A. Clinton 32, 610, 986
White, Gregory S. 926
White, Nicholas J. 936, 1042
White, Sandy 390, 667
Whitehead, Stephen S. 124, 347
Whitehouse, Chris 125
Whittle, Hilton 302
Whitty, Christopher J. M. 343, 356
Wichmann, Ole 725
Wickramarachchi, Thilan A. 566
Widdowson, Marc-Alain 15, 439
Widyastuti, Endang 736
Wiegand, Roger C. 162, 204, 368, 652
Wiggan, O'Neil 114, 471
Wikel, Stephen K. 62, 247
Wilairatama, P 1006
Wildner, Tuere 311
Wilkerson, Richard C. 881, 882
Will, Roefen 846
Williams, Frank 11, 216, 304
Williams, Gail M. 71, 290, 1051
Williams, Janice 292
Williams, Jackie 319
Williams, Jeffrey F. 55
Williams, Steven A. 136, 781, 1014
Williams, Tom 300
Williams, Thomas 554
Williamson, Kim C. 518
Willis, Steven G. 594
Wills, Bridget 452
Wilson, Alan 296
Wilson, Danny 551
Wilson, Ian J. 336
Wilson, Leslie S. 996
Wilson, Marianna 101
Wilson, Michael D. 211, 596
Wilson, Mary E. 144, 313, 314, 630
Wilson, Mark L. 599, 699, 999
Wilson, Nana 147, 804, 1055
Wilson, Ron 260
Winstanley, Peter A. 1003
Winter, Rolf 822
Winters, Anna M. 888
Winzeler, Elizabeth 369
Wirth, Dyann F. 162, 204, 368, 489, 524, 527, 579, 652, 821, 824, 935, 1013, 1021
Wise de Valdez, Megan R. 625
Witzig, R. 416
Wlazlo, Anthony 124
Woehlbier, Ute 194
Wohlhueter, Robert 274
Wojcik, Richard 104
Wölfel, Roman 463, 904
Wolff, Brian 292
Wolkon, Adam 546
Won, Kimberly 101, 134
Wong, Joseph 705
Wongjindanon, Wanna 327, 329, 915
Wontuo, Peter 439
Woodard, Lauren 653
Wootton, Dan 1003
Woraratnadharm, Jan 345
Wormser, Gary 1045
Wortmann, Glenn 379, 395
Wu, Bo 782
Wu, Hai-Wei 70
Wu, Haiwei 335
Wu, Shuenn-Jue 115, 444
Wu, Wenjie 1032
Wu, Xiao-Jun 298
Wylie, Blair J. 535
Wynn, Thomas A. 309
Wypij, David 369
Wysocki, Vicki H. 236
- X**
- Xayavong, Maniphet 810
Xi, Zhiyong 640
Xia, Ai 869, 1028
Xiao, Shu-Yuan 691
Xie, Lisa 167, 169, 170
Xiong, Tie 1051
Xiong, Xu 473
Xu, Jin-Mei 70
Xu, Zhi-yi 26
Xue, Gongda 1076
- Y**
- Yabsley, Michael J. 59, 998
Yanagi, Tetsuo 789
Yanagihara, Richard 468, 958
Yancey, Linda S. 610
Yang, Hae-Won 267
Yang, Yu R. 71
Yano, Kazuhiko 208
Yanoviak, Stephen 623
Yanow, Stephanie K. 36, 166, 815
Yao, Chaoqun 144
Yaremych-Hamer, Sarah 1060
Yaro, Alpha S 1022
Yasmin, Tabassum 907
Yates, John R. 370
Yates, Terry L. 958
Yauch, Lauren E. 7, 762

Author Index

Important Note: The number(s) following author name refer to the abstract number.

Yazdani, Syed S. 191, 222
Ye-Ebiyo, Yemane 891
Yeboah-Antwi, Kojo 535
Yee, Eileen 15
Yen, Nguyen T. 644
Yeo, Tsin 486
Yeom, Joon-Sup 157
Yépez-Mulia, Lilián 269, 270, 271, 272, 273
Yeung, Shunmay 936
Yiadom, Boakye 637
Yimamnuaychok, Nongnuch 515
Yin, Yong 779
Yingst, Sam 925
Ylla-Velasquez, Jose 627
Yong, Yin 362
Yongvanitchit, Kosol 218
Yoo, Ji-Ae 157
Yoo, Won Gi 284
Yoon, In-Kyu 113, 760
Yori, Pablo P. 541
Yosaatmadja, Francisca 693
Yoshino, Timothy P. 298, 1030
Yougbare, Issaka 682, 709
Young, Mary 1045
Young, Steve 663
Yourick, Debra 502
Youssef, Fouad G. Y. 918
Ypil-Butac, Charity A. 760
Yu, Min 505
Yu, Xinling 1051
Yuesheng, Li 1051
Yumiseva, Cesar A. 400
Yurchenko, Vyascheslav 146
Yusuf, Bidemi 404
Yuwono, Djoko 766
Zheng, Feng 1051
Zheng, Hong 1017
Zhou, Ainong 425, 559
Zhou, Hong 13, 47, 48
Zhou, J. 1051
Zhou, Yingyao 369
Zhou, Zhiyong 971, 972
Zhu, Daming 213, 573
Zhu, Jianzhong 1020
Zhu, Liqun 367
Ziegler, Rolf 976
Ziegler, Sarah A. 691
Zijlstra, Edward 1003
Zimmerman, Peter A. 159, 181, 540, 695, 699, 809, 814
Zimmerman, Robert H. 883
Zinyowera, Sekesai 325
Zollner, Gabriela 185, 401
Zongo, Issaka 423, 424, 833
Zou, Xiaoyan 217
Zúniga, Concepción 787
Zurovac, Dejan 339, 351
Zwang, Julien 1005

Z

Zaidenberg, Mario 392, 398
Zaks, Laurel 16
Zamalloa, H. 957
Zambrano, Betzana 344
Zamora, Jorge 976
Zanotto, Pablo M. de A 466, 689
Zborowski, Maciej 809
Zea-Flores, Guillermo 387
Zeba, Augustin N. 709
Zeccer, Suzana 997
Zeng, Qiang 168
Zhang, Jing 167, 169, 170
Zhang, Luhua 116
Zhang, Lixin 328
Zhang, Mengzi 298
Zhang, Qiong 739
Zhang, Si-Ming 285
Zhang, Shuliu 660
Zhang, Wei 71
Zhang, Xuebin 825
Zhang, Yanling 576

Speaker and Session Chair Index for Plenary, Symposium, Meet the Professors and Mid-Day Sessions

Important Note: The number(s) following name refers to the session number.

A

Abdulla, Salim 2A, 148
Abraham, David 125
Adegbola, Richard 117
Adelman, Zach 94
Ahouidi, Ambroise 162
Allen, Judith 92
Allweiss, Pamela 28
Alonso, Pedro 117
Aly, Ahmed 67
Anderson, Tim 141
Andrade-Narvaez, Fernando 13
Andrews, Norma 16
Arevalo-Herrera, Myriam 23
Arguin, Paul 82, 95
Arnold, Keith 106
Aronson, Naomi 56
Arthur, Ray 50
Awolola, Taiwo 154

B

Baggett, Kip 112
Bailey, Robin 38
Ballou, Ripley 148
Baluk, Peter 83
Baniecki, Mary Lynn 101, 111
Bargues, M. 48
Barik, Sailen 55
Barillas-Mury, Carolina 22
Barrett, Alan 139
Barry, Michele 29, 60
Bathurst, Ian 49
Beck, Hans-Peter 93
Belkaid, Yasmine 64
Bell, David 33, 75
Bergman, Lawrence 132
Bernhardt, Scott 94
Berriman, Matthew 14
Beverly, Stephen 16, 34
Bia, Frank Plenary Session I
Binka, Fred 19
Blair, Carol 70
Blazes, David 50
Blumenthal, Denise 131
Bojang, Kalifa 114
Bolinsky, David 131
Bosch, Irene 18, 131
Boulware, David 27, 138A
Boyle, Jon 5
Branding-Bennett, David 41
Brandy, Eugene 65
Brault, Aaron 108
Breiman, Robert 112, 117, 135, 145
Brombacher, Frank 92
Brooks, W. Abdullah 115
Brooks, Alan 148
Brun, Reto 111
Brunetti, Enrico 9

Buckner, Frederick 37
Budke, Christine 9
Buguet, Alain 119
Burri, Christian 85
Burton, Matthew 38
Büscher, Philippe 56

C

Caffrey, Conor 123
Cahill, John 8
Calisher, Charles 1
Campbell, Carlos C. (Kent) Plenary Session I, 29, 41, Plenary Session III, Plenary Session IV
Carabin, H  l  ne 9
Carneiro, Ilona 126
Carucci, Daniel Plenary Session I
Carvalho, Edgar 61
Cerrell, Joe 10
Champagne, Donald 140
Charman, Susan 49
Checkley, Anna 62
Chen, Lin 138A
Cheng, Qin 17, 147
Chiodini, Peter 33
Chitnis, Nakul 80
Chizema, Elizabeth 41, 100
Cisse, Badara 114
Clark, Robert 19
Clarke, Sian 114
Cline, Barnett 60, 132A
Cohen, Joe 148
Coleman, Michael 3
Colley, Daniel 42
Coll-Seck, Awa 41, Plenary Session III
Conn, Jan 168
Conner, Stephen 58
Costero, Adriana 36
Craft, Noah 79
Craig, Alister 87
Croft, Simon 111
Cross, George 34

D

da Silva-Nunes, M  nica 122
D'Alessandro, Umberto 2A, 69
Davies, Stephen 42
de Castro, Marcia 172
de Sousa, Alexandra 126
Debboun, Mustapha 40
Dematteis, Sylvia 98
Desai, Sanjai 49
Desjeux, Phillipe 113
Diabate, Abdoulaye 163
Diallo, Dapa 170
Diamond, Michael 70
Dicko, Alassane 97, 114
Dillon, Rod 90
Dimopoulos, George 77

Diuk-Wasser, Maria 171
Djimde, Abdoulaye 93, 170
Doannio, Julien 154
Docampo, Roberto 55
Dodoo, Alexander 19, 69
Donelson, John 34
Dorsey, Grant 93
Doumbo, Ogobara 97
Dowdy, David 43
Doyle, Patricia 37
Dumler, J. Stephen 15
Dunavan, Patrick 132A
Durbin, Anna 57
Dutra, Walderez 44

E

Egan, Andrea 126
Eisen, Lars 3
El Setouhy, Maged 63
Ellis, Amy 138
El-Sayed, Najib 151
Epstein, Paul 79A
Epstein, Jonathan 144

F

Failloux, Anna-Bella 168
Fallon, Padraic 92
Farnon, Eileen 135
Feagin, Jean 96
Fenwick, Alan 7, 66
Fernandez, Facundo 116
Fikrig, Erol 15
Fillinger, Ulrike 172
Fischer, Marc 160
Fonseca, Dina 168
Freedman, David 32A, 85
Friede, Martin 126A

G

Ganley-Leal, Lisa 109
Ganta, Roman 15
Garba, Amadou 7
Garcia, Hector 21
Gargallo, Domingo 49
Gaus, David 60
Gause, William 64, 92
Gaywee, Jariyanart 124
Geisbert, Thomas 83
Genton, Blaise 54
Gerrets, Rene 138
Getachew, Asefaw 54
Ghalib, Hashim 142
Ghedin, Elodie 24
Gibson, Gabriella 163
Gilman, Robert 43, 129
Githeko, Andrew 172
Glass, Gregory 144
Gobert, Geoffrey 141
Gorbea, Hector 79

Gottlieb, Michael 40
Gottstein, Bruno 73, 98
Gotuzzo, Eduardo 125
Gould, Hannah 135
Graczyk, Thaddeus 146
Green, Michael 116
Greenaway, Christina 27, 159
Greenwood, Brian 114
Grobusch, Martin 126
Gubler, Duane 36, 107
Gutteridge, Win 49, 79A

H

Haag, Karen 98
Hailemariam, Afework 41
Hajduk, Stephen 16
Haldar, Kasturi 55, 127
Halstead, Scott 102
Hamer, Davidson Late Breakers in Clinical Tropical Medicine, 128
Hanson, Kara 65
Haq, Cynthia 60
Harn, Donald 92, 169
Harnett, William 99
Harrington, Laura 79
Hartman, Amy 70
Haynes, John 58
Haynes, Richard 106
Heise, Mark 70
Heisler, Michael 60
Hemphill, Andrew 98
Hendricks, Joan 107
Hentschel, Christopher 2A, 100
Herwaldt, Barbara Late Breakers in Clinical Tropical Medicine
Higgins, James 131
Higgs, Stephen Plenary Session I, 79
Hightower, Allen 145
Hill, Kent 34
Hills, Susan 160
Hillyer, George 48, Plenary Session IV
Hillyer, Julian 77
Hira, Parsotam 159
Hoffman, Stephen 103
Hoffman, Risa 79, 129
Hosseinipour, Mina 118, 129
Hotez, Peter Plenary Session I, 7, 136
Haupt, Eric 64
Hugo, Leon 149
Hunter, Chris 55
Hurtado, Rocio 43
Huygen, Kris 136
Huynh, Chuong 78, 130

Innis, Bruce 139

Speaker and Session Chair Index for Plenary, Symposium, Meet the Professors and Mid-Day Sessions

Important Note: The number(s) following name refers to the session number.

J

Jackson, Scott 29
Jacobs-Lorena, Marcelo 47
Jacobson, Julie 102
Jaimovich, David 133
Jeronimo, Selma 61
Jha, Tara 113
Johnson, Barbara 160
Joyce, M. Patricia 136

K

Kabatereine, Narcis 7, 66
Kachani, Malika 9
Kahn, Laura 107
Kamat, Vinay 138
Kamau, Luna 154
Kamhawi, Shaden 90
Kappe, Stefan Late Breakers in
Basic Science/Molecular Biology
Karanja, Diana 66, 119
Kaur, Harparkash 116
Kazura, James 32
Keiser, Jennifer 123
Kern, Peter 73, 98
Keystone, Jay 81
Khan, Imtiaz 158
Kiang, Richard 58
Kihara, Jimmy 66
Killeen, Gerard 105, 110, 164
King, Charles 88
King, Lonnie 107
Kitron, Uriel 3, 46
Klugman, Keith 115
Kosoy, Michael 51
Kotloff, Karen 117
Kovarik, Carrie 72
Kramer, Laura 108, 168
Krause, Peter 46, 56
Ksiazek, Thomas Plenary Session I,
135, 145, 153
Kumar, Ashwani 110
Kumar, Sanjeev 140
Kumar, Nirbhay 47, 161
Kuritsky, Joel 139
Kurtis, Jonathan 52
Kweku, Margaret 114
Kwiatkowski, Dominic 14
Kyle, Dennis 71, 111

L

Lammie, Patrick 152
Laney, Sandra 63
Lang, Jean 139
Lanzaro, Gregory 90
LaRocque, Regina 118, 129
Leahy, Michael 10
LeDuc, James Plenary Session I, 68
Lee, John 145

Leiby, David 56
Lell, Bertrand 11
Lengeler, Christian 59, 65, 80, 100
Lescano, Andres 50
Letson, Bill 139
Levine, Myron 117
Levy, Karen 25
Li, Guoqiao 106
Libel, Marlo 50
Libraty, Daniel 6
Lietman, Thomas 38
Lim, Matthew 124
Lindsay, Steve 164, 172
Linthicum, Kenneth 36, 46, 145,
155
Lok, James 150
Loukas, Alex 136
LoVerde, Philip 123, 141
Luckhart, Shirley 77
Lumsden, Joanne 45

M

Mabey, David 38
Macete, Eusebio 148
Machado, Paulo 72
Macklin, Ruth 13
MacLean, J. Dick 32A, 125
Madoff, Lawrence 50
Magill, Alan 2, 17, 95
Mahanty, Siddhartha 143
Mahr, Roger 107
Majambere, Silas 164
Makanga, Michael 2A
Mann, Barbara 146
Mannix, Frank 102
Marano, Nina 95
Marcus, Leonard 39
Margolis, Harold 139
Martin, Diana 158
Mas Coma, Santiago 48
Mather, Thomas 3
Matlashewski, Greg 142
Mbacham, Wilfred 69, 89
McCarthy, Anne 2, 27, 32A, 81,
82, 95, 133
McCollum, Andrea 147
McDowell, Mary Ann 90, 109
McGarvey, Stephen 20, 88
McGee, Charles 79
McGovern, Victoria 55, 79, 104,
118, 129
McKenzie, F. 105
McKerrow, James 37
McMahon-Pratt, Diane 158
McManus, Donald 20
Medana, Isabelle 87
Menendez, Clara 35
Mgone, Charles 19
Michel, Kristin 77
Miesfeld, Roger 149
Mileno, Maria 8

Milhous, Wilbur 127
Miller, Scott 17
Millum, Joseph 26
Milner, Danny 118, 129
Mintz, Eric 12
Miti, Simon 41
Mohrs, Markus 74
Monath, Thomas 107
Montes, Martin 125, 150
Montgomery, Susan 88
Moore, Matthew 112
Mosser, David 16
Murithi, R.M. 135
Muro, Antonio 48
Mutonga, David 135
Mwanakasale, Victor 66
Myler, Peter 151

N

Nachega, Jean 43, 128
Nahlen, Bernard 41
Nataro, James 117
Ndao, Momar 56
Ndip, Lucy 171
Newman, Robert 126
Newton, Paul 116
N'Fale, Sagnon 154
Njau, Joseph 89
Njenga, M. Kariuki 145
Nolan, Thomas 125
Norton, Scott 72
Nosten, Francois 69
Novak, Robert 164
Nunes, Márcio 153
Nutman, Thomas 99
Nwaka, Solomon 93

O

Oakley, Miranda 162
Obrist, Brigit 138
Odhiambo, Frank 126
Ogundahunsi, Olumide 154
Ogutu, Bernhards 2A
Oliveira, Guilherme 141
Olsen, Sonja 112
Ooi, Winnie 72
Ortigao, Marcelo 90
Osei-Atweneboana, Mike 76
Ottesen, Eric 152
Ouedraogo, Jean Bosco 137
Ouellette, Marc 151

P

Painter, Heather 67
Panosian, Claire Plenary Session I,
10, 79
Papadopoulou, Barbara 34
Patterson, Amy 138

Paul, Michael 39
Pearce, Edward 74, 165
Peeling, Rosanna 33, 119
Peñataro-Yori, Pablo 125
Perkins, Mark 33
Petersen, Christine 44
Petri, William 103
Piazza, Franco 142
Pierce, Mark 97
Pinzon, Jorge 58
Plançon-Lecadre, Aline 116
Plowe, Christopher Plenary Session
I, 14, 71, 127
Politis, Alexander 132
Pollack, Richard 36, 39
Powell, Jeffrey 47
Powers, Ann 153
Preve, Ricardo 31, 104A
Price, Ric 62, 71
Pugh, John 132

R

Rabinovich, Regina 29, 68, 103
Ramesh, Manish 143
Ramzy, Reda 152
Ranson, Hilary 154
Reed, Christie 28, 133, 138A
Reed, Steven 126A, 142
Reeder, Maurice 30
Renshaw, Melanie 29, 41
Ribeiro, Isabela 26
Richards, Frank 10
Rico-Hesse, Rebeca Plenary Session
I, Late Breakers in Basic
Science/Molecular Biology
Riley, Steven 20
Robich, Rebecca 120
Rodriguez, Ana 96
Rodriguez, Isabel 61
Roostenberg, Meta 97
Rogers, Martin John 132
Rohde, Gitte 66
Rubenstein, Arthur 107
Rubins, Kate 155
Ryan, Edward Plenary Session I, 2,
Plenary Session IV
Ryan, Peter 3

S

Sabeti, Pardis 5
Sack, David Plenary Session II
Sajan, Nayomi 8
Salgame, Padmini 99
Salmón-Mulanovich, Gabriela 50
Salvo, Calogero 131
Sam-Agudu, Nadia 29, 121
Sang, Rosemary 135
Sasi, Philip 2A
Saul, Allan 126A
Savarese, Barbara 148

Speaker and Session Chair Index for Plenary, Symposium, Meet the Professors and Mid-Day Sessions

Important Note: The number(s) following name refers to the session number.

Sayed, Ahmed 123
Schantz, Peter 39
Schofield, Steve 82
Schwabe, Chris 65
Schwartz, Eli 17
Scott, Phillip 74
Scott, Thomas 105
Secor, W. Evan 165
Sedegah, Martha 35
Seder, Robert 126A
Selkirk, Murray 5
Shah, Seema 26
Sharp, Trueman 124
Shililu, Josephat 164
Shoemaker, Charles 86
Shresta, Sujan 6
Sibley, Carol 71
Siegel, Cathi 32
Silberner, Joanne 10
Simmons, Cameron 18
Sina, Barbara 118
Sinden, Robert 47
Singh, Upinder 169
Sinha, Prabhat 113
Skarbinski, Jacek 59
Skelly, Patrick 52
Slatko, Barton 24
Smith, Thomas 80
Smith, David 105
Smith, Darc 168
Sobsey, Mark 25
Solomon, Tom 120, 160, 167
Song, Jianping 106
Sousa, Anastacio 167
Sow, Samba 51, 117
Spear, Robert 20
Spithill, Terry 48
Spring, Michele 97
Srikiatkachorn, Anon 83
Stager, Simona 158
Steketee, Richard 100, Plenary Session IV
Stevenson, Mary 99
Stins, Monique 87
Stok, Edita 124
Stolk, Wilma 76, 152
Stratton, Jennifer 8
Strickman, Daniel 40
Strode, Clare 84
Su, Xinzhou 14
Suaya, Jose 139
Sueker, J. Jeremy 124
Sullivan, David 87
Sun, Wellington 57
Sundar, Shyam 61, 113, 119

T

Takala, Shannon 11
Talisuna, Ambrose 54, 69, 100
Tanner, Marcel 80, 123
Tanowitz, Herbert 16

Tarleton, Rick 31, 37, 74, 104A
Taylor, Terrie Plenary Session I
Taylor, Walter 75
Tekwani, Babu 111
Telford, Sam 15, 36, 46
ter Kuile, Feiko 19
Terrazas, Luis 92
Tesh, Robert Plenary Session II, 153
Thakur, Chandreshwar 113
Thera, Mahamadou 97
Thompson, Andrew 98
Thuma, Philip 54, 122
Tiono, Alfred 101
Torgerson, Paul 9
Torres, Paola 12
Troutt, H. Fred 107
Tsai, Theodore 102
Tsuboi, Takafumi 23
Tucker, Compton 58
Turell, Michael 46

U

Unnasch, Thomas 24
Urbina, Julio 37
Urdaneta, Ludmel 166
Utzinger, Juerg 52, 88, 123

V

Vaidya, Akhil 127
Valderramos, Stephanie 137
van der Heyde, Henri 87
Vanderberg, Jerome 22
Vasconcelos, Pedro 153
Vennerstrom, Jonathan 123
Verástegui, Emma 13
Villafana, Tonya 26
Vinetz, Joseph Plenary Session I, 32
Volkman, Sarah 5, 14, 29, 79, 96, 103
Vosshall, Leslie 40

W

Waitumbi, John 45
Walker, Edward Plenary Session I
Walker, David 15
Walker, Patricia 138A
Walther, Michael 121
Wang, Anna 19, 93
Wang, Xinhua 106
Ward, Brian 56
Watts, Douglas Plenary Session I, 70
Webster, Joanne 7, 20
Weil, Gary 152
Weina, Peter 95
Wellems, Thomas 106
West, Sheila 38
White, A. Clinton 21, 125
White, Nicholas 71, 93, 116

Widdowson, Marc-Alain 112
Wikel, Stephen 79
Williams, Steven 24, 161
Williams, David 123, 141
Wilson, Mary 27
Wilson, Mary 16, 34, 86, 61, 151
Wilson, Mark 46, 157
Wirth, Dyann 14, 103
Wise de Valdez, Megan 84
Woodall, Jack 79
Worrall, Eve 172
Wynn, Thomas 42, 99

X

Xiaonong, Zhou 52

Y

Yabsley, Michael 157
Yaich, Mansour 160
Yamada, Tadataka Plenary Session I
Yao, Chaoqun 151
Yoksan, Sutee 119
Yoshino, Timothy 165
Yukich, Joshua 65
Yuthavong, Yongyuth 49

Z

Zaki, Sherif 83
Zavala, Fidel 158
Zikusooka, Charlotte 54
Zimmerman, Peter Plenary Session I, 79
Zwiebel, Laurence 40



ASTMH MEMBERSHIP APPLICATION

Join online at
www.astmh.org.

Yes, I wish to join ASTMH as a:

- Regular Member
 Life Member
 Pre-Doctoral Student Member
 Affiliate Member
 Post-Doctoral Student Member

FIRST NAME (GIVEN NAME) _____ LAST NAME (FAMILY NAME) _____ DEGREES _____

COMPANY/ORGANIZATION _____

DEPARTMENT _____

MAILING ADDRESS _____

CITY _____ STATE _____ POSTAL CODE _____ COUNTRY _____

TELEPHONE _____ FAX _____ E-MAIL _____

DUES FOR CALENDAR YEAR

(January through
December)

- Regular Membership\$195
 Student Membership (check one)
 ___ Pre-Doctoral Student\$65
 ___ Post-Doctoral Student.....\$95
 Life Membership\$3,900
 Affiliate Membership
 ___ Patron(\$5,000 or more) \$ _____
 ___ Donor(\$1,000 – \$4,999) \$ _____
 ___ Contributor(\$500 – \$999) \$ _____
 ACAV Voluntary Dues (American Committee on Arthropod-Borne Viruses)\$5
 ACMCIP Dues (Molecular, Cellular and Immunoparasitology Group)\$10
 ACME Voluntary Dues (American Committee of Medical Entomology)\$5
 Clinical Group Dues (ACCTMTH)\$30
 Clinical Group Life Membership\$600
 Voluntary Contribution to
 Ben Kean Fellowship Fund \$ _____
 Centennial Fund \$ _____
 Shope Fellowship Fund \$ _____
 General Fund \$ _____
 Total Enclosed \$ _____

Check all that apply:

EMPLOYMENT

- A Academic P Private Practice
 G Government R Retired
 (non-military)
 I Industry O Other
 M Military

INTERESTS

- B Bacteria P Protozoa
 C Clinical Tropical V Virology
 Medicine
 E Entomology O Other
 H Helminths

PRINCIPAL PROFESSIONAL ACTIVITIES

- A Administration R Research
 C Clinical T Teaching
 P Prevention and Control

FOR CLINICAL CONSULTANTS ONLY

- C Clinical T Travelers' Health
 I Immunizations Y Yellow Fever
 P Parasitology Diagnostic Laboratory

DO YOU HAVE OVERSEAS OPPORTUNITIES AVAILABLE FOR TRAINEES?

- Yes No Possibly
 C Clinical L Lab Research
 F Field Studies O Other

AM07

PAYMENT

- Check enclosed. AMEX VISA MasterCard

CARD # _____ EXPIRATION DATE _____

SIGNATURE OF CARDHOLDER _____

NAME OF CARDHOLDER _____

Full payment must accompany this application. All checks must be made in U.S. dollars, drawn on U.S. banks. U.S. postal money orders, U.S. travelers checks, American Express, VISA or MasterCard will also be accepted.

Dues are billed on a calendar year basis.

Contributions and gifts to ASTMH may be deductible as charitable contributions for federal income tax purposes. Dues payments may be deductible by members as an ordinary and necessary business expense. Consult your tax advisor for further information. The ASTMH federal tax I.D. number is 57-0408245.

SEND TO

American Society of Tropical Medicine and Hygiene
 P.O. Box 71482 • Chicago, IL 60694-1482
 847/480-9592 • FAX: 847/480-9282 • info@astmh.org • www.astmh.org

TO QUALIFY FOR SPECIAL STUDENT RATES,

complete the following or attach a registrar's letter as proof of full-time student status.

This is to certify that

NAME OF APPLICANT _____

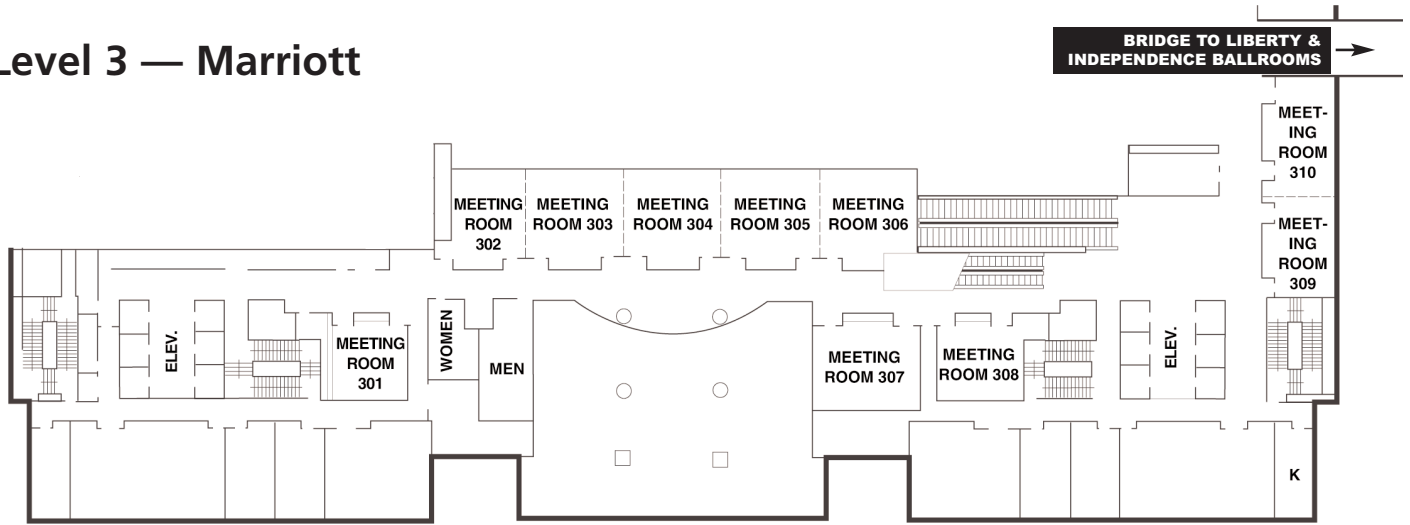
is a full-time student at:

NAME OF INSTITUTION _____

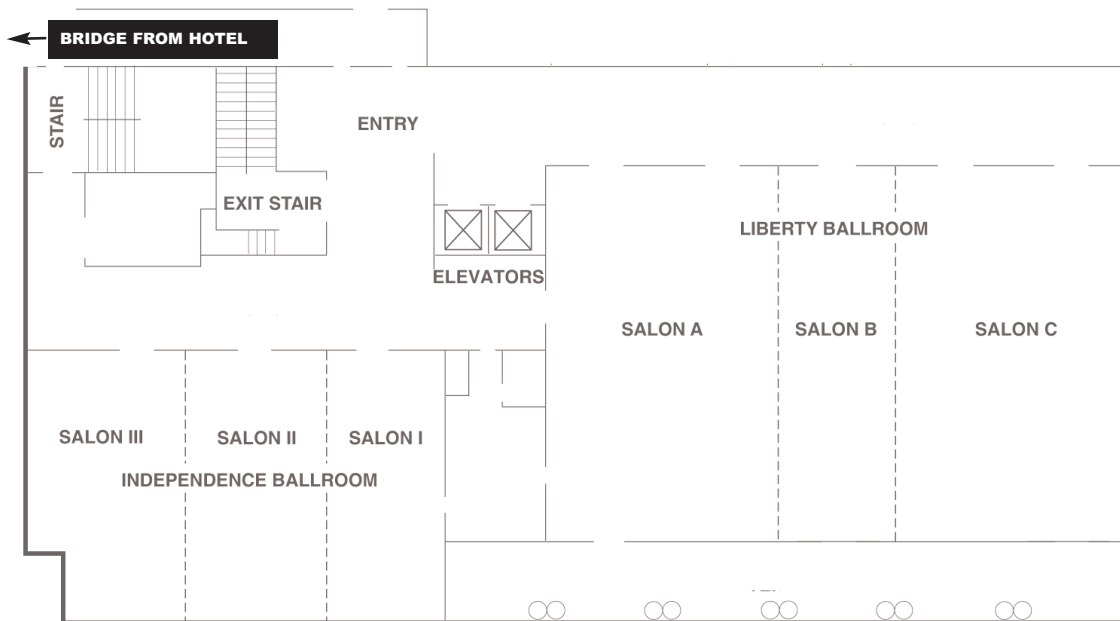
SIGNATURE OF DEAN OR DEPARTMENT CHAIR _____ DATE _____

HOTEL FLOORPLAN

Level 3 — Marriott

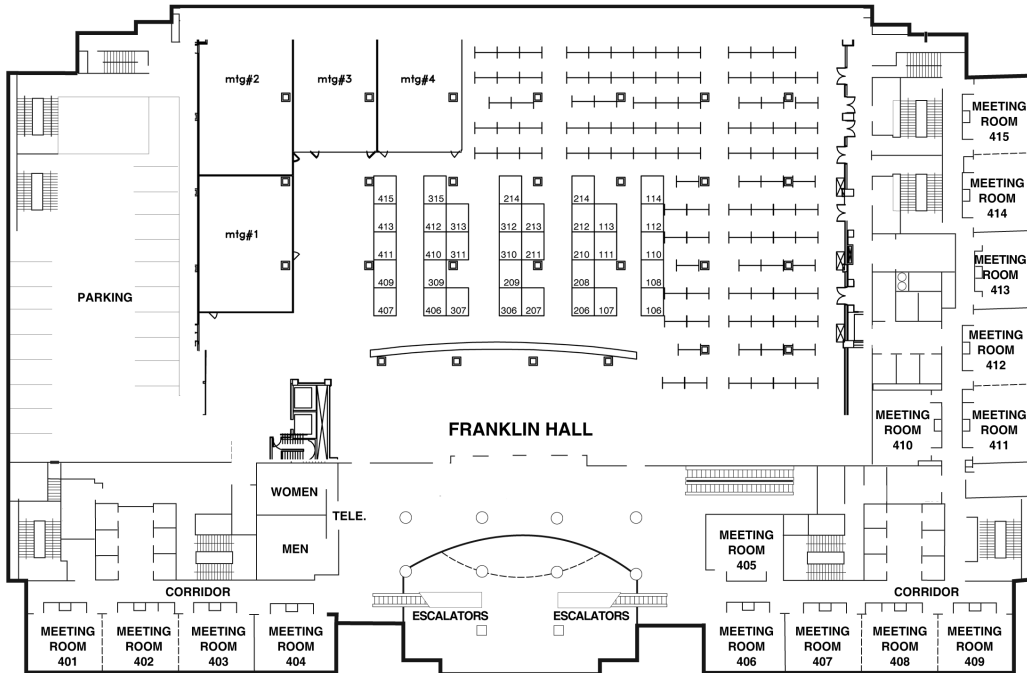


Level 3 — Meeting Rooms Across Bridge



HOTEL FLOORPLAN

Level 4



Level 5

